

Engine Model:
3013C (C1.5)

Engine Desc:
NATURALLY
ASPIRATED

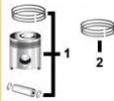
Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.3 in /
84.00 mm
Stroke: 3.5 in /
90.00 mm
Displacement:
91 in³ / 1.496
Lt

Please see
page 558 for a
complete list of
equipment
models.



- 1) **Engine O/H Kit**
 - › BOK525 Std.
 - › BOK526 0.50
- 2) **Basic Engine Kit**
 - › BBK525 Std.
 - › BBK526 0.50
 - › Spec Sheet - 3024C



- 1) **Piston & Ring Kit**
 - › B293-5884 Std.
 - › B293-5884B 0.50
- 3 **Per Engine**
- 2) **Ring Set**
 - › B154-0943 Std.
 - › B154-0943B 0.50



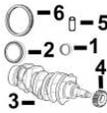
- Main Bearing Set**
 - › B156-6977 Std.
 - › B161-2628 0.010
 - › B161-2629 0.020
- Set of 3 Pairs**



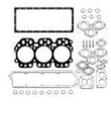
- Con Rod Bearing Set**
 - › B156-6978 Std.
 - › B161-2630 0.010
 - › B161-2631 0.020
- Set of 3 Pairs**



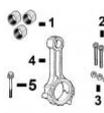
- 1) **Thrust Washer**
 - › B154-1231 Std.
- Set of 2 Pcs**
- 2) **Crank Bushing**
 - › B294-4916 Std.
 - › B302-4181 0.010
 - › B302-4182 0.020



- 1) **Front Seal**
 - › B154-1675
- 2) **Rear Seal**
 - › B156-6973
- 3) **Crankshaft**
 - › B235-6967
- 4) **Crankshaft Gear**
 - › B308-1853
- 5) **Key, Crank Gear**
 - › B153-5518
- 6) **Flywheel Ring Gear**
 - › B156-6960 109T
 - › B154-2405 126T



- 1) **O/H Gasket Set**
 - › B155-8078
- 2) **Cylinder HD Gsk**
 - › B218-8537
- 3) **Oil Pan Gasket**
 - › B215-2604



- 1) **Bush, Con Rod**
 - › B154-0869 x3
- 2) **Bolt, Con Rod**
 - › B154-0870 x6
- 3) **Nut, Con Rod**
 - › B154-0871 x6
- 4) **Connecting Rod**
 - › B156-6980
- 5) **Head Bolt**
 - › B156-6988 x11
 - › B156-6989 x3



- 1) **Tappet**
 - › B154-1249



- 1) **Seal, Valve Intake**
 - › B153-5559 x3
- 2) **Seal, Valve Ex**
 - › B153-5554 x3

- Valve Train Kit**
 - › BVTK559

- 1) **Valve, Intake**
 - › B156-6985 x3
- 2) **Valve, Exhaust**
 - › B156-6986 x3

- 3) **Spring, Valve**
 - › B190-3748 x6
- 4) **Retainer, Valve Spring**
 - › B153-5557 x6

- 5) **Lock, Valve**
 - › B153-5556 x12



- 1) **Oil Pump**
 - › B297-3050
 - › B339-3017
- 2) **Oil Cooler**
 - › B245-1361



- 1) **Lift Pump**
 - › B176-7712
- 2) **Thermostat**
 - › B251-7660
- 3) **Atomiser**
 - › B252-1446
- 4) **Fuel Water Separator**
 - › B276-1804



- 1) **Water Pump**
 - › B311-0053
- 2) **Gasket, W Pump**
 - › B303-0307



- 1) **Repair Sleeve**
 - › 84RS
- 2) **Cylinder Head**
 - › B431-5040UF
 - › B540-0594UF



- Glowplug**
 - › B172-4585 x3

(1): 1.4mm Thickness.

(3): Use with engines that are turbocharged and/or have an oil cooler

(2): If ordering for tier 3 engine that has a 2 bolt auxiliary drive front cover, also orde

(4): Use with engines that are non-turbo

Engine Model:
3013C (C1.7)

Engine Desc:
NATURALLY ASPIRATED

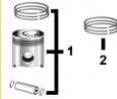
Engine Data:
C1.7

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement:
101.4 in3 / 1.662 Lt



- 1) Engine O/H Kit**
 , BOK540 Std.
 , BOK541 0.50
2) Basic Engine Kit
 , BBK540 Std.
 , BBK541 0.50
 , Spec Sheet - 3024C



- 1) Piston & Ring Kit**
 , B297-3080 Std.
 , B297-3080B 0.50
3 Per Engine
2) Ring Set
 , B154-0943 Std.
 , B154-0943B 0.50



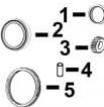
- Main Bearing Set**
 , B156-6977 Std.
 , B161-2628 0.010
 , B161-2629 0.020
Set of 3 Pairs



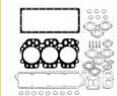
- Con Rod Bearing Set**
 , B156-6978 Std.
 , B161-2630 0.010
 , B161-2631 0.020
Set of 3 Pairs



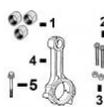
- 1) Thrust Washer**
 , B154-1231 Std.
Set of 2 Pcs
2) Crank Bushing
 , B294-4916 Std.
 , B302-4181 0.010
 , B302-4182 0.020



- 1) Front Seal**
 , B154-1675
2) Rear Seal
 , B154-0178
3) Crankshaft Gear
 , B308-1853
4) Key, Crank Gear
 , B153-5518
5) Flywheel Ring Gear
 , B156-6960 109T
 , B154-2405 126T



- 1) O/H Gasket Set**
 , B155-8078 **3**
2) Cylinder HD Gsk
 , B218-8537 **1**
3) Oil Pan Gasket
 , B215-2604



- 1) Bush, Con Rod**
 , B154-0869 x3
2) Bolt, Con Rod
 , B154-0870 x6
3) Nut, Con Rod
 , B154-0871 x6
4) Connecting Rod
 , B154-0867
5) Head Bolt
 , B156-6988 x11
 , B156-6989 x3



- 1) Tappet**
 , B154-1249



- 1) Seal, Valve Intake**
 , B153-5559 x3
2) Seal, Valve Ex
 , B153-5554 x3

Valve Train Kit
 , BVTK560

- 1) Valve, Intake**
 , B156-6985 x3
2) Valve, Exhaust
 , B156-6986 x3

- 3) Spring, Valve**
 , B153-5558 x6
4) Retainer, Valve Spring
 , B153-5557 x6

5) Lock, Valve
 , B153-5556 x12



- 1) Oil Pump**
 , B297-3050
 , B339-3017
2) Oil Cooler
 , B245-1361



- 1) Lift Pump**
 , B176-7712
2) Thermostat
 , B251-7660
3) Atomiser
 , B252-1446



- 1) Water Pump**
 , B311-0053 **2**
 , B439-4992 **2**
2) Gasket, W Pump
 , B303-0307



Repair Sleeve
 , 84RS



Glowplug
 , B172-4585 x3

(1): 1.4mm Thickness.
 (3): If ordering for tier 3 engine that has a

(2): Check Application for proper use.

Engine Model: 3014	Engine Desc: NATURALLY ASPIRATED	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.3 in / 84.00 mm Stroke: 3.54 in / 90.00 mm Displacement: 122 in3 / 1.995 Lt
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Engine Arrangement

140-3556

196-0205

Vibratory Compactors

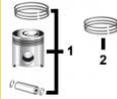
CB-334D

CB-335D



Basic Engine Kit

- › BBK3014 Std
- › BBK3015 0.50
- › Spec Sheet - 3024C



1) Piston & Ring Kit

- › B293-5884 Std.
- › B293-5884B 0.50

4 Per Engine

2) Ring Set

- › B154-0943 Std. **(1)**
- › B154-0943B 0.50 **(1)**



Main Bearing Set

- › B154-1203 Std.
- › B161-7163 0.010
- › B161-7164 0.020

Set of 4 Pairs



Con Rod Bearing Set

- › B146-7808 Std.
- › B307-9855 0.010
- › B307-9856 0.020

Set of 4 Pairs



1) Thrust Washer

- › B154-1230/31 Std.

Set of 3 Pcs

2) Crank Bushing

- › B294-4916 Std.
- › B302-4181 0.010
- › B302-4182 0.020

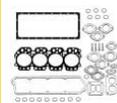


1) Front Seal

- › B154-1675

2) Rear Seal

- › B156-6973



1) O/H Gasket Set

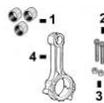
- › B3014OG

2) Head Gasket

- › B160-3532

3) Oil Pan Gasket

- › B215-2605



1) Bush, Con Rod

- › B154-0869 x4

2) Bolt, Con Rod

- › B154-0870 x8

3) Nut, Con Rod

- › B154-0871 x8

4) Con Rod

- › B156-6980



1) Tappet

- › B154-1249



1) Seal, Valve Intake

- › B153-5559 x4

2) Seal, Valve Ex

- › B153-5554 x4

Valve Train Kit

- 1) Valve, Intake**
- 2) Valve, Exhaust**

3) Spring, Valve

- › B153-5558 x8

4) Retainer, Valve Spring

5) Lock, Valve

- › B153-5556 x16



1) Oil Pump

- › B297-3050

2) Oil Cooler

- › B245-1361



1) Lift Pump

- › B176-7712

2) Thermostat

- › B251-7660

3) Atomiser

- › B252-1446



1) Water Pump

- › B311-0053

2) Gasket, W Pump

- › B303-0307



Repair Sleeve

- › 84RS



1) Glowplug

- › B172-4585 x4

2) Oil Pressure Switch

- › B153-6617

3) Water Temp Sensor

- › B176-7705

(1): Contains 3MM wide oil control ring

(2): Under development, not included in Valve Train Kit.

(3): Not included in Valve Train Kit.

Engine Model:
3024/C

Engine Desc:
NATURALLY
ASPIRATED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in /
84.00 mm
Stroke: 3.9 in /
100.00 mm
Displacement:
134 in3 / 2.216
Lt

Please see
page 559 for a
complete list of
equipment
models.



1) Engine O/H Kit

- › BOK536 Std.
- › BOK537 0.50

2) Basic Engine Kit

- › BBK536 Std.
- › BBK537 0.50
- › Spec Sheet - 3024C



1) Front Seal

- › B154-1675

2) Rear Seal

- › B154-0178

3) Crankshaft

- › B308-1852

4) Crankshaft Gear

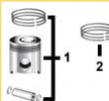
- › B308-1853

5) Key, Crank Gear

- › B153-5518

6) Flywheel Ring Gear

- › B154-2405 126T



1) Piston & Ring Kit

- › B297-3080 Std.
- › B297-3080B 0.50

4 Per Engine

2) Ring Set

- › B154-0943 Std.
- › B154-0943B 0.50



Main Bearing Set

- › B154-1203 Std.
- › B161-7163 0.010
- › B161-7164 0.020

Set of 4 Pairs



Con Rod Bearing Set

- › B146-7808 Std.
- › B307-9855 0.010
- › B307-9856 0.020

Set of 4 Pairs



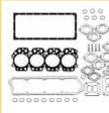
1) Thrust Washer

- › B154-1230/31 Std.

Set of 3 Pcs

2) Crank Bushing

- › B294-4916 Std.
- › B302-4181 0.010
- › B302-4182 0.020



1) O/H Gasket Set

- › B164-8900

2

2) Cylinder HD Gsk

- › B311-1685

3) Seal Rocker

- › B217-2752

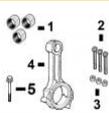
1

4) Seal, Cyl HD Cov

- › B233-0695

5) Oil Pan Gasket

- › B215-2605



1) Bush, Con Rod

- › B154-0869 x4

2) Bolt, Con Rod

- › B154-0870 x8

3) Nut, Con Rod

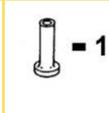
- › B154-0871 x8

4) Connecting Rod

- › B154-0867

5) Head Bolt

- › B156-6988 x14
- › B156-6989 x4



1) Tappet

- › B154-1249



1) Seal, Valve Intake

- › B153-5559 x4

2) Seal, Valve Ex

- › B153-5554 x4

Valve Train Kit

- › BVTK558

1) Valve, Intake

- › B154-0888 x4

2) Valve, Exhaust

- › B154-0889 x4

3) Spring, Valve

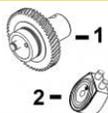
- › B153-5558 x8

4) Retainer, Valve Spring

- › B153-5557 x8

5) Lock, Valve

- › B153-5556 x16



1) Oil Pump

- › B297-3050

2) Oil Cooler

- › B245-1361



1) Lift Pump

- › B176-7712

2) Thermostat

- › B251-7660

3) Atomiser

- › B252-1446

4) Fuel Water Separator

- › B276-1804



1) Water Pump

- › B311-0053

2) Gasket, W Pump

- › B303-0307



1) Glow Plug

- › B172-4585 x4

2) Cylinder Head

- › B217-1481UF

3) Repair Sleeve

- › 84RS



Fuel Lines

- › 1) B217-2760

- › 2) B217-2761

- › 3) B217-2762

- › 4) B217-2763

3

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853, (.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
 (2): Does not include Crankshaft Oil Seals
 (3): Bare head. Check application for proper usage.

Engine Model:

3024C/T

Engine Desc:

TURBOCHARGE

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134 in³ / 2.216 Lt

Please see page 560 for a complete list of equipment models.

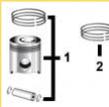


1) Engine O/H Kit

- BOK538 Std.
- BOK539 0.50

2) Basic Engine Kit

- BBK538 Std.
- BBK539 0.50
- Spec Sheet - 3024C



1) Piston & Ring Kit

- B270-6968 Std.
- B270-6968B 0.50

4 Per Engine

2) Ring Set

- B270-6970 Std.
- B270-6970B 0.50



Main Bearing Set

- B154-1203 Std.
- B161-7163 0.010
- B161-7164 0.020

Set of 4 Pairs



Con Rod Bearing Set

- B146-7808 Std.
- B307-9855 0.010
- B307-9856 0.020

Set of 4 Pairs



1) Thrust Washer

- B154-1230/31 Std.

Set of 3 Pcs

2) Crank Bushing

- B294-4916 Std.
- B302-4181 0.010
- B302-4182 0.020



1) Front Seal

- B154-1675

2) Rear Seal

- B154-0178

3) Crankshaft

- B308-1852

1

4) Crankshaft Gear

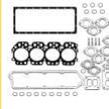
- B308-1853

5) Key, Crank Gear

- B153-5518

6) Flywheel Ring Gear

- B154-2405 126T



1) O/H Gasket Set

- B3024TOG

4

2) Cylinder HD Gsk

- B311-1685

3) Seal Rocker

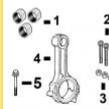
- B217-2752

4) Seal, Cyl HD Cov

- B233-0695

5) Oil Pan Gasket

- B215-2605



1) Bush, Con Rod

- B154-0869 x4

2) Bolt, Con Rod

- B154-0870 x8

3) Nut, Con Rod

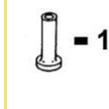
- B154-0871 x8

4) Connecting Rod

- B154-0867

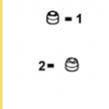
5) Head Bolt

- B156-6988 x14
- B156-6989 x4



1) Tappet

- B154-1249



1) Seal, Valve Intake

- B153-5559 x4

2) Seal, Valve Ex

- B153-5554 x4

Valve Train Kit

- BVTK558

1) Valve, Intake

- B154-0888 x4

2) Valve, Exhaust

- B154-0889 x4

3) Spring, Valve

- B153-5558 x8

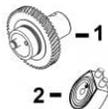
4) Retainer, Valve Spring

- B153-5557 x8

2

5) Lock, Valve

- B153-5556 x16



1) Oil Pump

- B297-3050

2) Oil Cooler

- B245-1361



1) Lift Pump

- B176-7712

2) Thermostat

- B251-7660
- B249-5541

3) Atomiser

- B252-1446

4) Fuel Water Separator

- B276-1804



1) Water Pump

- B311-0053

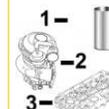
2) Gasket, W Pump

- B303-0307



1) Glowplug

- B172-4585 x4



Repair Sleeve

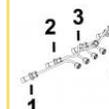
- 1) 84RS

2) Turbocharger

- B238-9349

3) Cylinder Head

- B236-5127UF



Fuel Lines

- 1) B217-2760
- 2) B217-2761
- 3) B217-2762
- 4) B217-2763

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853, (.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.

(3): Check application for proper usage.

(2): Not included in valve train kit.

(4): Does not include Crankshaft Oil Seals

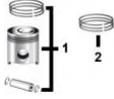
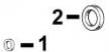
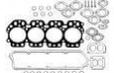
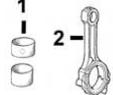
Engine Model:
3034C

Engine Data:
NATURALLY ASPIRATED
DIRECT INJECTION

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 97.00 mm Stroke: 100.00 mm

Please see page 561 for a complete list of equipment models.

 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> • BBK3034 Std. • BBK3035 0.50 • Spec Sheet - 3034 	 <p>1) Piston & Ring Kit</p> <ul style="list-style-type: none"> • B212-3677 Std. • B212-3678 0.50 <p>4 Per Engine</p> <p>2) Ring Set</p> <ul style="list-style-type: none"> • B153-1029 Std. • B171-4662 0.50 	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> • B152-6791 Std. • B152-6792 .25 • B152-6793 .50 • B152-6794 .75 <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> • B173-1272 Std. • B173-1273 .25 • B173-1274 .50 • B173-1275 .75 <p>Set of 4 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> • B152-6799 <p>Set of 2 Pcs</p>
 <p>1) Front Seal</p> <ul style="list-style-type: none"> • B152-6739 <p>2) Rear Seal</p> <ul style="list-style-type: none"> • B152-6556 	 <p>1) Head Gasket Set</p> <ul style="list-style-type: none"> • B153-1217 <p>2) Lower Gasket Set</p> <ul style="list-style-type: none"> • B173-1339 <p>3) Cylinder Head Gasket</p> <ul style="list-style-type: none"> • B152-9864 <p>4) Oil Pan Gasket</p> <ul style="list-style-type: none"> • B202-0920 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> • B188-8543 x4 <p>2) Connecting Rod</p> <ul style="list-style-type: none"> • B201-9885 (2) <p>3) Rod Capscrew</p> <ul style="list-style-type: none"> • B201-9887 (2) 	 <p>1) Tappet</p> <ul style="list-style-type: none"> • B176-0633 x8 	
<p>Valve Train</p>	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> • B188-8640 x4 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> • B152-9857 x4 	<p>3) Guide, Valve</p> <ul style="list-style-type: none"> • B188-8633 x8 <p>4) Spring, Valve</p> <ul style="list-style-type: none"> • B152-9858 x8 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> • B152-9860 x16 <p>6) Seal, Valve</p> <ul style="list-style-type: none"> • B192-6335 x8 	
 <p>1) Oil Pump</p> <ul style="list-style-type: none"> • B173-0141 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> • B245-1361 <p>3) Fuel Transfer Pump</p> <ul style="list-style-type: none"> • B153-0488 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> • B153-0164 <p>2) Thermostat</p> <ul style="list-style-type: none"> • B251-9336 	 <p>Glowplug</p> <ul style="list-style-type: none"> • B177-7559 x4 		

(1): Check application for proper use

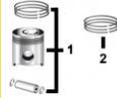
(2): Fractured style rod cap

Engine Model: 3034T	Engine Desc: Turbocharged	Engine Data: TURBOCHARGED DIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 97.00 mm Stroke: 100.00 mm
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Engine Arrangement		Multi Terrain Loader		Skid Steer	
147-1234	159-9214	267 287	277	236 246 248	252 262



Basic Engine Kit
 , BBK3036 Std.
 , BBK3037 0.50
 , Spec Sheet - 3034



1) Piston & Ring Kit
 , B173-1263 Std.
 , B173-1263B 0.50
4 Per Engine
2) Ring Set
 , B153-1029 Std.
 , B171-4662 0.50



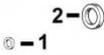
Main Bearing Set
 , B152-6791 Std.
 , B152-6792 .25
 , B152-6793 .50
 , B152-6794 .75
Set of 5 Pairs



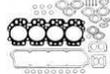
Con Rod Bearing Set
 , B173-1272 Std.
 , B173-1273 .25
 , B173-1274 .50
 , B173-1275 .75
Set of 4 Pairs



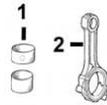
Thrust Washer
 , B152-6799
Set of 2 Pcs



1) Front Seal
 , B152-6739
2) Rear Seal
 , B152-6556



1) Head Gasket Set
 , B173-1340
2) Lower Gasket Set
 , B173-1339
3) Cylinder Head Gasket
 , B152-9864
4) Oil Pan Gasket
 , B202-0920



1) Bush, Con Rod
 , B188-8543 x4
2) Connecting Rod
 , B201-9885 (2)
3) Rod Capscrew
 , B201-9887 (2)



1) Tappet
 , B176-0633 x8

Valve Train

1) Valve, Intake
 , B188-8640 x4
2) Valve, Exhaust
 , B152-9857 x4

3) Guide, Valve
 , B188-8633 x8
4) Spring, Valve
 , B152-9858 x8

5) Lock, Valve
 , B152-9860 x16
6) Seal, Valve
 , B192-6335 x8



1) Oil Pump
 , B173-0141
2) Oil Cooler
 , B245-1361
3) Fuel Transfer Pump
 , B153-0488



1) Water Pump
 , B173-1282
2) Thermostat
 , B4W-8063



1) Glowplug
 , B177-7559 x4
2) Turbocharger
 , B173-0442 (1)

(1): Check application for proper use

(2): Fractured style rod cap

Engine Model: 3044C	Engine Desc: C3.4	Engine Data: INDUSTRIAL ENGINE NATURALLY ASPIRATED INDIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm Piston Compression Height: 2.165 in / 55 mm
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3044C Engine Arrangement

234-2179	234-2181
234-2180	235-3964

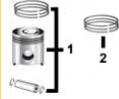
C3.4 Engine Arrangement

294-4451	455-3146
294-4452	459-8929
294-4470	



Basic Engine Kit

- › BBK3044 Std.
- › BBK3045 0.50
- › Spec Sheet - 3044C/T



1) Piston & Ring Kit

- › B239-8506 Std.
- › B239-8508 0.50

4 Per Engine

2) Ring Set

- › B226-8204 Std.
- › B238-8281 0.50



Main Bearing Set

- › B233-5486 Std.
- › B294-4890 0.010
- › B294-4891 0.020
- › B294-4892 0.030

Set of 5 Pairs



Con Rod Bearing Set

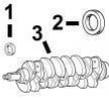
- › B238-8282 Std.
- › B238-8283 0.010
- › B238-8284 0.020
- › B238-8285 0.030

Set of 4 Pairs



Thrust Washer

- › B103-9288 Std
- Set of 3 Pairs**



1) Front Seal

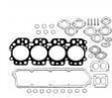
- › B239-8429

2) Rear Seal

- › B117-5015

3) Crankshaft

- › B234-4794



1) O/H Gasket Set

- › B3044COG

2) Cyl Head Gasket

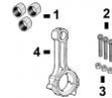
- › B330-4867

3) Valve Cover Gasket

- › B233-5483

4) Oil Pan Gasket

- › B393-4171
- › B3044OPG



1) Bush, Con Rod

- › B128-2958 x4

2) Bolt, Con Rod

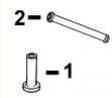
- › B128-2955 x8

3) Nut, Con Rod

- › B128-2956 x8

4) Con Rod Kit

- › B103-9680



1) Tappet

- › B103-9272 x8

2) Push Rod

- › B103-9273 x8

Valve Train

1) Valve, Intake

- › B233-5469 x4

2) Valve, Exhaust

- › B233-5470 x4

3) Guide, Valve

- › B103-9247 x8

4) Spring, Valve

- › B103-2782 x8

5) Lock, Valve

- › B51-7719 x16

6) Seal, Valve

- › B103-9260 x8

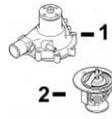


1) Oil Pump

- › B315-4678

2) Oil Cooler

- › B239-8512



1) Water Pump

- ›

2) Thermostat

- › B235-4960



Glowplug

- › B371-6702 x4



Fuel Pump

- › B232-5877

(1): Check application for proper use.

(2): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

(3): Crankshaft seals not included in gasket set. Order separately.

Engine Model:
3044CT

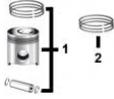
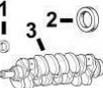
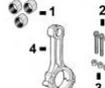
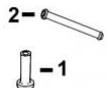
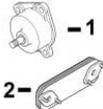
Engine Desc:
INDUSTRIAL ENGINE

Engine Data:
TURBOCHARGED
DIRECT INJECTION

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.7 in / 94.00 mm
Stroke: 4.72 in / 120.00 mm

Please see page 562 for a complete list of equipment models.

 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> › BBK3047 Std. › BBK3048 0.50 › Spec Sheet - 3044C/T 	 <p>1) Piston & Ring Kit</p> <ul style="list-style-type: none"> › B234-4814 Std. › B234-4816 0.50 <p>4 Per Engine</p> <p>2) Ring Set</p> <ul style="list-style-type: none"> › B226-8204 Std. › B238-8281 0.50 	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> › B233-5486 Std. › B294-4890 0.010 › B294-4891 0.020 › B294-4892 0.030 <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> › B238-8282 Std. › B238-8283 0.010 › B238-8284 0.020 › B238-8285 0.030 <p>Set of 4 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> › B103-9288 <p>Set of 3 Pcs</p>
 <p>1) Front Seal</p> <ul style="list-style-type: none"> › B239-8429 <p>2) Rear Seal</p> <ul style="list-style-type: none"> › B117-5015 <p>3) Crankshaft</p> <ul style="list-style-type: none"> › B234-4794 	 <p>1) O/H Gasket Set</p> <ul style="list-style-type: none"> › B341-3561 <p>2) Cyl Head Gasket</p> <ul style="list-style-type: none"> › B382-4468 <p>3) Valve Cover Gasket</p> <ul style="list-style-type: none"> › B233-5483 <p>4) Oil Pan Gasket</p> <ul style="list-style-type: none"> › B393-4171 › B3044OPG 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> › B128-2958 x4 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> › B128-2955 x8 <p>3) Nut, Con Rod</p> <ul style="list-style-type: none"> › B128-2956 x8 <p>4) Con Rod Kit</p> <ul style="list-style-type: none"> › B103-9680 	 <p>1) Tappet</p> <ul style="list-style-type: none"> › B103-9272 x8 <p>2) Push Rod</p> <ul style="list-style-type: none"> › B103-9273 x8 	
<p>Valve Train</p>	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> › B233-5469 x4 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> › B233-5470 x4 	<p>3) Guide, Valve</p> <ul style="list-style-type: none"> › B103-9247 x8 <p>4) Spring, Valve</p> <ul style="list-style-type: none"> › B103-2782 x8 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> › B51-7719 x16 <p>6) Seal, Valve</p> <ul style="list-style-type: none"> › B103-9260 x8 	
 <p>1) Oil Pump</p> <ul style="list-style-type: none"> › B315-4678 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> › B234-4803 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> › B235-4952 › B335-9117 <p>2) Thermostat</p> <ul style="list-style-type: none"> › B235-4960 	 <p>Glowplug</p> <ul style="list-style-type: none"> › B107-3659 x4 	 <p>Fuel Lines</p> <ul style="list-style-type: none"> › 1) B239-0719 › 2) B239-0720 › 3) B239-0721 › 4) B239-0722 	 <p>Fuel Pumps</p> <ul style="list-style-type: none"> › B232-5877

(1): Check application for proper use.

(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

Engine Model:
3044C/T

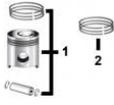
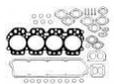
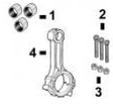
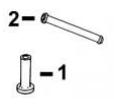
Engine Desc:
C3.4

Engine Data:
INDUSTRIAL ENGINE
TURBOCHARGED
DIRECT INJECTION

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.7 in / 94.00 mm
Stroke: 4.72 in / 120.00 mm

Please see page 563 for a complete list of equipment models.

 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> › BBK3050 Std. › BBK3051 0.50 › Spec Sheet - 3044C/T 	 <p>1) Piston & Ring Kit</p> <ul style="list-style-type: none"> › B314-9959 Std. › B314-9961 0.50 <p>4 Per Engine</p> <p>2) Ring Set</p> <ul style="list-style-type: none"> › B314-9962 Std. › B314-9963 0.50 	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> › B233-5486 Std. › B294-4890 0.010 › B294-4891 0.020 › B294-4892 0.030 <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> › B238-8282 Std. › B238-8283 0.010 › B238-8284 0.020 › B238-8285 0.030 <p>Set of 4 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> › B103-9288 <p>Set of 3 Pcs</p>
 <p>1) Front Seal</p> <ul style="list-style-type: none"> › B239-8429 <p>2) Rear Seal</p> <ul style="list-style-type: none"> › B117-5015 	 <p>1) O/H Gasket Set</p> <ul style="list-style-type: none"> › B341-3561 <p>2) Cyl Head Gasket</p> <ul style="list-style-type: none"> › B382-4468 <p>3) Valve Cover Gasket</p> <ul style="list-style-type: none"> › B233-5483 <p>4) Oil Pan Gasket</p> <ul style="list-style-type: none"> › B393-4171 › B3044OPG 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> › B128-2958 x4 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> › B128-2955 x8 <p>3) Nut, Con Rod</p> <ul style="list-style-type: none"> › B128-2956 x8 <p>4) Con Rod Kit</p> <ul style="list-style-type: none"> › B103-9680 	 <p>1) Tappet</p> <ul style="list-style-type: none"> › B103-9272 x8 <p>2) Push Rod</p> <ul style="list-style-type: none"> › B103-9273 x8 	
<p>Valve Train</p>	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> › B233-5469 x4 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> › B233-5470 x4 	<p>3) Guide, Valve</p> <ul style="list-style-type: none"> › B103-9247 x8 <p>4) Spring, Valve</p> <ul style="list-style-type: none"> › B103-2782 x8 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> › B51-7719 x16 <p>6) Seal, Valve</p> <ul style="list-style-type: none"> › B103-9260 x8 	
 <p>1) Oil Pump</p> <ul style="list-style-type: none"> › B315-4678 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> › B234-4803 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> › B335-9117 <p>2) Thermostat</p> <ul style="list-style-type: none"> › B235-4960 	 <p>Glowplug</p> <ul style="list-style-type: none"> › B107-3659 x4 	 <p>Fuel Lines</p> <ul style="list-style-type: none"> › 1) B239-0719 › 2) B239-0720 › 3) B239-0721 › 4) B239-0722 	 <p>Fuel Pump</p> <ul style="list-style-type: none"> › B232-5877

(1): Check application for proper use

(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

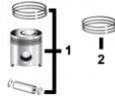
Engine Model: 3044C/T	Engine Desc: C3.4	Engine Data: INDUSTRIAL ENGINE TURBOCHARGED DIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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ESN CYM1-UP	Engine Arrangement 287-8073 332-8660 300-6603 342-1219 305-2571	Compact Track Loaders 259B3 279C2 289C2	Skid Steer 236B2 246C 236B3 252B 242B3 252B2	Wheel Loaders 906H 907H
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Basic Engine Kit

- BBK3069 Std.
- BBK3071 0.50
- Spec Sheet - 3044C/T



1) Piston & Ring Kit

- B315-4669 Std.
- B315-4671 0.50

4 Per Engine

2) Ring Set

- B314-9962 Std.
- B314-9963 0.50



Main Bearing Set

- B233-5486 Std.
- B294-4890 0.010
- B294-4891 0.020
- B294-4892 0.030

Set of 5 Pairs



Con Rod Bearing Set

- B238-8282 Std.
- B238-8283 0.010
- B238-8284 0.020
- B238-8285 0.030

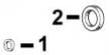
Set of 4 Pairs



Thrust Washer

- B103-9288

Set of 3 Pcs

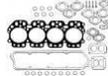


1) Front Seal

- B239-8429

2) Rear Seal

- B117-5015



1) O/H Gasket Set

- B341-3561

2) Cyl Head Gasket

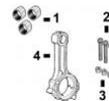
- B382-4468

3) Valve Cover Gasket

- B233-5483

4) Oil Pan Gasket

- B393-4171
- B3044OPG



1) Bush, Con Rod

- B128-2958 x4

2) Bolt, Con Rod

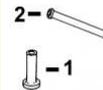
- B128-2955 x8

3) Nut, Con Rod

- B128-2956 x8

4) Con Rod Kit

- B103-9680



1) Tappet

- B103-9272 x8

2) Push Rod

- B103-9273 x8

Valve Train

1) Valve, Intake

- B233-5469 x4

2) Valve, Exhaust

- B233-5470 x4

3) Guide, Valve

- B103-9247 x8

4) Spring, Valve

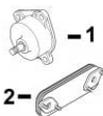
- B103-2782 x8

5) Lock, Valve

- B51-7719 x16

6) Seal, Valve

- B103-9260 x8



1) Oil Pump

- B315-4678

2) Oil Cooler

- B234-4803



1) Water Pump

- B335-9117

2) Thermostat

- B235-4960



Glowplug

- B107-3659 x4



Fuel Lines

- 1) B239-0719
- 2) B239-0720
- 3) B239-0721
- 4) B239-0722



Fuel Pump

- B232-5877

(1): Check application for proper use

(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

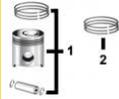
Engine Model: 3044C/T	Engine Desc: C3.4	Engine Data: INDUSTRIAL ENGINE TURBOCHARGED DIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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ESN CJS1-UP CYM1-UP	Engine Arrangement 287-8075 319-6807	Compact Track Loaders 299C	Skid Steer 272C	Wheel Loaders 297C
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Basic Engine Kit

- BBK2335 Std.
- BBK2339 0.50
- Spec Sheet - 3044C/T



1) Piston & Ring Kit

- B315-2335 Std.
- B315-2339 0.50

4 Per Engine

2) Ring Set

- B314-9962 Std.
- B314-9963 0.50



Main Bearing Set

- B233-5486 Std.
- B294-4890 0.010
- B294-4891 0.020
- B294-4892 0.030

Set of 5 Pairs



Con Rod Bearing Set

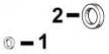
- B238-8282 Std.
- B238-8283 0.010
- B238-8284 0.020
- B238-8285 0.030

Set of 4 Pairs



Thrust Washer

- B103-9288
- Set of 3 Pcs**

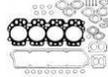


1) Front Seal

- B239-8429

2) Rear Seal

- B117-5015



1) O/H Gasket Set

- B341-3561

2) Cyl Head Gasket

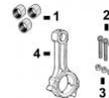
- B382-4468

3) Valve Cover Gasket

- B233-5483

4) Oil Pan Gasket

- B393-4171
- B3044OPG



1) Bush, Con Rod

- B128-2958 x4

2) Bolt, Con Rod

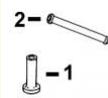
- B128-2955 x8

3) Nut, Con Rod

- B128-2956 x8

4) Con Rod Kit

- B103-9680



1) Tappet

- B103-9272 x8

2) Push Rod

- B103-9273 x8

Valve Train

1) Valve, Intake

- B233-5469 x4

2) Valve, Exhaust

- B233-5470 x4

3) Guide, Valve

- B103-9247 x8

4) Spring, Valve

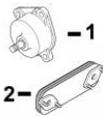
- B103-2782 x8

5) Lock, Valve

- B51-7719 x16

6) Seal, Valve

- B103-9260 x8



1) Oil Pump

- B315-4678

2) Oil Cooler

- B234-4803



1) Water Pump

- B335-9117

2) Thermostat

- B235-4960



Glowplug

- B107-3659 x4



Fuel Lines

- 1) B239-0719
- 2) B239-0720
- 3) B239-0721
- 4) B239-0722



Fuel Pump

- B232-5877

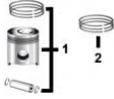
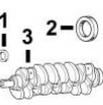
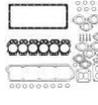
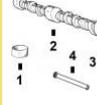
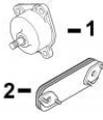
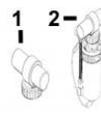
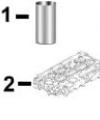
(1): Check application for proper use

(2): Crankshaft seals not included in gasket set. Order separately.

(3): For gaskets made of silicone, use B393-4171. For gaskets made of paper gasket material, use B3044OPG.

Engine Model: 3046	Engine Desc: NATURALLY ASPIRATED	Engine Data: DIRECT INJECTION	Engine Info: 6 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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Please see page 564 for a complete list of equipment models.

 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> › BBK3053 Std. › BBK3054 0.50 › Spec Sheet - 3046 	 <p>1) Piston & Ring Kit</p> <ul style="list-style-type: none"> › B107-8366 Std. › B107-8256 0.50 <p>6 Per Engine</p> <p>2) Ring Set</p> <ul style="list-style-type: none"> › B103-2857 Std. › B103-2859 0.50 	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> › B107-0991 Std. › B114-5609 0.010 › B114-5610 0.020 › B114-5611 0.030 <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> › B103-9683 Std. › B103-9684 0.010 › B103-9685 0.020 › B103-9686 0.030 <p>Set of 6 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> › B103-9288 Std <p>Set of 3 Pairs</p>
 <p>1) Front Seal</p> <ul style="list-style-type: none"> › B239-8429 <p>2) Rear Seal</p> <ul style="list-style-type: none"> › B117-5015 › B103-2835 <p>3) Crankshaft</p> <ul style="list-style-type: none"> › B107-0992F 	 <p>1) O/H Gasket Set</p> <ul style="list-style-type: none"> › B107-3732 <p>2) Cylinder Head Gasket</p> <ul style="list-style-type: none"> › B107-0979 <p>3) Valve Cover Gasket</p> <ul style="list-style-type: none"> › B107-0969 <p>4) Oil Pan Gasket</p> <ul style="list-style-type: none"> › B200-7937 	 <p>1) Bushing, Con Rod</p> <ul style="list-style-type: none"> › B128-2958 x6 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> › B128-2955 x12 <p>3) Nut, Con Rod</p> <ul style="list-style-type: none"> › B128-2956 x12 <p>4) Con Rod Kit</p> <ul style="list-style-type: none"> › B103-9680 	 <p>1) Bushing, Cam</p> <ul style="list-style-type: none"> › B51-8009 x1 › B51-7528 x2 › B51-7529 x1 <p>Bushing, Cam Set</p> <ul style="list-style-type: none"> › B3066CBS <p>2) Camshaft</p> <ul style="list-style-type: none"> › B107-8369 <p>3) Tappet</p> <ul style="list-style-type: none"> › B103-9272 x12 <p>4) Push Rod</p> <ul style="list-style-type: none"> › B103-9273 x12 	
<p>Valve Train</p>	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> › B233-5469 x6 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> › B233-5470 x6 	<p>3) Guide, Valve</p> <ul style="list-style-type: none"> › B103-9247 x12 <p>4) Spring, Valve</p> <ul style="list-style-type: none"> › B103-2782 x12 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> › B51-7719 x24 <p>6) Seal, Valve</p> <ul style="list-style-type: none"> › B103-9260 x12 	
 <p>1) Oil Pump</p> <ul style="list-style-type: none"> › B315-4678 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> › B107-2167 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> › B117-5033 <p>2) Thermostat</p> <ul style="list-style-type: none"> › B124-4835 	 <p>Fuel Pump</p> <ul style="list-style-type: none"> › 1) B228-9129 (2 Pin) › 2) B349-1063 (3 Pin) 	 <p>1) Repair Sleeve</p> <ul style="list-style-type: none"> › B122-7311 <p>2) Cylinder Head</p> <ul style="list-style-type: none"> › B107-0978UF <p>Valvetrain Kit</p> <ul style="list-style-type: none"> › B107-0978UF-VTK 	 <p>Glowplug</p> <ul style="list-style-type: none"> › B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.

(3): Use on ESN: 5XK1-UP. Not included in Basic Engine Kit. Order separately.

(5): Includes: B51-8009 x 1 B51-7528 x 2 B51-7529 x 1

(2): Check application for proper use.

(4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.

Engine Model:
3046

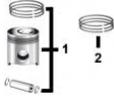
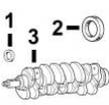
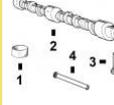
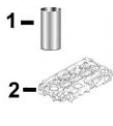
Engine Desc:
NATURALLY ASPIRATED

Engine Data:
DIRECT INJECTION

Engine Info:
6 Cyl

Engine Dimensions:
Bore:3.7 in/94.00 mm
Stroke:4.72 in/120.00 mm

Please see page 565 for a complete list of equipment models.

 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> › BBK3056 Std. › BBK3057 0.50 › Spec Sheet - 3046 	 <p>1) Piston & Ring Kit</p> <ul style="list-style-type: none"> › B128-2952 Std. › B128-2952B 0.50 <p>6 Per Engine</p> <p>2) Ring Set</p> <ul style="list-style-type: none"> › B103-2857 Std. › B103-2859 0.50 	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> › B107-0991 Std. › B114-5609 0.010 › B114-5610 0.020 › B114-5611 0.030 <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> › B103-9683 Std. › B103-9684 0.010 › B103-9685 0.020 › B103-9686 0.030 <p>Set of 6 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> › B103-9288 Std <p>Set of 3 Pairs</p>
 <p>1) Front Seal</p> <ul style="list-style-type: none"> › B239-8429 <p>2) Rear Seal</p> <ul style="list-style-type: none"> › B117-5015 › B103-2835 <p>3) Crankshaft</p> <ul style="list-style-type: none"> › B107-0992F 	 <p>1) O/H Gasket Set</p> <ul style="list-style-type: none"> › B107-3732 <p>2) Cylinder Head Gasket</p> <ul style="list-style-type: none"> › B107-0979 <p>3) Valve Cover Gasket</p> <ul style="list-style-type: none"> › B107-0969 <p>4) Oil Pan Gasket</p> <ul style="list-style-type: none"> › B200-7937 	 <p>1) Bushing, Con Rod</p> <ul style="list-style-type: none"> › B128-2958 x6 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> › B128-2955 x12 <p>3) Nut, Con Rod</p> <ul style="list-style-type: none"> › B128-2956 x12 <p>4) Con Rod Kit</p> <ul style="list-style-type: none"> › B103-9680 	 <p>1) Bushing, Cam</p> <ul style="list-style-type: none"> › B51-8009 x1 › B51-7528 x2 › B51-7529 x1 <p>Bushing, Cam Set</p> <ul style="list-style-type: none"> › B3066CBS <p>2) Camshaft</p> <ul style="list-style-type: none"> › B107-8369 <p>3) Tappet</p> <ul style="list-style-type: none"> › B103-9272 x12 <p>4) Push Rod</p> <ul style="list-style-type: none"> › B103-9273 x12 	
<p>Valve Train</p>	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> › B233-5469 x6 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> › B233-5470 x6 	<p>3) Guide, Valve</p> <ul style="list-style-type: none"> › B103-9247 x12 <p>4) Spring, Valve</p> <ul style="list-style-type: none"> › B103-2782 x12 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> › B51-7719 x24 <p>6) Seal, Valve</p> <ul style="list-style-type: none"> › B103-9260 x12 	
 <p>1) Oil Pump</p> <ul style="list-style-type: none"> › B315-4678 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> › B107-2167 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> › B117-5033 <p>2) Thermostat</p> <ul style="list-style-type: none"> › B124-4835 	 <p>Fuel Pump</p> <ul style="list-style-type: none"> › 1) B228-9129 (2 Pin) › 2) B349-1063 (3 Pin) 	 <p>1) Repair Sleeve</p> <ul style="list-style-type: none"> › B122-7311 <p>2) Cylinder Head</p> <ul style="list-style-type: none"> › B107-0978UF <p>Valvetrain Kit</p> <ul style="list-style-type: none"> › B107-0978UF-VTK 	 <p>Glowplug</p> <ul style="list-style-type: none"> › B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.

(3): Use on ESN: 5XK1-UP. Not included in Basic Engine Kit. Order separately.

(5): Includes: B51-8009 x 1 B51-7528 x 2 B51-7529 x 1

(2): Check application for proper use.

(4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.

Engine Model:
3046

Engine Desc:
TURBOCHARGED

Engine Data:
DIRECT
INJECTION

Engine Info:
6 Cyl

Engine Dimensions:

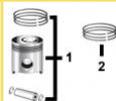
Bore: 3.7 in /
94.00 mm
Stroke: 4.72 in /
120.00 mm

Please see page 566 for a complete list of equipment models.



Basic Engine Kit

- › BBK3059 Std.
- › BBK3060 0.50
- › Spec Sheet - 3046



1) Piston & Ring Kit

- › B107-0984 Std.
- › B107-0984B 0.50

6 Per Engine

2) Ring Set

- › B103-2857 Std.
- › B103-2859 0.50



Main Bearing Set

- › B107-0991 Std.
- › B114-5609 0.010
- › B114-5610 0.020
- › B114-5611 0.030

Set of 7 Pairs



Con Rod Bearing Set

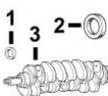
- › B103-9683 Std.
- › B103-9684 0.010
- › B103-9685 0.020
- › B103-9686 0.030

Set of 6 Pairs



Thrust Washer

- › B103-9288 Std
- Set of 3 Pairs**



1) Front Seal

- › B239-8429

2) Rear Seal

- › B117-5015
- › B103-2835

3) Crankshaft

- › B107-0992F



1) O/H Gasket Set

- › B107-3732

2) Cylinder Head Gasket

- › B107-0979

3) Valve Cover Gasket

- › B107-0969

4) Oil Pan Gasket

- › B200-7937



1) Bushing, Con Rod

- › B128-2958 x6

2) Bolt, Con Rod

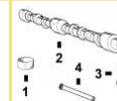
- › B128-2955 x12

3) Nut, Con Rod

- › B128-2956 x12

4) Con Rod Kit

- › B103-9680



1) Bushing, Cam

- › B5I-8009 x1
- › B5I-7528 x2
- › B5I-7529 x1

Bushing, Cam Set

- › B3066CBS

2) Camshaft

- › B107-8369

3) Tappet

- › B103-9272 x12

4) Push Rod

- › B103-9273 x12

Valve Train

1) Valve, Intake

- › B233-5469 x6

2) Valve, Exhaust

- › B233-5470 x6

3) Guide, Valve

- › B103-9247 x12

4) Spring, Valve

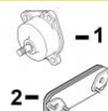
- › B103-2782 x12

5) Lock, Valve

- › B5I-7719 x24

6) Seal, Valve

- › B103-9260 x12



1) Oil Pump

- › B315-4678

2) Oil Cooler

- › B107-2167

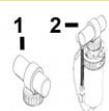


1) Water Pump

- › B117-5033

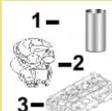
2) Thermostat

- › B124-4835



Fuel Pump

- › 1) B228-9129 (2 Pin)
- › 2) B349-1063 (3 Pin)



1) Repair Sleeve

- › B122-7311

2) Turbocharger

- › B117-7867

3) Cylinder Head

- › B107-0978UF

Valvetrain Kit

- › B107-0978UF-VTK



Glowplug

- › B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
 (2): Check application for proper use.
 (3): Use on ESN: 5XK1-UP. Not included in Basic Engine Kit. Order separately.
 (4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.
 (5): Includes: B5I-8009 x 1 B5I-7528 x 2 B5I-7529 x 1

Engine Model:
3046

Engine Desc:
TURBOCHARGED

Engine Data:
DIRECT
INJECTION

Engine Info:
6 Cyl

Engine Dimensions:

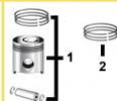
Bore: 3.7 in /
94.00 mm
Stroke: 4.72 in /
120.00 mm

Please see page 567 for a complete list of equipment models.



Basic Engine Kit

- › BBK3062 Std.
- › BBK3063 0.50
- › Spec Sheet - 3046



1) Piston & Ring Kit

- › B128-3295 Std.
- › B128-3295B 0.50

6 Per Engine

2) Ring Set

- › B103-2857 Std.
- › B103-2859 0.50



Main Bearing Set

- › B107-0991 Std.
- › B114-5609 0.010
- › B114-5610 0.020
- › B114-5611 0.030

Set of 7 Pairs



Con Rod Bearing Set

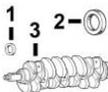
- › B103-9683 Std.
- › B103-9684 0.010
- › B103-9685 0.020
- › B103-9686 0.030

Set of 6 Pairs



Thrust Washer

- › B103-9288 Std
- Set of 3 Pairs**



1) Front Seal

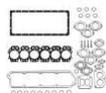
- › B239-8429

2) Rear Seal

- › B117-5015
- › B103-2835

3) Crankshaft

- › B107-0992F



1) O/H Gasket Set

- › B107-3732

2) Cylinder Head Gasket

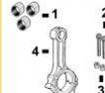
- › B107-0979

3) Valve Cover Gasket

- › B107-0969

4) Oil Pan Gasket

- › B200-7937



1) Bushing, Con Rod

- › B128-2958 x6

2) Bolt, Con Rod

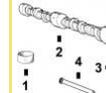
- › B128-2955 x12

3) Nut, Con Rod

- › B128-2956 x12

4) Con Rod Kit

- › B103-9680



1) Bushing, Cam

- › B5I-8009 x1
- › B5I-7528 x2
- › B5I-7529 x1

Bushing, Cam Set

- › B3066CBS

2) Camshaft

- › B107-8369

3) Tappet

- › B103-9272 x12

4) Push Rod

- › B103-9273 x12

Valve Train

1) Valve, Intake

- › B233-5469 x6

2) Valve, Exhaust

- › B233-5470 x6

3) Guide, Valve

- › B103-9247 x12

4) Spring, Valve

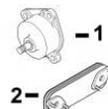
- › B103-2782 x12

5) Lock, Valve

- › B5I-7719 x24

6) Seal, Valve

- › B103-9260 x12

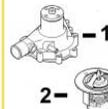


1) Oil Pump

- › B315-4678

2) Oil Cooler

- › B107-2167

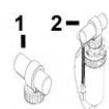


1) Water Pump

- › B117-5033

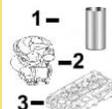
2) Thermostat

- › B124-4835



Fuel Pump

- › 1) B228-9129 (2 Pin) 2
- › 2) B349-1063 (3 Pin) 2



1) Repair Sleeve

- › B122-7311

2) Turbocharger

- › B117-7867

3) Cylinder Head

- › B107-0978UF

Valvetrain Kit

- › B107-0978UF-VTK 4



Glowplug

- › B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.

(3): Use on ESN: 5XK15489-UP. Not included in Basic Engine Kit. Order separately.

(5): Includes: B5I-8009 x 1 B5I-7528 x 2 B5I-7529 x 1

(2): Check application for proper use.

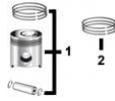
(4): Kit includes intake and exhaust valves, valve springs, valve locks, and valve seals.

Engine Model: 3046	Engine Desc: TURBOCHARGED	Engine Data: DIRECT INJECTION	Engine Info: 6 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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ESN 5XK484-UP	5XK24000-UP	Engine Arrangement 156-4372 176-1066	176-1067 176-7085	Caterpillar 317B L - Excavators 317B LN - Excavators 318B L - Excavators 318B LN - Excavators
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Basic Engine Kit
 • BBK3065 Std.
 • BBK3066 0.50
 • Spec Sheet - 3046



1) Piston & Ring Kit
 • B160-6600 Std.
 • B160-6600B 0.50
6 Per Engine
2) Ring Set
 • B103-2857 Std.
 • B103-2859 0.50



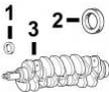
Main Bearing Set
 • B107-0991 Std.
 • B114-5609 0.010
 • B114-5610 0.020
 • B114-5611 0.030
Set of 7 Pairs



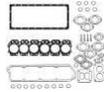
Con Rod Bearing Set
 • B103-9683 Std.
 • B103-9684 0.010
 • B103-9685 0.020
 • B103-9686 0.030
Set of 6 Pairs



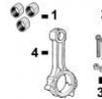
Thrust Washer
 • B103-9288 Std
Set of 3 Pairs



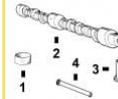
1) Front Seal
 • B239-8429
2) Rear Seal
 • B117-5015
3) Crankshaft
 • B107-0992F



1) O/H Gasket Set
 • B107-3732
2) Cylinder Head Gasket
 • B107-0979
3) Valve Cover Gasket
 • B107-0969
4) Oil Pan Gasket
 • B200-7937



1) Bushing, Con Rod
 • B128-2958 x6
2) Bolt, Con Rod
 • B128-2955 x12
3) Nut, Con Rod
 • B128-2956 x12
4) Con Rod Kit
 • B103-9680



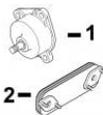
1) Bushing, Cam
 • B51-8009 x1
 • B51-7528 x2
 • B51-7529 x1
Bushing, Cam Set
 • B3066CBS
2) Camshaft
 • B107-8369
3) Tappet
 • B103-9272 x12
4) Push Rod
 • B103-9273 x12

Valve Train

1) Valve, Intake
 • B233-5469 x6
2) Valve, Exhaust
 • B233-5470 x6

3) Guide, Valve
 • B103-9247 x12
4) Spring, Valve
 • B103-2782 x12

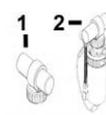
5) Lock, Valve
 • B51-7719 x24
6) Seal, Valve
 • B103-9260 x12



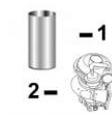
1) Oil Pump
 • B315-4678
2) Oil Cooler
 • B107-2167



1) Water Pump
 • B117-5033
2) Thermostat
 • B124-4835



Fuel Pump
 • 1) B228-9129 (2 Pin)
 • 2) B349-1063 (3 Pin)



1) Repair Sleeve
 • B122-7311
2) Turbocharger
 • B117-7867



Glowplug
 • B107-3659 x6

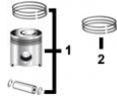
(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately. (2): Check application for proper use.
 (3): Includes: B51-8009 x 1 B51-7528 x 2 B51-7529 x 1

Engine Model: 3046	Engine Desc: TURBOCHARGED	Engine Data: DIRECT INJECTION	Engine Info: 6 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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Engine Arrangement		Tractors		Excavators	
198-1442	211-3012	D5G XL	D5G LGP	315C	315C L
213-8544	213-8555	D3G XL	D3G LGP		
280-6708	280-6715	D4G XL	D4G LGP		
280-6718					



Basic Engine Kit
 • BBK4284 Std.
 • BBK4284B 0.50
 • Spec Sheet - 3046



1) Piston & Ring Kit
 • B225-4284 Std.
 • B225-4284B 0.50
6 Per Engine
2) Ring Set
 • B226-8204 Std.
 • B238-8281 0.50



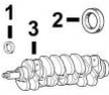
Main Bearing Set
 • B107-0991 Std.
 • B114-5609 0.010
 • B114-5610 0.020
 • B114-5611 0.030
Set of 7 Pairs



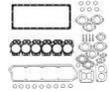
Con Rod Bearing Set
 • B103-9683 Std.
 • B103-9684 0.010
 • B103-9685 0.020
 • B103-9686 0.030
Set of 6 Pairs



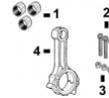
Thrust Washer
 • B103-9288 Std.
Set of 3 Pairs



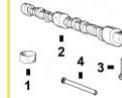
1) Front Seal
 • B239-8429
2) Rear Seal
 • B117-5015
 • B103-2835
3) Crankshaft
 • B107-0992F



1) O/H Gasket Set
 • B107-3732
2) Cylinder Head Gasket
 • B107-0979
3) Valve Cover Gasket
 • B107-0969
4) Oil Pan Gasket
 • B200-7937



1) Bushing, Con Rod
 • B128-2958 x6
2) Bolt, Con Rod
 • B128-2955 x12
3) Nut, Con Rod
 • B128-2956 x12
4) Con Rod Kit
 • B103-9680



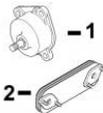
1) Bushing, Cam
 • B51-8009 x1
 • B51-7528 x2
 • B51-7529 x1
Bushing, Cam Set
 • B3066CBS
2) Camshaft
 • B107-8369
3) Tappet
 • B103-9272 x12
4) Push Rod
 • B103-9273 x12

Valve Train

1) Valve, Intake
 • B233-5469 x6
2) Valve, Exhaust
 • B233-5470 x6

3) Guide, Valve
 • B103-9247 x12
4) Spring, Valve
 • B103-2782 x12

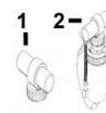
5) Lock, Valve
 • B51-7719 x24
6) Seal, Valve
 • B103-9260 x12



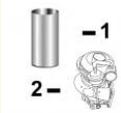
1) Oil Pump
 • B315-4678
2) Oil Cooler
 • B107-2167



1) Water Pump
 • B117-5033
2) Thermostat
 • B124-4835



Fuel Pump
 • 1) B228-9129 (2 Pin)
 • 2) B349-1063 (3 Pin)

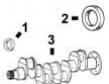
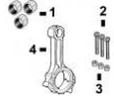
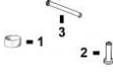
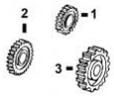
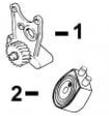
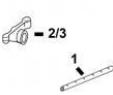


1) Repair Sleeve
 • B122-7311
2) Turbocharger
 • B117-7867

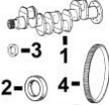
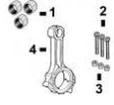
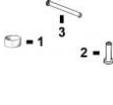
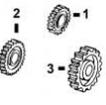
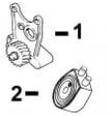
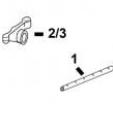


Glowplug
 • B107-3659 x6

(1): Oil Pan Gasket not included in O/H Gasket Set; use approved Sealant Gasket or order Oil Pan Gasket B200-7937 separately.
 (2): Check application for proper use.
 (3): Use on ESN: 5XK15489-UP. Not included in Basic Engine Kit. Order separately.
 (4): Includes: B51-8009 x 1 B51-7528 x 2 B51-7529 x 1

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:
3054	NATURALLY ASPIRATED	416 BACKHOES 426 BACKHOES	4 Cyl	Bore: 3.877 in / 98.476 mm
Model 416	Model 426	Backhoe Loaders	Caterpillar	Engine Arrangement
ESN - 5PC1-UP	ESN - 7BC1-UP	416 426 416C	554 - Forwarder	2W-9777 2W-9778 7C-6074
 <p>1) Engine O/H Kit , BOK500</p> <p>2) Basic Engine Kit , BBK500 , SPEC SHEET - 3054</p>	 <p>Piston-Liner Kit , BCK819</p> <p>Consist of: a) B4W-5819 b) B7W-7732 c) B7C-3182</p> <p>4 Per Engine</p>	 <p>Main Bearing Set , B067-6869 Std. , B033-2379 0.010 , B033-2380 0.020 , B033-2381 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , B4P-9944 Std. , B4P-9945 0.010 , B4P-9946 0.020 , B4P-9947 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set , B032-9090/91 Std. , B067-6873/74 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal , B4W-5359</p> <p>2) Rear Seal , B4W-5360</p> <p>3) Crankshaft Kit , B7C-8214</p>	 <p>1) Top Gasket Set , B4P-7577</p> <p>2) Bottom Gasket Set , B7C-3801</p> <p>3) Valve Cover Gsk , B4P-3676</p> <p>4) Head Gasket , B7C-3803</p> <p>5) Oil Pan Gasket , B032-9946</p>	 <p>1) Bush, Con Rod , B067-6158 x4</p> <p>2) Bolt, Con Rod , B067-6883 x8</p> <p>3) Nut, Con Rod , B7W-2505 x8</p> <p>4) Con Rod , B067-6879</p>	 <p>1) Bushing, Cam , B036-5802 x1</p> <p>2) Tappet , B138-2053</p> <p>3) Pushrod , B067-6095</p>	 <p>1) Crankshaft Gear , B067-9579</p> <p>2) Camshaft Gear , B7C-3187</p> <p>3) Idler Gear , B2W-1529</p>
<p>Valve Train Kit , BVTK550</p>	<p>1) Valve, Intake , B2W-6988 x4</p> <p>2) Valve, Exhaust , B7W-2522 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust , 3a) B160-5436 x4 , 3b) B160-5438 x4</p>	<p>4) Spring, Valve a) Inner b) Outer , 4a) B067-6053 x8 , 4b) B067-6052 x8</p>	<p>5) Lock, Valve , B067-6834 x16</p> <p>6) Seal, Valve , B1W-5849 x8</p>
 <p>1) Oil Pump , B067-6925</p> <p>2) Oil Cooler , B7E-5584 , B245-1361</p>	 <p>1) Cylinder Head Bolt , B7W-2518 x8 , B7W-2519 x12 , B7W-2520 x2</p> <p>2) Lift Pump , B7C-2798</p>	 <p>1) Water Pump , B7E-9195</p> <p>2) Thermostat , B4W-8063</p>	 <p>1) Rocker Shaft , B032-9007</p> <p>2) Rocker Arm LH , B150-1217</p> <p>3) Rocker Arm RH , B150-1218</p>	 <p>1) Cylinder Head , B7C-3188</p> <p>2) Heater Plug , B035-8059</p>

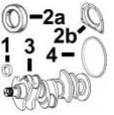
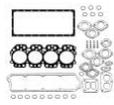
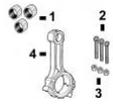
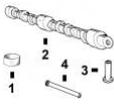
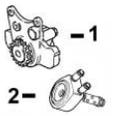
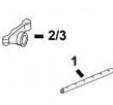
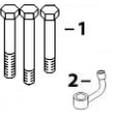
(1): Flanged Fully Finished Liner. Semi Finished Liner available B7C-3182UF.

Engine Model:	Engine Desc:	Engine Data:	Engine Info:	Engine Dimensions:	
3054T	TURBOCHARGED	416 BACKHOES 426 BACKHOES	4 Cyl	Bore: 3.877 in / 98.476 mm	
Model 416	Model 426	Engine Arrangement		Backhoe Loaders	
ESN - 5PC1-UP	ESN - 7BC1-UP	7W-8998	7C-6076	416 426C	426 436C
 <p>1) Engine O/H Kit , BOK501</p> <p>2) Basic Engine Kit , BBK501 , SPEC SHEET - 3054</p>	 <p>Piston-Liner Kit , BCK107</p> <p>Consist of:</p> <p>a) B116-6107 b) B7W-2513 c) B7C-3182</p> <p>4 Per Engine</p>	 <p>Main Bearing Set , B067-6869 Std. , B033-2379 0.010 , B033-2380 0.020 , B033-2381 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , B4P-9944 Std. , B4P-9945 0.010 , B4P-9946 0.020 , B4P-9947 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set , B032-9090/91 Std. , B067-6873/74 0.007</p> <p>Set of 2 Pairs</p>	
 <p>1) Front Seal , B4W-5359</p> <p>2) Rear Seal , B4W-5360</p> <p>3) Crankshaft Kit , B7C-8214</p> <p>4) Ring Gear , B186-2374 122T</p>	 <p>1) Top Gasket Set , BTG-0236</p> <p>2) Bottom Gasket Set , B7C-3801</p> <p>3) Valve Cover Gsk , B4P-3676</p> <p>4) Head Gasket , BCH-0236</p> <p>5) Oil Pan Gasket , B032-9946</p>	 <p>1) Bush, Con Rod , B7W-2510 x4</p> <p>2) Bolt, Con Rod , B067-6883 x8</p> <p>3) Nut, Con Rod , B7W-2505 x8</p> <p>4) Con Rod , B7W-2514</p>	 <p>1) Bushing, Cam , B036-5802 x1</p> <p>2) Tappet , B138-2053</p> <p>3) Pushrod , B067-6095</p>	 <p>1) Crankshaft Gear , B067-9579</p> <p>2) Camshaft Gear , B7C-3187</p> <p>3) Idler Gear , B2W-1529</p>	
<p>Valve Train Kit , BVTK550</p>	<p>1) Valve, Intake , B2W-6988 x4</p> <p>2) Valve, Exhaust , B7W-2522 x4</p>	<p>3) Guide, Valve</p> <p>a) Intake b) Exhaust</p> <p>, 3a) B160-5436 x4 , 3b) B160-5438 x4</p>	<p>4) Spring, Valve</p> <p>a) Inner b) Outer</p> <p>, 4a) B067-6053 x8 , 4b) B067-6052 x8</p>	<p>5) Lock, Valve , B067-6834 x16</p> <p>6) Seal, Valve , B1W-5849 x8</p>	
 <p>1) Oil Pump , B067-6925</p> <p>2) Oil Cooler , B7E-5584</p>	 <p>1) Cylinder Head Bolt , B7W-2518 x8 , B7W-2519 x12 , B7W-2520 x2</p> <p>2) Lift Pump , B7C-2798</p>	 <p>1) Water Pump , B7E-9195</p> <p>2) Thermostat , B4W-8063</p>	 <p>1) Rocker Shaft , B032-9007</p> <p>2) Rocker Arm LH , B150-1217</p> <p>3) Rocker Arm RH , B150-1218</p>	 <p>1) Cylinder Head , B7C-3188</p> <p>2) Heater Plug , B035-8059</p>	

(1): Flanged Fully Finished Liner. Semi Finished Liner available B7C-3182UF.

Engine Model: 3054	Engine Desc: NATURALLY ASPIRATED	Engine Data: INDUSTRIAL ENGINE	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.937 in / 100.00 mm
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Please see page 568 for a complete list of equipment models.

 <p>1) Engine O/H Kit , BOK502</p> <p>2) Basic Engine Kit , BBK502 , SPEC SHEET - 3054</p>	 <p>Piston-Liner Kit , BCK264</p> <p>Consist of: , a) B135-0264 , b) B146-1780 , c) B6I-0164</p> <p>4 Per Engine</p>	 <p>Main Bearing Set , B067-6869 Std. , B033-2379 0.010 , B033-2380 0.020 , B033-2381 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , B4P-9944 Std. , B4P-9945 0.010 , B4P-9946 0.020 , B4P-9947 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set , B032-9090/91 Std. , B067-6873/74 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal , B4W-5359</p> <p>2a) Rear Seal , B4W-5360</p> <p>2b) Rear Seal , B209-9218</p> <p>3) Crankshaft Kit , B7C-8214</p> <p>4) Ring Gear , B7W-6247 115T , B033-7687 126T</p>	 <p>1) Top Gasket Set , B177-3310</p> <p>2) Bottom Gasket Set , B173-9716</p> <p>3) Valve Cover Gsk , B126-6671</p> <p>4) Head Gasket , B160-0161</p> <p>5) Oil Pan Gasket , B032-9946</p>	 <p>1) Bush, Con Rod , B067-6158 x4</p> <p>2) Bolt, Con Rod , B067-6883 x8</p> <p>3) Nut, Con Rod , B7W-2505 x8</p> <p>4) Con Rod , B067-6879</p>	 <p>1) Bushing, Cam , B036-5802 x1</p> <p>2) Camshaft , B132-3930</p> <p>3) Tappet , B138-2053</p> <p>4) Pushrod , B067-6095</p>	
<p>Valve Train Kit , BVTK551</p>	<p>1) Valve, Intake , B6I-0282 x4</p> <p>2) Valve, Exhaust , B7W-4602 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust , 3a) B160-5436 x4 , 3b) B160-5438 x4</p>	<p>4) Spring, Valve a) Inner b) Outer , 4a) B6I-0284 x8 , 4b) B6I-0283 x8</p>	<p>5) Lock, Valve , B067-6834 x16</p> <p>6) Seal, Valve , B1W-5849 x8</p>
 <p>1) Oil Pump , B6I-0253</p> <p>2) Oil Cooler , B245-1372 , B247-6318</p>	 <p>Lift Pump , B201-0877</p>	 <p>1) Water Pump , B151-4825</p> <p>2) Thermostat , B4W-8063</p>	 <p>1) Rocker Shaft , B032-9007</p> <p>2) Rocker Arm LH , B150-1217</p> <p>3) Rocker Arm RH , B150-1218</p>	 <p>1) Cylinder Head Bolt , B7W-2518 x8 , B7W-2519 x12 , B7W-2520 x2</p> <p>2) Piston Cooling Nozzle , B148-0877</p>

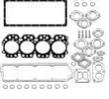
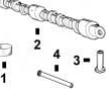
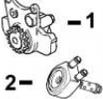
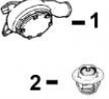
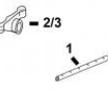
(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I- (2): To ESN: 6FK10030 0164UF

(3): From ESN: 6FK10031

(4): Check application for proper usage

Engine Model: 3054T	Engine Desc: TURBOCHARGED	Engine Data: INDUSTRIAL ENGINE	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.937 in / 100.00 mm
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Please see page 569 for a complete list of equipment models.

 <p>1) Engine O/H Kit , BOK503/45 , BOK503/30 2) Basic Engine Kit , BBK503 , SPEC SHEET - 3054</p>	 <p>Piston-Liner Kit , BCK553 Consist of: , a) B107-2553 , b) B112-7020 , c) B6I-0164 1 4 Per Engine</p>	 <p>Main Bearing Set , B067-6869 Std. , B033-2379 0.010 , B033-2380 0.020 , B033-2381 0.030 Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , B4P-9944 Std. , B4P-9945 0.010 , B4P-9946 0.020 , B4P-9947 0.030 Set of 4 Pairs</p>	 <p>Thrust Washer Set , B032-9090/91 Std. , B067-6873/74 0.007 Set of 2 Pairs</p>
 <p>1) Front Seal , B4W-5359 2a) Rear Seal , B4W-5360 2b) Rear Seal , B209-9218 3) Crankshaft Kit , B4P-9948 4) Ring Gear , B7W-6247 115T , B033-7687 126T</p>	 <p>1) Top Gasket Set , B177-3310 2) Bottom Gasket Set 2 , B173-9716 3) Valve Cover Gsk 3 , B126-6671 4) Head Gasket , B160-0161 5) Oil Pan Gasket , B032-9946</p>	 <p>1) Bush, Con Rod , B7W-2510 x4 2) Bolt, Con Rod , B067-6883 x8 3) Nut, Con Rod , B7W-2505 x8 4) Con Rod , B7W-2514</p>	 <p>1) Bushing, Cam , B036-5802 x1 2) Camshaft , B132-3930 3) Tappet , B138-2053 4) Pushrod , B067-6095</p>	
<p>Valve Train Kit , a) 45 b) 30 , a) BVTK552 , b) BVTK556</p>	<p>1) Valve, Intake , a) 45 b) 30 2) Valve, Exhaust , 1a) B6I-1196 x4 , 1b) B100-4626 x4 , 2) B7W-4602 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust , 3a) B160-5436 x4 , 3b) B160-5438 x4</p>	<p>4) Spring, Valve a) Inner b) Outer , 4a) B6I-0284 x8 , 4b) B6I-0283 x8</p>	<p>5) Lock, Valve , B067-6834 x16 6) Seal, Valve , B1W-5849 x8</p>
 <p>1) Oil Pump , B6I-0912 2) Oil Cooler , B245-1372 5 , B247-6318 5</p>	 <p>Lift Pump , B201-0877</p>	 <p>1) Water Pump , B151-4825 2) Thermostat , B4W-8063</p>	 <p>1) Rocker Shaft , B032-9007 2) Rocker Arm LH , B150-1217 3) Rocker Arm RH , B150-1218</p>	 <p>1) Piston Cooling Nozzle , B148-3026 2) Turbocharger , B219-9773 5 , B118-8384 5</p>

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I- (2): To ESN: 6FK10030 0164UF.

(3): From ESN: 6FK10031

(4): For low speed, single valve spring applications, use # 6I-0271 (Not available from Maxiforce).

(5): Check application for proper usage

Engine Model: 3054T	Engine Desc: TURBOCHARGED	Engine Data: Used in CAT Wheel Loader Model 914G / IT4G	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.937 in / 100.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 365 in3 / 6 Lt
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Piston (M):
GRADE L (m) 3135J186

ESN 6FK1-UP	Caterpillar PS200B - Pneumatic Roller	PS360B - Pneumatic Roller	Hydraulic Excavators M315	Engine Arrangement 107-4860 107-9665
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- 1) **Engine O/H Kit**
• BOK529
- 2) **Basic Engine Kit**
• BBK529
• SPEC SHEET - 3054



- Piston-Liner Kit**
• BCK529
- Consist of:**
- a) B124-3529
- b) B112-7020
- c) B111-1815
- 4 Per Engine**



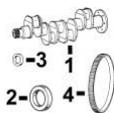
- Main Bearing Set**
• B067-6869 *Std.*
• B033-2379 *0.010*
• B033-2380 *0.020*
• B033-2381 *0.030*
- 1** **Set of 5 Pairs**



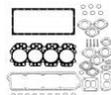
- Con Rod Bearing Set**
• B4P-9944 *Std.*
• B4P-9945 *0.010*
• B4P-9946 *0.020*
• B4P-9947 *0.030*
- Set of 4 Pairs**



- Thrust Washer Set**
• B032-9090/91 *Std.*
• B067-6873/74 *0.007*
- Set of 2 Pairs**



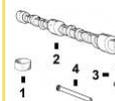
- 1) **Front Seal**
• B4W-5359
- 2) **Rear Seal**
• B4W-5360
- 3) **Crankshaft Kit**
• B139-7018
- 4) **Ring Gear**
• B7W-6247 *115T*
• B033-7687 *126T*



- 1) **Top Gasket Set**
• B177-3310
- 2) **Bottom Gasket Set**
• B173-9716
- 3) **Valve Cover Gsk**
• B126-6671
- 4) **Head Gasket**
• B160-0161
- 5) **Oil Pan Gasket**
• B032-9946



- 1) **Bush, Con Rod**
• B124-3531 *x4*
- 2) **Bolt, Con Rod**
• B124-3532 *x8*
- 3) **Nut, Con Rod**
• B124-3533 *x8*
- 4) **Con Rod**
• B124-3530



- 1) **Bushing, Cam**
• B036-5802 *x1*
- 2) **Camshaft**
• B132-3930
- 3) **Tappet**
• B138-2053
- 4) **Pushrod**
• B067-6095

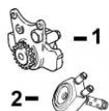
- Valve Train Kit**
• BVTK556

- 1) **Valve, Intake**
• B100-4626 *x4*
- 2) **Valve, Exhaust**
• B7W-4602 *x4*

- 3) **Guide, Valve**
- a) **Intake**
- b) **Exhaust**
• 3a) B160-5436 *x4*
• 3b) B160-5438 *x4*

- 4) **Spring, Valve**
- a) **Inner**
- b) **Outer**
• 4a) B6I-0284 *x8*
• 4b) B6I-0283 *x8*

- 5) **Lock, Valve**
• B067-6834 *x16*
- 6) **Seal, Valve**
• B1W-5849 *x8*



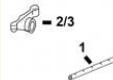
- 1) **Oil Pump**
• B6I-0912
- 2) **Oil Cooler**
• B245-1372



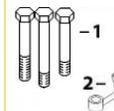
- Lift Pump**
• B201-0877



- Water Pump**
• B151-4825



- 1) **Rocker Shaft**
• B032-9007
- 2) **Rocker Arm LH**
• B150-1217
- 3) **Rocker Arm RH**
• B150-1218



- 1) **Cylinder Head Bolt**
• B7W-2518 *x8*
• B7W-2519 *x12*
• B7W-2520 *x2*
- 2) **Piston Cooling Nozzle**
• B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111

Engine Model: 3054T	Engine Desc: TURBOCHARGED	Engine Data: Used in CAT Wheel Loader Model 914G / IT4G	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.937 in / 100.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 365 in3 / 6 Lt
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Piston (M):
GRADE K (m) 3135J185

ESN 7BJ1-UP	Caterpillar PS200B - Pneumatic Roller PS360B - Pneumatic Roller	Hydraulic Excavators M312 M315	Wheel Loaders 914G IT14G	Engine Arrangement 107-4860 203-0762 107-9665 356-9742
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- 1) **Engine O/H Kit**
‣ BOK528
- 2) **Basic Engine Kit**
‣ BBK528
‣ SPEC SHEET - 3054



- Piston-Liner Kit**
‣ BCK528
- Consist of:**
 - a) B124-3528
 - b) B112-7020
 - c) B111-1815
- 4 Per Engine**



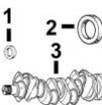
- Main Bearing Set**
 - B067-6869 *Std.*
 - B033-2379 *0.010*
 - B033-2380 *0.020*
 - B033-2381 *0.030*
- Set of 5 Pairs**



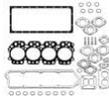
- Con Rod Bearing Set**
 - B4P-9944 *Std.*
 - B4P-9945 *0.010*
 - B4P-9946 *0.020*
 - B4P-9947 *0.030*
- Set of 4 Pairs**



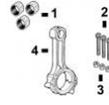
- Thrust Washer Set**
 - B032-9090/91 *Std.*
 - B067-6873/74 *0.007*
- Set of 2 Pairs**



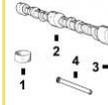
- 1) **Front Seal**
‣ B4W-5359
- 2) **Rear Seal**
‣ B4W-5360
- 3) **Crankshaft Kit**
‣ B139-7018



- 1) **Top Gasket Set**
‣ B177-3310
- 2) **Bottom Gasket Set**
‣ B173-9716
- 3) **Valve Cover Gsk**
‣ B126-6671
- 4) **Head Gasket**
‣ B160-0161
- 5) **Oil Pan Gasket**
‣ B032-9946



- 1) **Bush, Con Rod**
‣ B124-3531 *x4*
- 2) **Bolt, Con Rod**
‣ B124-3532 *x8*
- 3) **Nut, Con Rod**
‣ B124-3533 *x8*
- 4) **Con Rod**
‣ B124-3530



- 1) **Bushing, Cam**
‣ B036-5802 *x1*
- 2) **Camshaft**
‣ B132-3930
- 3) **Tappet**
‣ B138-2053
- 4) **Pushrod**
‣ B067-6095

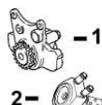
- Valve Train Kit**
‣ BVTK556

- 1) **Valve, Intake**
‣ B100-4626 *x4*
- 2) **Valve, Exhaust**
‣ B7W-4602 *x4*

- 3) **Guide, Valve**
 - a) **Intake**
 - b) **Exhaust**
- 3a) B160-5436 *x4*
- 3b) B160-5438 *x4*

- 4) **Spring, Valve**
 - a) **Inner**
 - b) **Outer**
- 4a) B6I-0284 *x8*
- 4b) B6I-0283 *x8*

- 5) **Lock, Valve**
‣ B067-6834 *x16*
- 6) **Seal, Valve**
‣ B1W-5849 *x8*



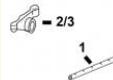
- 1) **Oil Pump**
‣ B6I-0912
- 2) **Oil Cooler**
‣ B245-1372



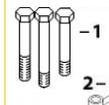
- Lift Pump**
‣ B201-0877



- Water Pump**
‣ B151-4825



- 1) **Rocker Shaft**
‣ B032-9007
- 2) **Rocker Arm LH**
‣ B150-1217
- 3) **Rocker Arm RH**
‣ B150-1218



- 1) **Cylinder Head Bolt**
 - B7W-2518 *x8*
 - B7W-2519 *x12*
 - B7W-2520 *x2*
- 2) **Piston Cooling Nozzle**
‣ B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111

Engine Model:
3054

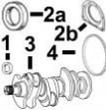
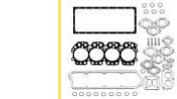
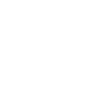
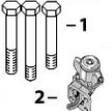
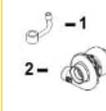
Engine Desc:
TURBOCHARGED
or
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in /
100.00 mm

Please see page 570 for a complete list of equipment models.

 <p>1) Engine O/H Kit ․ BOK504/45 ․ BOK504/30 2) Basic Engine Kit ․ BBK504 ․ SPEC SHEET - 3054</p>	 <p>Piston-Liner Kit ․ BCK390 Consist of: ․ a) B152-1390 ․ b) B138-2073 ․ c) B111-1815</p>	 <p>Main Bearing Set ․ B067-6869 Std. ․ B033-2379 0.010 ․ B033-2380 0.020 ․ B033-2381 0.030</p>	 <p>Con Rod Bearing Set ․ B4P-9944 Std. ․ B4P-9945 0.010 ․ B4P-9946 0.020 ․ B4P-9947 0.030</p>	 <p>Thrust Washer Set ․ B032-9090/91 Std. ․ B067-6873/74 0.007 Set of 2 Pairs</p>
 <p>1) Front Seal ․ B4W-5359 2a) Rear Seal ․ B4W-5360 2b) Rear Seal ․ B209-9218 3) Crankshaft Kit ․ B4P-9948 4) Ring Gear ․ B7W-6247 115T ․ B033-7687 126T</p>	 <p>1) Top Gasket Set ․ B175-1321 2) Bottom Gasket Set ․ B187-4968 3) Valve Cover Gsk ․ B200-6374 4) Head Gasket ․ B160-0161 5) Oil Pan Gasket ․ B032-9946</p>	 <p>1) Bush, Con Rod ․ B138-2048 x4 2) Bolt, Con Rod ․ B067-6883 x8 3) Nut, Con Rod ․ B7W-2505 x8</p>	 <p>1) Bushing, Cam ․ B036-5802 x1 2) Tappet ․ B138-2053 3) Pushrod ․ B067-6095 4) Seal, Valve Intake ․ B145-6856 x4 5) Seal, Valve Exhaust ․ B145-6858 x4</p>	
<p>Valve Train Kit ․ a) 45 b) 30 ․ a) BVTK553 ․ b) BVTK554</p>	<p>1) Valve, Intake ․ a) 45 b) 30 ․ 1a) B138-2052 x4 ․ 1b) B145-6855 x4 2) Valve, Exhaust ․ 2a) B138-2050 x4 ․ 2b) B145-6857 x4</p>	<p>3) Guide, Valve a) Intake ․ 3a) B185-0882 x4 ․ 3b) B163-9256 x4 b) Exhaust</p>	<p>4) Spring, Valve ․ B206-4127 x8</p>	<p>5) Lock, Valve ․ B147-1979 x16</p>
 <p>1) Oil Pump ․ B6I-0912 ․ B7C-3134 2) Oil Cooler ․ B245-1372 ․ B247-6318</p>	 <p>1) Cylinder Head Bolt ․ B7W-2518 x8 ․ B7W-2519 x12 ․ B7W-2520 x2 2) Lift Pump ․ B201-0877</p>	 <p>Fuel Pump ․ 1) B228-9129 (2 Pin) ․ 2) B349-1063 (3 Pin)</p>	 <p>1) Water Pump ․ B239-6142 2) Water Pump Gasket ․ B201-8745 3) Thermostat ․ B216-9737 ․ B220-2748 4) Thermostat Assembly</p>	 <p>1) Piston Cooling Nozzle ․ B148-3026 2) Turbocharger ․ B219-9766 ․ B219-9773 ․ B219-7618</p>

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF

(3): From ESN: 5YS11022.

(5): Use for engines that have a crank driven balancer unit

(2): To ESN: 5YS11021.

(4): Check application for proper use.

Engine Model:
3054

Engine Desc:
TURBOCHARGE
or NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

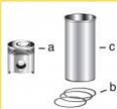
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in /
100.00 mm

Please see
page 571 for a
complete list of
equipment
models.



- 1) **Engine O/H Kit**
 - › BOK505/45
 - › BOK505/30
- 2) **Basic Engine Kit**
 - › BBK505
 - › SPEC SHEET - 3054



- Piston-Liner Kit**
 - › BCK390
- Consist of:**
 - › a) B152-1390
 - › b) B138-2073
 - › c) B111-1815



- Main Bearing Set**
 - › B067-6869 Std.
 - › B033-2379 0.010
 - › B033-2380 0.020
 - › B033-2381 0.030



- Con Rod Bearing Set**
 - › B225-7781 Std. **6**
 - › B233-3788 0.010 **6**
 - › B233-3789 0.020 **6**
 - › B233-3790 0.030 **6**



- Thrust Washer Set**
 - › B032-9090/91 Std.
 - › B067-6873/74 0.007



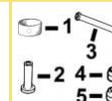
- 1) **Front Seal**
 - › B4W-5359
- 2a) **Rear Seal**
 - › B4W-5360
- 2b) **Rear Seal**
 - › B209-9218
- 3) **Crankshaft Kit**
 - › B254-0252
- 4) **Ring Gear**
 - › B7W-6247 115T
 - › B033-7687 126T



- 1) **Top Gasket Set**
 - › B175-1321
- 2) **Bottom Gasket Set**
 - › B187-4968
- 3) **Valve Cover Gsk**
 - › B200-6374
- 4) **Head Gasket**
 - › B160-0161
- 5) **Oil Pan Gasket**
 - › B032-9946



- 1) **Bush, Con Rod**
 - › B225-5438 x4
- 2) **Bolt, Con Rod**
 - › B225-5439 x8
- 3) **Con Rod**
 - › B225-5453



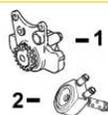
- 1) **Bushing, Cam**
 - › B036-5802 x1
- 2) **Tappet**
 - › B138-2053
- 3) **Pushrod**
 - › B067-6095
- 4) **Seal, Valve Intake**
 - › B145-6856 x4
- 5) **Seal, Valve Exhaust**
 - › B145-6858 x4

- Valve Train Kit**
 - › a) 45 b) 30
 - › a) BVTK553
 - › b) BVTK554

- 1) **Valve, Intake**
 - › a) 45 b) 30
 - › 1a) B138-2052 x4
 - › 1b) B145-6855 x4
- 2) **Valve, Exhaust**
 - › 2a) B138-2050 x4
 - › 2b) B145-6857 x4

- 3) **Guide, Valve**
 - a) **Intake**
 - › 3a) B185-0882 x4
 - › 3b) B163-9256 x4
 - b) **Exhaust**

- 4) **Spring, Valve**
 - › B206-4127 x8
- 5) **Lock, Valve**
 - › B147-1979 x16



- 1) **Oil Pump**
 - › B6I-0912
 - › B7C-3134
- 2) **Oil Cooler**
 - › B245-1372
 - › B247-6318



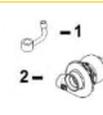
- 1) **Cylinder Head Bolt**
 - › B7W-2518 x8 **8**
 - › B7W-2519 x12
 - › B7W-2520 x2
- 2) **Lift Pump**
 - › B201-0877 **7**



- Fuel Pump**
 - › 1) B228-9129 (2 Pin) **7**
 - › 2) B349-1063 (3 Pin) **7**



- 1) **Water Pump**
 - › B239-6142
- 2) **Water Pump Gasket**
 - › B201-8745
- 3) **Thermostat**
 - › B216-9737 **7**
 - › B220-2748 **7**
- 4) **Thermostat Assembly**
 - › B220-2749 **7**



- 1) **Piston Cooling Nozzle**
 - › B148-3026
- 2) **Turbocharger**
 - › B219-9766 **7**
 - › B219-9773 **7**
 - › B219-7618 **7**

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF
 (3): From ESN: 5YS11022
 (5): For machine split rods use Con Rod Bearing B4P-9944
 (7): Check application for proper use.

(2): To ESN: 5YS11021
 (4): Fracture Split Type.
 (6): Use for rods that have a 63.5mm rod journal.
 (8): Use for engines that have a crank driven balancer unit

Engine Model:
3054B

Engine Desc:
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.055 in /
103.00 mm
Stroke: 5.00 in /
127.00 mm

ESN
5YS13499-UP

Engine Arrangement

- 185-0462
- 185-4093
- 185-1651
- 185-4388
- 185-3173
- 185-4624
- 185-3197
- 185-4788
- 185-3969
- 185-5465
- 185-3972
- 191-5836
- 185-4092

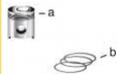


1) Engine O/H Kit

- › BOK506 Std.
- › BOK508 0.50
- › BOK509 1.00

2) Basic Engine Kit

- › BBK506 Std.
- › BBK508 0.50
- › BBK509 1.00
- › SPEC SHEET - 3054B



a) Piston

- › B185-0104 Std.
- › B185-0106 0.50
- › B185-0107 1.00

b) Ring Set

- › B185-0109 Std.
- › B185-0110 0.50
- › B185-0111 1.00

4 Per Engine



Main Bearing Set

- › B067-6869 Std.
- › B033-2379 0.010
- › B033-2380 0.020
- › B033-2381 0.030

Set of 4 Pairs



Con Rod Bearing Set

- › B4P-9944 Std.
- › B4P-9945 0.010
- › B4P-9946 0.020
- › B4P-9947 0.030

Set of 4 Pairs



Thrust Washer

- › B032-9090/91 Std.
- › B067-6873/74 0.007

Set of 2 Pairs



1) Front Seal

- › B4W-5359

2a) Rear Seal

- › B4W-5360

1

2b) Rear Seal

- › B209-9218

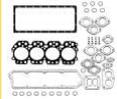
2

3) Crankshaft Kit

- › B4P-9948

4) Ring Gear

- › B7W-6247 115T
- › B033-7687 126T



1) Top Gasket Set

- › B187-1290

2) Bottom Gasket Set

- › B187-4968

3) Valve Cover Gsk

- › B200-6374

4) Head Gasket

- › B185-0885



1) Bush, Con Rod

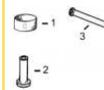
- › B138-2048 x4

2) Bolt, Con Rod

- › B067-6883 x8

3) Nut, Con Rod

- › B7W-2505 x8



1) Bushing, Cam

- › B036-5802 x1

2) Tappet

- › B138-2053

3) Pushrod

- › B067-6095



1) Seal, Valve Intake

- › B154-6856 x4

2) Seal, Valve Ex

- › B154-6858 x4

Valve Train Kit

- › BVTK555

1) Valve, Intake

- › B176-3134 x4

2) Valve, Exhaust

- › B176-3137 x4

3) Guide, Valve

a) Intake

- › 3a) B185-0882 x4

b) Exhaust

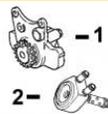
- › 3b) B163-9256 x4

4) Spring, Valve

- › B176-3139 x8

5) Lock, Valve

- › B147-1979 x16



1) Oil Pump

- › B6I-0253
- › B7C-3134

2) Oil Cooler

- › B245-1372
- › B247-6318

4

3

3



Lift Pump

- › B201-0877

4



1) Water Pump

- › B239-6142

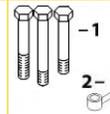
2) Thermostat

- › B220-2748



Fuel Lines

- › 1) B230-8995
- › 2) B230-8996
- › 3) B230-8997
- › 4) B230-8998



1) Cylinder Head Bolt

- › B7W-2518 x8
- › B7W-2519 x12
- › B7W-2520 x2

2) Piston Cooling Nozzle

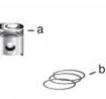
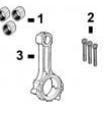
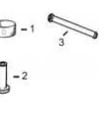
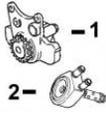
- › B148-3026

(1): To ESN: 5MF1183.

(3): Check application for proper usage

(2): From ESN: 5MF1184.

(4): For engines with balancer unit.

<p>Engine Model: 3054B</p> <p>Engine Desc: NATURALLY ASPIRATED</p> <p>Engine Data: INDUSTRIAL ENGINE</p> <p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 4.055 in / 103.00 mm Stroke: 5.00 in / 127.00 mm</p>	 <p>1) Engine O/H Kit</p> <ul style="list-style-type: none"> › BOK507 Std. › BOK510 0.50 › BOK511 1.00 <p>2) Basic Engine Kit</p> <ul style="list-style-type: none"> › BBK507 Std. › BBK510 0.50 › BBK511 1.00 › SPEC SHEET - 3054B 	 <p>a) Piston</p> <ul style="list-style-type: none"> › B185-0104 Std. › B185-0106 0.50 › B185-0107 1.00 <p>b) Ring Set</p> <ul style="list-style-type: none"> › B185-0109 Std. › B185-0110 0.50 › B185-0111 1.00 <p>4 Per Engine</p>	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> › B067-6869 Std. › B033-2379 0.010 › B033-2380 0.020 › B033-2381 0.030 <p>Set of 4 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> › B225-7781 Std. 4 › B233-3788 0.010 4 › B233-3789 0.020 4 › B233-3790 0.030 4 <p>Set of 4 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> › B032-9090/91 Std. › B067-6873/74 0.007 <p>Set of 2 Pairs</p>
<p>ESN 5MF10870-UP</p> <p>Arrangement Number 187-8016</p>	 <p>1) Front Seal</p> <ul style="list-style-type: none"> › B4W-5359 <p>2a) Rear Seal</p> <ul style="list-style-type: none"> › B4W-5360 1 <p>2b) Rear Seal</p> <ul style="list-style-type: none"> › B209-9218 2 <p>3) Crankshaft Kit</p> <ul style="list-style-type: none"> › B254-0252 <p>4) Ring Gear</p> <ul style="list-style-type: none"> › B7W-6247 115T › B033-7687 126T 	 <p>1) Top Gasket Set</p> <ul style="list-style-type: none"> › B187-1290 <p>2) Bottom Gasket Set</p> <ul style="list-style-type: none"> › B187-4968 1 <p>3) Valve Cover Gsk</p> <ul style="list-style-type: none"> › B200-6374 2 <p>4) Head Gasket</p> <ul style="list-style-type: none"> › B185-0885 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> › B225-5438 x4 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> › B225-5439 x8 <p>3) Con Rod</p> <ul style="list-style-type: none"> › B225-5453 4 3 	 <p>1) Bushing, Cam</p> <ul style="list-style-type: none"> › B036-5802 x1 <p>2) Tappet</p> <ul style="list-style-type: none"> › B138-2053 <p>3) Pushrod</p> <ul style="list-style-type: none"> › B067-6095 	 <p>1) Seal, Valve Intake</p> <ul style="list-style-type: none"> › B154-6856 x4 <p>2) Seal, Valve Ex</p> <ul style="list-style-type: none"> › B154-6858 x4
<p>Valve Train Kit</p> <ul style="list-style-type: none"> › BVTK555 	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> › B176-3134 x4 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> › B176-3137 x4 	<p>3) Guide, Valve</p> <p>a) Intake</p> <ul style="list-style-type: none"> › 3a) B185-0882 x4 › 3b) B163-9256 x4 <p>b) Exhaust</p>	<p>4) Spring, Valve</p> <ul style="list-style-type: none"> › B176-3139 x8 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> › B147-1979 x16 	
 <p>1) Oil Pump</p> <ul style="list-style-type: none"> › B6I-0253 › B7C-3134 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> › B245-1372 	 <p>Lift Pump</p> <ul style="list-style-type: none"> › B201-0877 5 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> › B239-6142 <p>2) Thermostat</p> <ul style="list-style-type: none"> › B220-2748 	 <p>1) Cylinder Head Bolt</p> <ul style="list-style-type: none"> › B7W-2518 x8 › B7W-2519 x12 › B7W-2520 x2 <p>2) Piston Cooling Nozzle</p> <ul style="list-style-type: none"> › B148-3026 		
<p>(1): To ESN: 5MF1183. (3): Fracture Split Type: Grade J. (5): For engines with a balancer unit.</p>		<p>(2): From ESN: 5MF1184. (4): Use for rods that have a 63.5mm rod journal.</p>			

Engine Model:
3054C/E

Engine Desc:
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
4 Cyl

Engine Dimensions:

Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3 / 4.4 Lt

Please see
page 572 for a
complete list of
equipment
models.

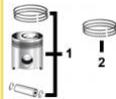


1) Engine O/H Kit

- BOK512 Std.
- BOK513 0.50
- BOK514 1.00

2) Basic Engine Kit

- BBK512 Std.
- BBK513 0.50
- BBK514 1.00
- SPEC SHEET - 3054 C-E



1) Piston Kit

- B233-7232 Std.
- B288-9942 0.50
- B288-9943 1.00

2) Ring Set

- B233-7231 Std.
- B334-1996 0.50
- B334-1997 1.00

4 Per Engine



Main Bearing Set

- B225-7772 Std.
- B233-3784 0.010
- B233-3785 0.020
- B233-3786 0.030

Set of 5 Pairs



Con Rod Bearing Set

- B225-7781 Std. **4**
- B233-3788 0.010 **4**
- B233-3789 0.020 **4**
- B233-3790 0.030 **4**

Set of 4 Pairs



Thrust Washer

- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) Front Seal

- B4W-5359

2) Rear Seal

- B232-7449

3) Crankshaft Kit

- B232-7400
- B359-0715

4) Ring Gear

- B7W-6247 115T
- B033-7687 126T

5) Crankshaft Gear

- B216-8314



1) Top Gasket Set

- B276-3420

2) Bottom Gasket Set

- B233-0333

3) Head Gasket

- B240-7194 **6**

4) Valve Cover Gsk

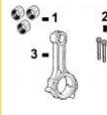
- B225-6451 **7**

5) Timing Cover Gsk

- B226-8766

6) Oil Pan Gasket

- B225-6005



1) Bush, Con Rod

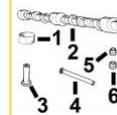
- B225-5438 x4

2) Bolt, Con Rod

- B225-5439 x8 **3**

3) Con Rod

- B225-5453 **4**



1) Bushing, Cam

- B232-7440 x1

2) Camshaft

- B350-1846

3) Tappet

- B138-2053

4) Pushrod

- B067-6095

5) Seal, Valve Ex

- B252-6438 x4

6) Seal, Intake Valve

- B254-3954 x4

7) Cam and Lifter Kit

- B350-1846KIT

Valve Train Kit

- BVTK557

1) Valve, Intake

- B225-5495 x4

2) Valve, Exhaust

- B225-5499 x4

3) Guide, Valve (Intake & Exhaust)

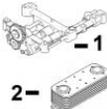
- 3) B185-0882 x8

4) Spring, Valve

- B225-5496 x8

5) Lock, Valve

- B147-1979 x16

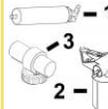


1) Oil Pump

- B225-8329 **1**

2) Oil Cooler

- B233-7222 5 plates **5**



1) Lift Pump

- B350-4315

2) Lift Pump

- B232-7808 **5**

3) Fuel Pump

- B228-9129 (2 Pin) **5**



1) Water Pump

- B225-8016

2) Thermostat

- B254-2267 **5**
- B254-2268 **5**
- B254-2269 **5**



Water Pump Gasket

- B225-8019



Repair Sleeve

- 105RS
- 2) Head Bolts**
- B225-5501 x7
- B225-5502 x3



1) Glowplug

- B453-3510 x4

2) Injector

- B266-6830 **5**

3) Piston Cooling Nozzle

- B276-5605

(1): Not to be used on Engines with Balancer Units.

(3): Bottom gasket contains: B226-8766 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(5): Check application for proper use.

(7): 68mm rod journal, non-splined nose

(2): Grade J.

(4): Use for rods that have a 63.5mm rod journal.

(6): 63.5mm rod journal, splined nose

Engine Model:
3054C/E

Engine Desc:
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3 / 4.4 Lt



1) Engine O/H Kit

- › BOK515 Std. 4
- › BOK516 0.50 4
- › BOK517 1.00 4

(Rod Brg OD 68 mm)

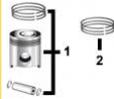
- › BOK515S Std. 8
- › BOK516S 0.50 8
- › BOK517S 1.00 8

2) Basic Engine Kit

- › BBK515 Std. 4
- › BBK516 0.50 4
- › BBK517 1.00 4

(Rod Brg OD 68 mm)

- › BBK515S Std. 8
- › BBK516S 0.50 8
- › BBK517S 1.00 8
- › SPEC SHEET - 3054 C-E



1) Piston Kit

- › B233-7232 Std. 4
- › B288-9942 0.50 4
- › B288-9943 1.00 4

2) Ring Set

- › B233-7231 Std. 8
- › B334-1996 0.50 8
- › B334-1997 1.00 8

4 Per Engine



Main Bearing Set

- › B225-7772 Std. 4
- › B233-3784 0.010 4
- › B233-3785 0.020 4
- › B233-3786 0.030 4

Set of 5 Pairs



Con Rod Bearing Set

- › B225-7781 Std. 4
- › B233-3788 0.010 4
- › B233-3789 0.020 4
- › B233-3790 0.030 4
- › B360-3986 Std. 8
- › B468-7762 0.010 8
- › B468-7769 0.020 8
- › B468-7770 0.030 8

Set of 4 Pairs



Thrust Washer

- › B032-9090/91 Std. 4
- › B067-6873/74 0.007 4

Set of 2 Pairs

ESN

3341-UP

Compact Track Loaders

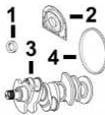
RC-85

Eco Log

554B -
Forwarder

Engine Arrangement

207-1101
207-1102



1) Front Seal

- › B4W-5359

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

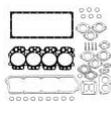
- › B232-7400 6
- › B359-0715 7

4) Ring Gear

- › B7W-6247 115T
- › B033-7687 126T

5) Crankshaft Gear

- › B216-8314



1) Top Gasket Set

- › B276-3420

2) Bottom Gasket Set

- › B237-5942 3

3) Head Gasket

- › B240-7194 6

4) Valve Cover Gsk

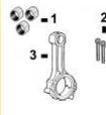
- › B225-6451

5) Timing Cover Gsk

- › B225-8287

6) Oil Pan Gasket

- › B237-5932



1) Bush, Con Rod

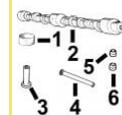
- › B225-5438 x4

2) Bolt, Con Rod

- › B225-5439 x8 5
- › B323-9312 x8 5

3) Con Rod

- › B225-5453 4
- › B359-0722 8



1) Bushing, Cam

- › B232-7440 x1

2) Camshaft

- › B350-1846

3) Tappet

- › B138-2053

4) Pushrod

- › B067-6095

5) Seal, Exhaust Valve

- › B252-6438 x4

6) Seal, Intake Valve

- › B254-3954 x4

7) Cam and Lifter Kit

- › B350-1846KIT

Valve Train Kit

- › BVTK557

1) Valve, Intake

- › B225-5495 x4

2) Valve, Exhaust

- › B225-5499 x4

3) Guide, Valve

(Intake & Exhaust)

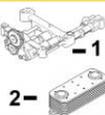
- › 3) B185-0882 x8

4) Spring, Valve

- › B225-5496 x8

5) Lock, Valve

- › B147-1979 x16

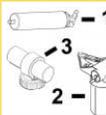


1) Oil Pump

- › B225-8329 1

2) Oil Cooler

- › B233-7222 5 plates 5



1) Lift Pump

- › B350-4315 5

2) Lift Pump

- › B232-7808 5

3) Fuel Pump

- › B228-9129 (2 Pin) 5



1) Water Pump

- › B225-8016 5

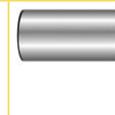
2) Thermostat

- › B254-2267 5
- › B254-2268 5
- › B254-2269 5



Water Pump Gasket

- › B225-8019

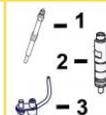


Repair Sleeve

- › 105RS

2) Head Bolts

- › B225-5501 x7
- › B225-5502 x3



1) Glowplug

- › B453-3510 x4

2) Injector

- › B266-6830 5

3) Piston Cooling Nozzle

- › B276-5605

(1): Not to be used on Engines with Balancer Units.

(3): Bottom gasket contains: B225-8287 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(5): Check application for proper use.

(7): 68mm rod journal, non-splined nose

(2): Grade J.

(4): Use for rods that have a 63.5mm rod journal.

(6): 63.5mm rod journal, splined nose

(8): Use for rods that have a 68mm rod journal.

Engine Model:
3054C/E

Engine Desc:
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
4 Cyl

Engine Dimensions:

Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3 / 4.4 Lt

Please see
page 573 for a
complete list of
equipment
models.

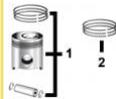


1) Engine O/H Kit

- › BOK530 Std.
- › BOK531 0.50
- › BOK532 1.00

2) Basic Engine Kit

- › BBK530 Std.
- › BBK531 0.50
- › BBK532 1.00
- › SPEC SHEET - 3054 C-E



1) Piston Kit

- › B233-7232 Std.
- › B288-9942 0.50
- › B288-9943 1.00

2) Ring Set

- › B233-7231 Std.
- › B334-1996 0.50
- › B334-1997 1.00

4 Per Engine



Main Bearing Set

- › B225-7772 Std.
- › B233-3784 0.010
- › B233-3785 0.020
- › B233-3786 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › B225-7781 Std. **4**
- › B233-3788 0.010 **4**
- › B233-3789 0.020 **4**
- › B233-3790 0.030 **4**

Set of 4 Pairs



Thrust Washer

- › B032-9090/91 Std.
- › B067-6873/74 0.007

Set of 2 Pairs



1) Front Seal

- › B4W-5359

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

- › B232-7400
- › B359-0715

4) Ring Gear

- › B7W-6247 115T
- › B033-7687 126T

5) Crankshaft Gear

- › B216-8314



1) Top Gasket Set

- › B276-3420

2) Bottom Gasket Set

- › B272-2232

3) Head Gasket

- › B240-7194

4) Valve Cover Gsk

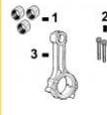
- › B225-6451

5) Timing Cover Gsk

- › B225-8287

6) Oil Pan Gasket

- › B225-6005



1) Bush, Con Rod

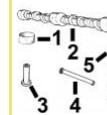
- › B225-5438 x4

2) Bolt, Con Rod

- › B225-5439 x8
- › B323-9312 x8

3) Con Rod

- › B225-5453
- › B359-0722



1) Bushing, Cam

- › B232-7440 x1

2) Camshaft

- › B350-1846

3) Tappet

- › B138-2053

4) Pushrod

- › B067-6095

5) Seal, Exhaust Valve

- › B252-6438 x4

6) Seal, Intake Valve

- › B254-3954 x4

7) Cam and Lifter Kit

- › B350-1846KIT

Valve Train Kit

- › BVTK557

1) Valve, Intake

- › B225-5495 x4

2) Valve, Exhaust

- › B225-5499 x4

3) Guide, Valve (Intake & Exhaust)

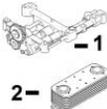
- › 3) B185-0882 x8

4) Spring, Valve

- › B225-5496 x8

5) Lock, Valve

- › B147-1979 x16



1) Oil Pump

- › B225-8329

2) Oil Cooler

- › B233-7222



1) Lift Pump

- › B350-4315

2) Lift Pump

- › B232-7808

3) Fuel Pump

- › B228-9129 (2 Pin)

4) Fuel Pump

- › B349-1063 (8 Pin)



1) Water Pump

- › B225-8016

2) Thermostat

- › B254-2267

- › B254-2268

- › B254-2269



Water Pump Gasket

- › B225-8019



Repair Sleeve

- › 105RS

2) Head Bolts

- › B225-5501 x7

- › B225-5502 x3



1) Glowplug

- › B453-3510 x4

2) Injector

- › B266-6830

3) Piston Cooling Nozzle

- › B276-5605

(1): Not to be used on Engines with Balancer Units.

(3): Bottom gasket contains: B225-8287 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(5): Check application for proper use.

(7): 68mm rod journal, non-splined nose

(9): Use for rods that have a 68mm rod journal.

(2): Grade J.

(4): Check your connecting rod journal outside diameter for the proper connecting rod bearings.

(6): 63.5mm rod journal, splined nose

(8): Use for rods that have a 63.5mm rod journal.

Engine Model:
3054C/E

Engine Desc:
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3 / 4.4 Lt



1) Engine O/H Kit

- › BOK560 Std. **4**
- › BOK561 0.50 **4**
- › BOK562 1.00 **4**

(Rod Brg OD 68 mm)

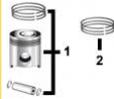
- › BOK560S Std. **8**
- › BOK561S 0.50 **8**
- › BOK562S 1.00 **8**

2) Basic Engine Kit

- › BBK560 Std. **4**
- › BBK561 0.50 **4**
- › BBK562 1.00 **4**

(Rod Brg OD 68 mm)

- › BBK560S Std. **8**
- › BBK561S 0.50 **8**
- › BBK562S 1.00 **8**
- › SPEC SHEET - 3054 C-E



1) Piston Kit

- › B233-7232 Std. **4**
- › B288-9942 0.50 **4**
- › B288-9943 1.00 **4**

2) Ring Set

- › B233-7231 Std. **8**
- › B334-1996 0.50 **8**
- › B334-1997 1.00 **8**

4 Per Engine



Main Bearing Set

- › B225-7772 Std. **4**
- › B233-3784 0.010 **4**
- › B233-3785 0.020 **4**
- › B233-3786 0.030 **4**

Set of 5 Pairs



Con Rod Bearing Set

- › B225-7781 Std. **4**
- › B233-3788 0.010 **4**
- › B233-3789 0.020 **4**
- › B233-3790 0.030 **4**
- › B360-3986 Std. **8**
- › B468-7762 0.010 **8**
- › B468-7769 0.020 **8**
- › B468-7770 0.030 **8**

Set of 4 Pairs



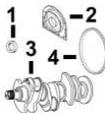
Thrust Washer

- › B032-9090/91 Std. **4**
- › B067-6873/74 0.007 **4**

Set of 2 Pairs

Eco Log

554B -
Forwarder



1) Front Seal

- › B4W-5359

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

- › B232-7400 **6**
- › B359-0715 **7**

4) Ring Gear

- › B7W-6247 115T
- › B033-7687 126T

5) Crankshaft Gear

- › B216-8314



1) Top Gasket Set

- › B276-3420

2) Bottom Gasket Set

- › B290-2495 **3**

3) Head Gasket

- › B240-7194 **6**

4) Valve Cover Gsk

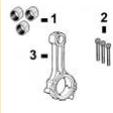
- › B225-6451

5) Timing Cover Gsk

- › B226-8766

6) Oil Pan Gasket

- › B237-5932



1) Bush, Con Rod

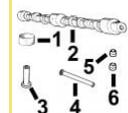
- › B225-5438 x4

2) Bolt, Con Rod

- › B225-5439 x8 **9**

3) Con Rod

- › B225-5453 **2**
- › B359-0722 **10**



1) Bushing, Cam

- › B232-7440 x1

2) Camshaft

- › B350-1846

3) Tappet

- › B138-2053

4) Pushrod

- › B067-6095

5) Seal, Exhaust Valve

- › B252-6438 x4

6) Seal, Intake Valve

- › B254-3954 x4

7) Cam and Lifter Kit

- › B350-1846KIT

Valve Train Kit

- › BVTK557

1) Valve, Intake

- › B225-5495 x4

2) Valve, Exhaust

- › B225-5499 x4

3) Guide, Valve

(Intake & Exhaust)

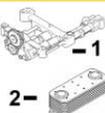
- › 3) B185-0882 x8

4) Spring, Valve

- › B225-5496 x8

5) Lock, Valve

- › B147-1979 x16



1) Oil Pump

- › B225-8329 **1**

2) Oil Cooler

- › B233-7222 **5**



1) Lift Pump

- › B350-4315 **1**

2) Lift Pump

- › B232-7808 **5**

3) Fuel Pump

- › B228-9129 (2 Pin) **5**



1) Water Pump

- › B225-8016 **5**

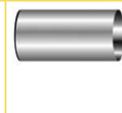
2) Thermostat

- › B254-2267 **5**
- › B254-2268 **5**
- › B254-2269 **5**



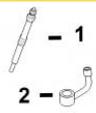
Water Pump Gasket

- › B225-8019



Repair Sleeve

- › 105RS
- 2) Head Bolts**
- › B225-5501 x7
- › B225-5502 x3



1) Glowplug

- › B453-3510 x4

2) Piston Cooling Nozzle

- › B148-3026

(1): Not to be used on Engines with Balancer Units.

(3): Bottom gasket contains: B226-8766 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(5): Check application for proper use.

(7): 68mm rod journal, non-splined nose

(9): Use for cranks with 63.5mm journal.

(2): Grade J.

(4): Use for rods that have a 63.5mm rod journal.

(6): 63.5mm rod journal, splined nose

(8): Use for rods that have a 68mm rod journal.

(10): Use for cranks with 68mm journal.

Engine Model:

3054C/E

Engine Desc:

TURBOCHARGED

Engine Data:

INDUSTRIAL ENGINE

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Lt

Please see page 574 for a complete list of equipment models.



1) **Engine O/H Kit**

- BOK518 Std. 4
- BOK519 0.50 4
- BOK520 1.00 4

(Rod Brg OD 68 mm)

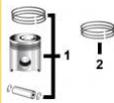
- BOK518S Std. 9
- BOK519S 0.50 9
- BOK520S 1.00 9

2) **Basic Engine Kit**

- BBK518 Std. 4
- BBK519 0.50 4
- BBK520 1.00 4

(Rod Brg OD 68 mm)

- BBK518S Std. 9
- BBK519S 0.50 9
- BBK520S 1.00 9
- SPEC SHEET - 3054 C-E



1) **Piston Kit**

- B225-5437 Std. 4
- B288-1394 0.50 4
- B288-1395 1.00 4

2) **Ring Set**

- B225-5436 Std. 9
- B334-2319 0.50 9
- B334-2318 1.00 9

4 Per Engine



Main Bearing Set

- B225-7772 Std. 4
- B233-3784 0.010 4
- B233-3785 0.020 4
- B233-3786 0.030 4

Set of 5 Pairs



Con Rod Bearing Set

- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 Std. 9
- B468-7762 0.010 9
- B468-7769 0.020 9
- B468-7770 0.030 9

Set of 4 Pairs



Thrust Washer

- B032-9090/91 Std. 4
- B067-6873/74 0.007 4

Set of 2 Pairs



1) **Front Seal**

- B4W-5359

2) **Rear Seal**

- B232-7449

3) **Crankshaft Kit**

- B232-7400 6
- B359-0715 7

4) **Ring Gear**

- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**

- B216-8314



1) **Top Gasket Set**

- B276-3420

2) **Bottom Gasket Set**

- B233-0333 3

3) **Head Gasket**

- B240-7194 6

4) **Valve Cover Gsk**

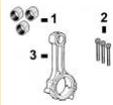
- B225-6451 7

5) **Timing Cover Gsk**

- B226-8766

6) **Oil Pan Gasket**

- B225-6005 3



1) **Bush, Con Rod**

- B225-5438 x4

2) **Bolt, Con Rod**

- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**

- B225-5453 4
- B359-0722 9



1) **Bushing, Cam**

- B232-7440 x1

2) **Camshaft**

- B350-2374

3) **Tappet**

- B138-2053

4) **Pushrod**

- B067-6095

5) **Seal, Exhaust Valve**

- B252-6438 x4

6) **Seal, Intake Valve**

- B254-3954 x4

7) **Cam and Lifter Kit**

- B350-2374KIT

Valve Train Kit

- BVTK557

1) **Valve, Intake**

- B225-5495 x4

2) **Valve, Exhaust**

- B225-5499 x4

3) **Guide, Valve**

- (Intake & Exhaust)

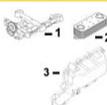
- B185-0882 x8

4) **Spring, Valve**

- B225-5496 x8

5) **Lock, Valve**

- B147-1979 x16



1) **Oil Pump**

- B225-8329 1

2) **Oil Cooler**

- B225-6817 5

3) **Oil Cooler Assembly**

- B354-1274 8



1) **Lift Pump**

- B350-4315 1
- B232-7808 5

2) **Fuel Pump**

- B228-9129 (2 Pin) 5
- B349-1063 (3 Pin) 5



1) **Water Pump**

- B225-8016 5

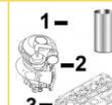
2) **Thermostat**

- B254-2267 5
- B254-2268 5
- B254-2269 5



Water Pump Gasket

- B225-8019



1) **Repair Sleeve**

- 105RS

2) **Turbocharger**

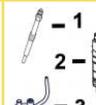
- B234-2988 5
- B237-3786 5
- B233-9534 5

3) **Cylinder Head**

- B232-7519UF

4) **Head Bolts**

- B225-5501 x7
- B225-5502 x3



1) **Glowplug**

- B453-3510 x4

2) **Injector**

- B230-8999 5

3) **Piston Cooling Nozzle**

- B276-5605

(1): Not to be used on Engines with Balancer Units.

(3): Industrial Application. Bottom gasket contains: B226-8766 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(5): Check application for proper use.

(7): 68mm rod journal, non-splined nose

(9): Use for rods that have a 68mm rod journal.

(2): Grade J.

(4): Use for rods that have a 63.5mm rod journal.

(6): 63.5mm rod journal, splined nose

(8): Includes 9 plate oil cooler core

Engine Model:

3054C/E

Engine Desc:

TURBOCHARGED

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Lt

Please see page 575 for a complete list of equipment models.



1) **Engine O/H Kit**

- BOK521 Std. 4
- BOK522 0.50 4
- BOK523 1.00 4

(Rod Brg OD 68 mm)

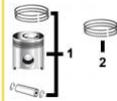
- BOK521S Std. 9
- BOK522S 0.50 9
- BOK523S 1.00 9

2) **Basic Engine Kit**

- BBK521 Std. 4
- BBK522 0.50 4
- BBK523 1.00 4

(Rod Brg OD 68 mm)

- BBK521S Std. 9
- BBK522S 0.50 9
- BBK523S 1.00 9
- SPEC SHEET - 3054 C-E



1) **Piston Kit**

- B225-5437 Std. 4
- B288-1394 0.50 4
- B288-1395 1.00 4

2) **Ring Set**

- B225-5436 Std. 9
- B334-2319 0.50 9
- B334-2318 1.00 9

4 Per Engine



Main Bearing Set

- B225-7772 Std. 4
- B233-3784 0.010 4
- B233-3785 0.020 4
- B233-3786 0.030 4

Set of 5 Pairs



Con Rod Bearing Set

- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 Std. 9
- B468-7762 0.010 9
- B468-7769 0.020 9
- B468-7770 0.030 9

Set of 4 Pairs



Thrust Washer

- B032-9090/91 Std. 4
- B067-6873/74 0.007 4

Set of 2 Pairs



1) **Front Seal**

- B4W-5359

2) **Rear Seal**

- B232-7449

3) **Crankshaft Kit**

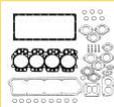
- B232-7400 6
- B359-0715 7

4) **Ring Gear**

- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**

- B216-8314



1) **Top Gasket Set**

- B276-3420

2) **Bottom Gasket Set**

- B237-5942 3

3) **Head Gasket**

- B240-7194 6

4) **Valve Cover Gsk**

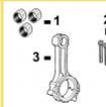
- B225-6451 7

5) **Timing Cover Gsk**

- B225-8287

6) **Oil Pan Gasket**

- B237-5932



1) **Bush, Con Rod**

- B225-5438 x4

2) **Bolt, Con Rod**

- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**

- B225-5453 4
- B359-0722 9



1) **Bushing, Cam**

- B232-7440 x1

2) **Camshaft**

- B350-2374

3) **Tappet**

- B138-2053

4) **Pushrod**

- B067-6095

5) **Seal, Exhaust Valve**

- B252-6438 x4

6) **Seal, Intake Valve**

- B254-3954 x4

7) **Cam and Lifter Kit**

- B350-2374KIT

Valve Train Kit

- BVTK557

1) **Valve, Intake**

- B225-5495 x4

2) **Valve, Exhaust**

- B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**

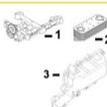
- B185-0882 x8

4) **Spring, Valve**

- B225-5496 x8

5) **Lock, Valve**

- B147-1979 x16



1) **Oil Pump**

- B225-8329 1

2) **Oil Cooler**

- B225-6817

3) **Oil Cooler Assembly**

- B354-1274 8



1) **Lift Pump**

- B350-4315 1

2) **Fuel Pump**

- B232-7808 5
- B228-9129 (2 Pin) 5



1) **Water Pump**

- B225-8016

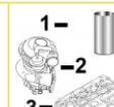
2) **Thermostat**

- B254-2267 5
- B254-2268 5
- B254-2269 5



Water Pump Gasket

- B225-8019



1) **Repair Sleeve**

- 105RS

2) **Turbocharger**

- B234-2988 5
- B237-3786 5
- B233-9534 5

3) **Cylinder Head**

- B232-7519UF

4) **Head Bolts**

- B225-5501 x7
- B225-5502 x3



1) **Glowplug**

- B453-3510 x4

2) **Injector**

- B230-8999 5

3) **Piston Cooling Nozzle**

- B276-5605

(1): Not to be used on Engines with Balancer Units.

(2): Grade J.

(3): Non Industrial Application. Bottom gasket contains: B225-8287 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(4): Use for rods that have a 63.5mm rod journal.

(5): Check application for proper use.

(6): 63.5mm rod journal, splined nose

(7): 68mm rod journal, non-splined nose

(8): Includes 9 plate oil cooler core.

(9): Use for rods that have a 68mm rod journal.

Engine Model:

3054C/E

Engine Desc:

TURBOCHARGED

Engine Data:

INDUSTRIAL ENGINE

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Lt

Please see page 576 for a complete list of equipment models.



1) **Engine O/H Kit**

- BOK533 Std. 4
- BOK534 0.50 4
- BOK535 1.00 4

(Rod Brg OD 68 mm)

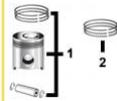
- BOK533S Std. 9
- BOK534S 0.50 9
- BOK535S 1.00 9

2) **Basic Engine Kit**

- BBK533 Std. 4
- BBK534 0.50 4
- BBK535 1.00 4

(Rod Brg OD 68 mm)

- BBK533S Std. 9
- BBK534S 0.50 9
- BBK535S 1.00 9
- SPEC SHEET - 3054 C-E



1) **Piston Kit**

- B225-5437 Std. 4
- B288-1394 0.50 4
- B288-1395 1.00 4

2) **Ring Set**

- B225-5436 Std. 9
- B334-2319 0.50 9
- B334-2318 1.00 9

4 Per Engine



Main Bearing Set

- B225-7772 Std. 4
- B233-3784 0.010 4
- B233-3785 0.020 4
- B233-3786 0.030 4

Set of 5 Pairs



Con Rod Bearing Set

- B225-7781 Std. 4
- B233-3788 0.010 4
- B233-3789 0.020 4
- B233-3790 0.030 4
- B360-3986 Std. 9
- B468-7762 0.010 9
- B468-7769 0.020 9
- B468-7770 0.030 9

Set of 4 Pairs



Thrust Washer

- B032-9090/91 Std. 4
- B067-6873/74 0.007 4

Set of 2 Pairs



1) **Front Seal**

- B4W-5359

2) **Rear Seal**

- B232-7449

3) **Crankshaft Kit**

- B232-7400 6
- B359-0715 7

4) **Ring Gear**

- B7W-6247 115T
- B033-7687 126T

5) **Crankshaft Gear**

- B216-8314



1) **Top Gasket Set**

- B276-3420

2) **Bottom Gasket Set**

- B272-2232 3

3) **Head Gasket**

- B240-7194 6

4) **Valve Cover Gsk**

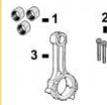
- B225-6451

5) **Timing Cover Gsk**

- B225-8287

6) **Oil Pan Gasket**

- B225-6005



1) **Bush, Con Rod**

- B225-5438 x4

2) **Bolt, Con Rod**

- B225-5439 x8 5
- B323-9312 x8 5

3) **Con Rod**

- B225-5453 4
- B359-0722 9



1) **Bushing, Cam**

- B232-7440 x1

2) **Camshaft**

- B350-2374

3) **Tappet**

- B138-2053

4) **Pushrod**

- B067-6095

5) **Seal, Exhaust Valve**

- B252-6438 x4

6) **Seal, Intake Valve**

- B254-3954 x4

7) **Cam and Lifter Kit**

- B350-2374KIT

Valve Train Kit

- BVTK557

1) **Valve, Intake**

- B225-5495 x4

2) **Valve, Exhaust**

- B225-5499 x4

3) **Guide, Valve**

- (Intake & Exhaust)

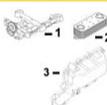
- B185-0882 x8

4) **Spring, Valve**

- B225-5496 x8

5) **Lock, Valve**

- B147-1979 x16



1) **Oil Pump**

- B225-8329 1

2) **Oil Cooler**

- B225-6817

3) **Oil Cooler Assembly**

- B354-1274 8



1) **Lift Pump**

- B350-4315 1
- B232-7808 5

2) **Fuel Pump**

- B228-9129 (2 Pin) 5
- B349-1063 (3 Pin) 5



1) **Water Pump**

- B225-8016 5

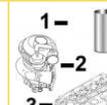
2) **Thermostat**

- B254-2267 5
- B254-2268 5
- B254-2269 5



Water Pump Gasket

- B225-8019



1) **Repair Sleeve**

- 105RS

2) **Turbocharger**

- B234-2988 5
- B237-3786 5
- B233-9534 5

3) **Cylinder Head**

- B232-7519UF

4) **Head Bolts**

- B225-5501 x7
- B225-5502 x3



1) **Glowplug**

- B453-3510 x4 5

2) **Injector**

- B230-8999 5
- B236-1674 5

3) **Piston Cooling Nozzle**

- B148-3026 5
- B276-5605 5

(1): Not to be used on Engines with Balancer Units.

(3): Bottom gasket contains: B225-8287 Timing Cover Gasket and B225-6005 Oil Pan Gasket.

(5): Check application for proper use.

(7): 68mm rod journal, non-splined nose

(9): Use for rods that have a 68mm rod journal.

(2): Grade J.

(4): Use for rods that have a 63.5mm rod journal.

(6): 63.5mm rod journal, splined nose

(8): Includes 9 plate oil cooler core.

Engine Model:

3054C/E

Engine Desc:

TURBOCHARGED

Engine Data:

INDUSTRIAL ENGINE

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt



1) **Engine O/H Kit**

- › BOK563 Std. 4
- › BOK564 0.50 4
- › BOK565 1.00 4

(Rod Brg OD 68 mm)

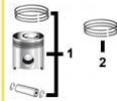
- › BOK563S Std. 9
- › BOK564S 0.50 9
- › BOK565S 1.00 9

2) **Basic Engine Kit**

- › BBK563 Std. 4
- › BBK564 0.50 4
- › BBK565 1.00 4

(Rod Brg OD 68 mm)

- › BBK563S Std. 9
- › BBK564S 0.50 9
- › BBK565S 1.00 9
- › SPEC SHEET - 3054 C-E



1) **Piston Kit**

- › B225-5437 Std. 4
- › B288-1394 0.50 4
- › B288-1395 1.00 4

2) **Ring Set**

- › B225-5436 Std. 4
- › B334-2319 0.50 4
- › B334-2318 1.00 4

4 Per Engine



Main Bearing Set

- › B225-7772 Std. 4
- › B233-3784 0.010 4
- › B233-3785 0.020 4
- › B233-3786 0.030 4

Set of 5 Pairs



Con Rod Bearing Set

- › B225-7781 Std. 4
- › B233-3788 0.010 4
- › B233-3789 0.020 4
- › B233-3790 0.030 4
- › B360-3986 Std. 9
- › B468-7762 0.010 9
- › B468-7769 0.020 9
- › B468-7770 0.030 9

Set of 4 Pairs



Thrust Washer

- › B032-9090/91 Std. 4
- › B067-6873/74 0.007 4

Set of 2 Pairs

Engine Arrangement

230-5539
296-0885
296-0886
232-9761

ESN

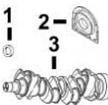
BLN
CRX107-UP
CRS
FDP
E4M
G4D
J1Z
304

Caterpillar

PS150C - Pneumatic Roller
PS300C - Pneumatic Roller
PS360C - Pneumatic Roller

Eco Log

554B - Forwarder



1) **Front Seal**

- › B4W-5359

2) **Rear Seal**

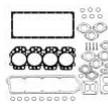
- › B232-7449

3) **Crankshaft Kit**

- › B232-7400 6
- › B359-0715 7

4) **Crankshaft Gear**

- › B216-8314



1) **Top Gasket Set**

- › B276-3420

2) **Bottom Gasket Set**

- › B290-2495

3) **Head Gasket**

- › B240-7194

4) **Valve Cover Gsk**

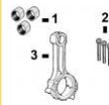
- › B225-6451

5) **Timing Cover Gsk**

- › B226-8766

6) **Oil Pan Gasket**

- › B237-5932



1) **Bush, Con Rod**

- › B225-5438 x4

2) **Bolt, Con Rod**

- › B225-5439 x8 3

3) **Con Rod**

- › B225-5453 2



1) **Bushing, Cam**

- › B232-7440 x1

2) **Camshaft**

- › B350-2374

3) **Tappet**

- › B138-2053

4) **Pushrod**

- › B067-6095

5) **Seal, Exhaust Valve**

- › B252-6438 x4

6) **Seal, Intake Valve**

- › B254-3954 x4

7) **Cam and Lifter Kit**

- › B350-2374KIT

Valve Train Kit

- › BVTK557

1) **Valve, Intake**

- › B225-5495 x4

2) **Valve, Exhaust**

- › B225-5499 x4

3) **Guide, Valve (Intake & Exhaust)**

- › B185-0882 x8

4) **Spring, Valve**

- › B225-5496 x8

5) **Lock, Valve**

- › B147-1979 x16



1) **Oil Pump**

- › B225-8329 1

2) **Oil Cooler**

- › B225-6817

3) **Oil Cooler Assembly**

- › B354-1274 8



1) **Lift Pump**

- › B350-4315 1

2) **Fuel Pump**

- › B228-9129 (2 Pin) 5
- › B349-1063 (3 Pin) 5



1) **Water Pump**

- › B225-8016 5

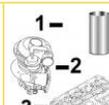
2) **Thermostat**

- › B254-2267 5
- › B254-2268 5
- › B254-2269 5



Water Pump Gasket

- › B225-8019



1) **Repair Sleeve**

- › 105RS

2) **Turbocharger**

- › B234-2988 5
- › B237-3786 5
- › B233-9534 5

3) **Cylinder Head**

- › B232-7519UF

4) **Head Bolts**

- › B225-5501 x7
- › B225-5502 x3



1) **Glowplug**

- › B453-3510 x4

2) **Piston Cooling Nozzle**

- › B148-3026

(1): Not to be used on Engines with Balancer Units.

(3): Bottom gasket contains: B226-8766 Timing Cover Gasket and B237-5932 Oil Pan Gasket.

(5): Check application for proper use.

(7): 68mm rod journal, non-splined nose

(9): Use for rods that have a 68mm rod journal.

(2): Use for cranks that have a 63.5mm journal.

(4): Use for rods that have a 63.5mm rod journal.

(6): 63.5mm rod journal, splined nose

(8): Includes 9 plate oil cooler core.

Engine Model:
3054C/E

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:

Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in³/ 4.4Lt

Please see page 577 for a complete list of equipment models.



1) Engine O/H Kit

- BOK1898
- BOK1902 0.50
- BOK1906 1.00

2) Basic Engine Kit

- BBK1898
- BBK1902 0.50
- BBK1906 1.00
- SPEC SHEET - 3054 C-E



Piston & Ring Kit

- B508-1898 Std.
- B508-1902 0.50
- B508-1906 1.00



Main Bearing Set

- B353-7423 Std.
- B353-7424 0.010
- B353-7425 0.020
- B353-7426 0.030

Set of 5 Pairs



Con Rod Bearing Set

- B360-3986 Std. **1**
- B468-7762 0.010 **1**
- B468-7769 0.020 **1**
- B468-7770 0.030 **1**

Set of 4 Pairs



Thrust Washer Set

- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) Front Seal

- B4W-5359

2) Rear Seal

- B232-7449

3) Crankshaft Kit

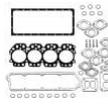
- B359-0715

4) Ring Gear

- B7W-6247 115T
- B033-7687 126T

5) Crankshaft Gear

- B216-8314



1) Top Gasket Set

- B276-3420

2) Bottom Gasket Set

- B272-2232

3) Head Gasket

- B240-7194

4) Valve Cover Gasket

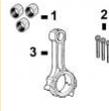
- B225-6451

5) Timing Cover Gsk

- B225-8287

6) Oil Pan Gasket

- B225-6005



1) Bush, Con Rod

- B276-7478 x4

2) Bolt, Con Rod

- B323-9312 x8

3) Connecting Rod

- B331-0290 x4



1) Bushing, Cam

- B232-7440 x1

2) Camshaft

- B350-2374

3) Tappet

- B138-2053 x8

4) Pushrod

- B067-6095 x8

5) Seal, Valve Exhaust

- B254-3954 x4

6) Seal, Valve Intake

- B252-6438 x4

7) Cam and Lifter Kit

- B350-2374KIT

Valve Train

- BVTK557

1) Valve, Intake

- B225-5495 x4

2) Valve, Exhaust

- B225-5499 x4

3) Guide, Valve (Intake & Exhaust)

- 3) B185-0882 x8

4) Spring, Valve

- B225-5496 x8

5) Lock, Valve

- B147-1979 x16



1) Oil Pump

- B225-8329 **2**

2) Oil Cooler

- B225-6817

3) Oil Cooler Assembly

- B354-1274 **4**

4) Balancer Unit Incl. Oil Pump

- B234-0615 **2**



1) Lift Pump

- B350-4315 **2**

2) Fuel Pump

- B232-7808 **2**

2) Fuel Pump

- B228-9129 (2pin) **2**

- B349-1063 (3 Pin) **2**



1) Water Pump

- B225-8016 **2**

2) Thermostat

- B254-2267

3) Water Pump Gasket

- B225-8019



Repair Sleeve

- 1) 105RS

2) Turbocharger

- B237-3786 **2**

- B234-2988 **2**

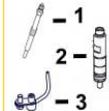
3) Cylinder Head

- B232-7519UF

4) Head Bolts

- B225-5501 x7

- B225-5502 x3



1) Glowplug

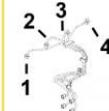
- B453-3510

2) Injector

- B236-1674 **2**

3) Piston Cooling Nozzle

- B276-5605



Fuel Lines

- 1) B230-8995

- 2) B230-8996

- 3) B230-8997

- 4) B230-8998

(1): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in. (2): Check application for proper use.

(3): 68mm rod journal, non-splined nose

(4): Includes 9 plate oil cooler core.

Engine Model: 3056	Engine Desc: NATURALLY ASPIRATED	Engine Data: INDUSTRIAL ENGINE	Engine Info: 6 Cyl	Engine Dimensions: Bore: 3.937 in / 100.00 mm
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ESN 1ML1-UP	Engine Arrangement 6I-2217 108-0497	6I-2222
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- 1) **Engine O/H Kit**
- BOK700
- 2) **Basic Engine Kit**
- BBK700
- SPEC SHEET - 3056



- Piston-Liner Kit**
- BCK264
- Consist of:**
- a) B135-0264
- b) B146-1780
- c) B6I-0164
- 6 Per Engine**

(1)



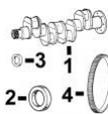
- Main Bearing Set**
- B7W-4589 Std.
- B7W-4590 0.010
- B7W-4591 0.020
- B7W-4592 0.030
- Set of 7 Pairs**



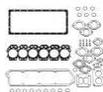
- Con Rod Bearing Set**
- B7W-4816 Std.
- B7W-4817 0.010
- B7W-4818 0.020
- B7W-4819 0.030
- Set of 6 Pairs**



- Thrust Washer Set**
- B032-9090/91 Std.
- B067-6873/74 0.007
- Set of 2 Pairs**



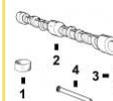
- 1) **Front Seal**
- B4W-5359
- 2) **Rear Seal**
- B4W-5360
- 3) **Crankshaft Kit**
- B193-0159
- 4) **Ring Gear**
- B033-7687 126T
- 5) **Crankshaft Gear**
- B6I-0223



- 1) **Top Gasket Set**
- B103-0081
- 2) **Bottom Gasket Set**
- B103-0080
- 3) **Head Gasket**
- B6I-3875
- 4) **Valve Cover Gasket**
- B126-2238



- 1) **Bush, Con Rod**
- B067-6158 x6
- 2) **Bolt, Con Rod**
- B067-6883 x12
- 3) **Nut, Con Rod**
- B7W-2505 x12
- 4) **Con Rod**
- B067-6879



- 1) **Bushing, Cam**
- B036-5802 x1
- 2) **Camshaft**
- B6I-4353
- 3) **Tappet**
- B138-2053
- 4) **Pushrod**
- B067-6095

- Valve Train Kit**
- BVTK750

- 1) **Valve, Intake**
- B6I-0282 x6
- 2) **Valve, Exhaust**
- B7W-4602 x6

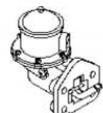
- 3) **Guide, Valve**
- a) **Intake**
- b) **Exhaust**
- 3a) B160-5436 x6
- 3b) B160-5438 x6

- 4) **Spring, Valve**
- a) **Inner**
- b) **Outer**
- 4a) B6I-0284 x12
- 4b) B6I-0283 x12

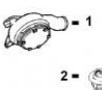
- 5) **Lock, Valve**
- B067-6834 x24
- 6) **Seal, Valve**
- B1W-5849 x12



- Oil Pump**
- B100-3717



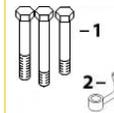
- Lift Pump**
- B132-9447



- 1) **Water Pump**
- B149-0539
- 2) **Thermostat**
- B4W-8063

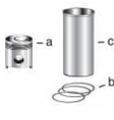
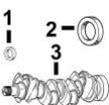
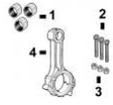
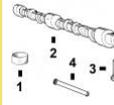
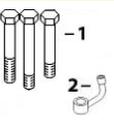


- 1) **Heater Plug**
- B035-8059
- 2) **Rocker Arm LH**
- B150-1217
- 3) **Rocker Arm RH**
- B150-1218



- 1) **Cylinder Head Bolt**
- B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2
- 2) **Piston Cooling Nozzle**
- B148-3026

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I-

Engine Model: 3056T	Engine Desc: TURBOCHARGED	Engine Data: INDUSTRIAL ENGINE	Engine Info: 6 Cyl	Engine Dimensions: Bore: 3.937 in / 100.00 mm	
ESN 1ML1-UP	Olympian GEP88SP1 GEP110		Engine Arrangement 6I-2218 6I-2219 6I-2223 6I-2224 103-8804		
 1) Engine O/H Kit • BOK701/45 • BOK701/30 2) Basic Engine Kit • BBK701 • SPEC SHEET - 3056	 Piston-Liner Kit • BCK553 Consist of: • a) B107-2553 • b) B112-7020 • c) B6I-0164 6 Per Engine	 Main Bearing Set • B7W-4589 Std. • B7W-4590 0.010 • B7W-4591 0.020 • B7W-4592 0.030 Set of 7 Pairs	 Con Rod Bearing Set • B7W-4816 Std. • B7W-4817 0.010 • B7W-4818 0.020 • B7W-4819 0.030 Set of 6 Pairs	 Thrust Washer Set • B032-9090/91 Std. • B067-6873/74 0.007 Set of 2 Pairs	
 1) Front Seal • B4W-5359 2) Rear Seal • B4W-5360 3) Crankshaft Kit • B193-0159 4) Crankshaft Gear • B6I-0223	 1) Top Gasket Set • B103-0081 2) Bottom Gasket Set • B103-0080 3) Head Gasket • B6I-3875 4) Valve Cover Gasket • B126-2238	 1) Bush, Con Rod • B7W-2510 x6 2) Bolt, Con Rod • B067-6883 x12 3) Nut, Con Rod • B7W-2505 x12 4) Con Rod • B7W-2514	 1) Bushing, Cam • B036-5802 x1 2) Camshaft • B6I-4353 3) Tappet • B138-2053 4) Pushrod • B067-6095		
Valve Train Kit • a) 45 b) 30 • a) BVTK751 • b) BVTK754	1) Valve, Intake • a) 45 b) 30 • 1a) B6I-1196 x6 • 1b) B100-4626 2) Valve, Exhaust • B7W-4602 x6	3) Guide, Valve a) Intake b) Exhaust • 3a) B160-5436 x6 • 3b) B160-5438 x6	4) Spring, Valve a) Inner b) Outer • 4a) B6I-0284 x12 • 4b) B6I-0283 x12	5) Lock, Valve • B067-6834 x24 6) Seal, Valve • B1W-5849 x12	
 Oil Pump • B100-3717	 1) Lift Pump • B132-9447 2) Turbocharger • B132-9447	 1) Water Pump • B149-0539 2) Thermostat • B4W-8063	 1) Heater Plug • B035-8059 2) Rocker Arm LH • B150-1217 3) Rocker Arm RH • B150-1218	 1) Cylinder Head Bolt • B7W-2518 x12 • B7W-2519 x18 • B7W-2520 x2 2) Piston Cooling Nozzle • B148-3026	

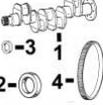
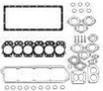
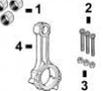
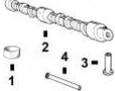
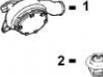
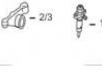
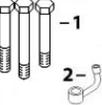
(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I-

Engine Model: 3056T	Engine Desc: TURBOCHARGED	Engine Data: INDUSTRIAL ENGINE	Engine Info: 6 Cyl	Engine Dimensions: Bore: 3.937 in / 100.00 mm
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Olympian

GEP105SP1
GEP150
GEP150-1

GEP165
GEP165-1
GEP188-1

 <p>1) Engine O/H Kit ‣ BOK706</p> <p>2) Basic Engine Kit ‣ BBK706 ‣ SPEC SHEET - 3056</p>	 <p>Piston-Liner Kit ‣ BCK529</p> <p>Consist of: ‣ a) B124-3529 ‣ b) B112-7020 ‣ c) B111-1815 (1)</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ B7W-4589 Std. ‣ B7W-4590 0.010 ‣ B7W-4591 0.020 ‣ B7W-4592 0.030</p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ B7W-4816 Std. ‣ B7W-4817 0.010 ‣ B7W-4818 0.020 ‣ B7W-4819 0.030</p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ B032-9090/91 Std. ‣ B067-6873/74 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ B4W-5359</p> <p>2) Rear Seal ‣ B4W-5360</p> <p>3) Crankshaft Kit ‣ B193-0159</p> <p>4) Ring Gear ‣ B033-7687 126T</p> <p>5) Crankshaft Gear ‣ B6I-0223</p>	 <p>1) Top Gasket Set ‣ B103-0081</p> <p>2) Bottom Gasket Set ‣ B103-0080</p> <p>3) Head Gasket ‣ B6I-3875</p> <p>4) Valve Cover Gasket ‣ B126-2238</p>	 <p>1) Bush, Con Rod ‣ B124-3531 x6</p> <p>2) Bolt, Con Rod ‣ B124-3532 x12</p> <p>3) Dowel, Con Rod ‣ B124-3533 x12</p> <p>4) Con Rod ‣ B124-3530</p>	 <p>1) Bushing, Cam ‣ B036-5802 x1</p> <p>2) Camshaft ‣ B6I-4353</p> <p>3) Tappet ‣ B138-2053</p> <p>4) Pushrod ‣ B067-6095</p>	
<p>Valve Train Kit ‣ BVTK754</p>	<p>1) Valve, Intake ‣ B100-4626 x6 (2)</p> <p>2) Valve, Exhaust ‣ B7W-4602 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) B160-5436 x6 ‣ 3b) B160-5438 x6</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) B6I-0284 x12 ‣ 4b) B6I-0283 x12</p>	<p>5) Lock, Valve ‣ B067-6834 x24</p> <p>6) Seal, Valve ‣ B1W-5849 x12</p>
 <p>Oil Pump ‣ B100-3717</p>	 <p>Lift Pump ‣ B132-9447</p>	 <p>1) Water Pump ‣ B149-0539</p> <p>2) Thermostat ‣ B4W-8063</p>	 <p>1) Heater Plug ‣ B035-8059</p> <p>2) Rocker Arm LH ‣ B150-1217</p> <p>3) Rocker Arm RH ‣ B150-1218</p>	 <p>1) Cylinder Head Bolt ‣ B7W-2518 x12 ‣ B7W-2519 x18 ‣ B7W-2520 x2</p> <p>2) Piston Cooling Nozzle ‣ B148-3026</p>

(1): Flanged Fully Finished Liner. Semi Finished Liner available B6I-0164UF.(2) 30 de

Engine Model:
3056

Engine Desc:
TURBOCHARGED
or
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in /
100.00 mm

Please see page 578 for a complete list of equipment models.



- 1) **Engine O/H Kit**
 - BOK702/45
 - BOK702/30
- 2) **Basic Engine Kit**
 - BBK702
 - SPEC SHEET - 3056



- Piston-Liner Kit**
▸ BCK390
- Consist of:**
- a) B152-1390
 - b) B138-2073
 - c) B111-1815
- 6 Per Engine**



- Main Bearing Set**
- B7W-4589 Std.
 - B7W-4590 0.010
 - B7W-4591 0.020
 - B7W-4592 0.030
- Set of 7 Pairs**



- Con Rod Bearing Set**
- B7W-4816 Std.
 - B7W-4817 0.010
 - B7W-4818 0.020
 - B7W-4819 0.030
- Set of 6 Pairs**



- Thrust Washer Set**
- B032-9090/91 Std.
 - B067-6873/74 0.007
- Set of 2 Pairs**



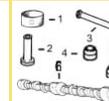
- 1) **Front Seal**
▸ B4W-5359
- 2a) **Rear Seal**
▸ B4W-5360
- 2b) **Rear Seal**
▸ B209-9218
- 3) **Crankshaft Kit**
▸ B193-0159
- 4) **Ring Gear**
▸ B033-7687 126T
- 5) **Crankshaft Gear**
▸ B61-0223



- 1) **Top Gasket Set**
▸ B187-1963
- 2) **Bottom Gasket Set**
▸ B232-3073
- 3) **Head Gasket**
▸ B61-3875



- 1) **Bush, Con Rod**
▸ B138-2048 x6
- 2) **Bolt, Con Rod**
▸ B067-6883 x12
▸ B124-3532 x12
- 3) **Nut, Con Rod**
▸ B7W-2505 x12



- 1) **Bushing, Cam**
▸ B036-5802 x1
- 2) **Tappet**
▸ B138-2053
- 3) **Pushrod**
▸ B067-6095
- 4) **Seal, Valve Intake**
▸ B145-6856 x6
- 5) **Seal, Valve Exhaust**
▸ B145-6858 x6
- 6) **Camshaft**
▸ B360-3197

- Valve Train Kit**
- a) 45 b) 30
 - a) BVTK752
 - b) BVTK753

- 1) **Valve, Intake**
▸ a) 45 b) 30
▸ 1a) B138-2052 x6
▸ 1b) B145-6855 x6
- 2) **Valve Exhaust**
▸ 2a) B138-2050 x6
▸ 2b) B145-6857 x6

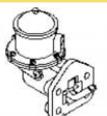
- 3) **Guide, Valve**
- a) **Intake**
▸ 3a) B185-0882 x6
▸ 3b) B163-9256 x6
- b) **Exhaust**

- 4) **Spring, Valve**
▸ B206-4127 x12

- 5) **Lock, Valve**
▸ B147-1979 x24



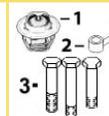
- Oil Pump**
▸ B100-3717



- Lift Pump**
▸ B132-9447



- 1) **Water Pump**
▸ B239-6142
- 2) **Water Pump Gasket**
▸ B201-8745
- 3) **Thermostat**
▸ B4W-8063
▸ B220-2748
- 4) **Thermostat Assembly**
▸ B220-2749



- 1) **Thermostat**
▸ B216-9737
- 2) **Piston Cooling Nozzle**
▸ B148-3026
- 3) **Cylinder Head Bolt**
▸ B7W-2518 x12
▸ B7W-2519 x18
▸ B7W-2520 x2

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) To ESN: 7MS1285.(3) From E
(3): Contains B360-3197 x 1 and B138-2053 x 12.

(2): Check for proper build application.

Engine Model:
3056

Engine Desc:
TURBOCHARGED
or
NATURALLY
ASPIRATED

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in /
100.00 mm

Please see page 579 for a complete list of equipment models.



- 1) **Engine O/H Kit**
 - BOK703/45
 - BOK703/30
- 2) **Basic Engine Kit**
 - BBK703
 - SPEC SHEET - 3056



- Piston-Liner Kit**
• BCK390
- Consist of:**
- a) B152-1390
 - b) B138-2073
 - c) B111-1815
- 1** Set of 7 Pairs
6 Per Engine



- Main Bearing Set**
- B7W-4589 Std.
 - B7W-4590 0.010
 - B7W-4591 0.020
 - B7W-4592 0.030
- 1** Set of 7 Pairs



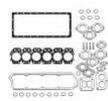
- Con Rod Bearing Set**
- B236-4397 Std.
 - B236-4397A 0.010
 - B236-4397B 0.020
 - B236-4397C 0.030
- Set of 6 Pairs**



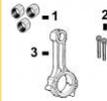
- Thrust Washer Set**
- B032-9090/91 Std.
 - B067-6873/74 0.007
- Set of 2 Pairs**



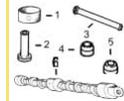
- 1) **Front Seal**
• B4W-5359
- 2a) **Rear Seal**
• B4W-5360
- 2b) **Rear Seal**
• B209-9218
- 3) **Crankshaft Kit**
• B193-0159
- 4) **Ring Gear**
• B033-7687 126T
- 5) **Crankshaft Gear**
• B61-0223



- 1) **Top Gasket Set**
• B187-1963
- 2) **Bottom Gasket Set**
• B232-3073
- 3) **Head Gasket**
• B61-3875



- 1) **Bush, Con Rod**
• B225-5438 x6
- 2) **Bolt, Con Rod**
• B225-5439 x12
- 3) **Con Rod**
• B225-5453



- 1) **Bushing, Cam**
• B036-5802 x1
 - 2) **Tappet**
• B138-2053
 - 3) **Pushrod**
• B067-6095
 - 4) **Seal, Valve Intake**
• B145-6856 x6
 - 5) **Seal, Valve Exhaust**
• B145-6858 x6
 - 6) **Camshaft**
• B360-3197
- 4**

- Valve Train Kit**
- a) 45 b) 30
 - a) BVTK752
 - b) BVTK753

- 1) **Valve, Intake**
• a) 45 b) 30
• 1a) B138-2052 x6
• 1b) B145-6855 x6
- 2) **Valve, Exhaust**
• 2a) B138-2050 x6
• 2b) B145-6857 x6

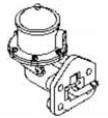
- 3) **Guide, Valve**
- a) **Intake**
• 3a) B185-0882 x6
• 3b) B163-9256 x6
- b) **Exhaust**

- 4) **Spring, Valve**
• B206-4127 x12

- 5) **Lock, Valve**
• B147-1979 x24



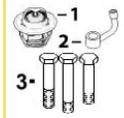
- Oil Pump**
• B100-3717



- Lift Pump**
• B132-9447



- 1) **Water Pump**
• B239-6142
- 2) **Water Pump Gasket**
• B201-8745
- 3) **Thermostat**
• B4W-8063
- B220-2748
- 4) **Thermostat Assembly**
• B220-2749



- 1) **Thermostat**
• B216-9737
- 2) **Piston Cooling Nozzle**
• B148-3026
- 3) **Cylinder Head Bolt**
• B7W-2518 x12
- B7W-2519 x18
- B7W-2520 x2

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) To ESN: 7MS1285.(3) From ESN: 7M1286.(4) Grage J; Fracture Split Type ESN
(3): Contains B360-3197 x 1 and B138-2053 x 12.

(2): Check build for proper application.

(4): Use for rods that have a 63.5mm rod journal.

Engine Model:
3056E

Engine Desc:
TURBOCHARGE

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in /
100.00 mm
Stroke: 5.00 in /
127.00 mm
Compression
Ratio:17.25:1

Please see
page **580** for a
complete list of
equipment
models.



- 1) **Engine O/H Kit**
 - › BOK704
- 2) **Basic Engine Kit**
 - › BBK704
 - › SPEC SHEET - 3056E



- Piston-Liner Kit**
› BCK323
- Consist of:**
- › a) B216-8323
 - › b) B217-1573
 - › c) B111-1815
- 6 Per Engine**



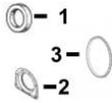
- Main Bearing Set**
- › B7W-4589 Std.
 - › B7W-4590 0.010
 - › B7W-4591 0.020
 - › B7W-4592 0.030
- Set of 7 Pairs**



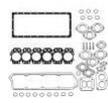
- Con Rod Bearing Set**
- › B7W-4816 Std.
 - › B7W-4817 0.010
 - › B7W-4818 0.020
 - › B7W-4819 0.030
- Set of 6 Pairs**



- Thrust Washer Set**
- › B032-9090/91 Std.
 - › B067-6873/74 0.007
- Set of 2 Pairs**



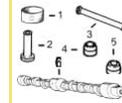
- 1) **Front Seal**
› B4W-5359
- 2) **Rear Seal**
› B209-9218
- 3) **Ring Gear**
› B033-7687 126T



- 1) **Top Gasket Set**
› B216-9612
- 2) **Bottom Gasket Set**
› B236-6930
- 3) **Head Gasket**
› B240-0205
- 4) **Valve Cover Gasket**
› B216-9604
- 5) **Oil Pan Gasket**
› B6I-4710



- 1) **Bush, Con Rod**
› B138-2048 x6
- 2) **Bolt, Con Rod**
› B067-6883 x12
- 3) **Nut, Con Rod**
› B7W-2505 x12



- 1) **Bushing, Cam**
› B036-5802 x1
- 2) **Tappet**
› B138-2053
- 3) **Pushrod**
› B067-6095
- 4) **Seal, Valve Intake**
› B145-6856 x6
- 5) **Seal, Valve Exhaust**
› B145-6858 x6
- 6) **Camshaft**
› B360-3197

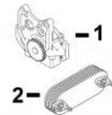
- Valve Train Kit**
› BVTK755

- 1) **Valve, Intake**
› B145-6855 x6
- 2) **Valve, Exhaust**
› B138-2050 x6

- 3) **Guide, Valve**
 - a) **Intake**
 - b) **Exhaust**
- › 3a) B185-0882 x6
- › 3b) B163-9256 x6

- 4) **Spring, Valve**
› B206-4127 x12

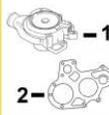
- 5) **Lock, Valve**
› B147-1979 x24



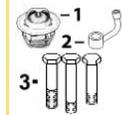
- 1) **Oil Pump**
› B216-8625
- 2) **Oil Cooler**
› B175-3915



- 1) **Lift Pump**
› B216-9043
- 2) **Injector**
› B216-9786



- 1) **Water Pump**
› B234-6110
- 2) **Water Pump Gasket**
› B201-8745



- 1) **Thermostat**
› B216-9737
- 2) **Piston Cooling Nozzle**
› B148-3026
- 3) **Cylinder Head Bolt**
 - › B7W-2518 x12
 - › B7W-2519 x18
 - › B7W-2520 x2

(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) Check application for proper usage.
(3): Contains B360-3197 x 1 and B138-2053 x 12.

(2): Check application for proper usage.

Engine Model:
3056E

Engine Desc:
TURBOCHARGE

Engine Data:
INDUSTRIAL
ENGINE

Engine Info:
6 Cyl

Engine Dimensions:

Bore: 3.937 in /
100.00 mm
Stroke: 5.00 in /
127.00 mm
Compression
Ratio:17.25:1

Please see
page **581** for a
complete list of
equipment
models.



- 1) **Engine O/H Kit**
 - › BOK705
- 2) **Basic Engine Kit**
 - › BBK705
 - › SPEC SHEET - 3056E



- Piston-Liner Kit**
› BCK323
- Consist of:**
- › a) B216-8323
 - › b) B217-1573
 - › c) B111-1815
- 6 Per Engine**



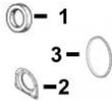
- Main Bearing Set**
- › B7W-4589 Std.
 - › B7W-4590 0.010
 - › B7W-4591 0.020
 - › B7W-4592 0.030
- Set of 7 Pairs**



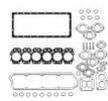
- Con Rod Bearing Set**
- › B236-4397 Std.
 - › B236-4397A 0.010
 - › B236-4397B 0.020
 - › B236-4397C 0.030
- Set of 6 Pairs**



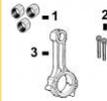
- Thrust Washer Set**
- › B032-9090/91 Std.
 - › B067-6873/74 0.007
- Set of 2 Pairs**



- 1) **Front Seal**
› B4W-5359
- 2) **Rear Seal**
› B209-9218
- 3) **Ring Gear**
› B033-7687 126T



- 1) **Top Gasket Set**
› B216-9612
- 2) **Bottom Gasket Set**
› B236-6930
- 3) **Head Gasket**
› B240-0205
- 4) **Valve Cover Gasket**
› B216-9604
- 5) **Oil Pan Gasket**
› B6I-4710



- 1) **Bush, Con Rod**
› B225-5438 x6
- 2) **Bolt, Con Rod**
› B225-5439 x12
- 3) **Con Rod**
› B225-5453



- 1) **Bushing, Cam**
› B036-5802 x1
- 2) **Tappet**
› B138-2053
- 3) **Pushrod**
› B067-6095
- 4) **Seal, Valve Intake**
› B145-6856 x6
- 5) **Seal, Valve Exhaust**
› B145-6858 x6
- 6) **Camshaft**
› B360-3197

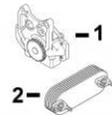
- Valve Train Kit**
› BVTK755

- 1) **Valve, Intake**
› B145-6855 x6
- 2) **Valve, Exhaust**
› B138-2050 x6

- 3) **Guide, Valve**
- a) **Intake**
› 3a) B185-0882 x6
- b) **Exhaust**
› 3b) B163-9256 x6

- 4) **Spring, Valve**
› B206-4127 x12

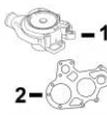
- 5) **Lock, Valve**
› B147-1979 x24



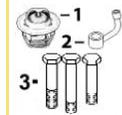
- 1) **Oil Pump**
› B216-8625
- 2) **Oil Cooler**
› B175-3915



- 1) **Lift Pump**
› B216-9043
- 2) **Injector**
› B216-9786



- 1) **Water Pump**
› B234-6110
- 2) **Water Pump Gasket**
› B201-8745



- 1) **Thermostat**
› B216-9737
- 2) **Piston Cooling Nozzle**
› B148-3026
- 3) **Cylinder Head Bolt**
› x12) B7W -2518
› x18) B7W-2519
› x2) B7W-2520

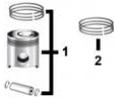
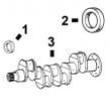
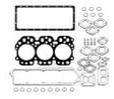
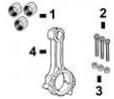
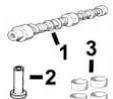
(1): Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF(2) Fracture Split Type; Grade J.(3) Check application for p

(2): Check application for proper usage.

(3): Use for rods that have a 63.5mm rod journal.

Engine Model: 3064	Engine Desc: TURBO	Engine Data: AR2013861	Engine Info: 4 Cyl	Engine Dimensions: Bore: 102.00 mm Stroke: 130.00 mm .
------------------------------	------------------------------	----------------------------------	------------------------------	---

ESN	Applications	Engine Arrangement
6LK1-Up	311 312C	311C 314C
		201-3861 205-6714 266-6194
		266-6188 205-6715 266-6186

 <p>1) Engine O/H Kit , BBK748 , SPEC SHEET - 3064T</p>	 <p>1) Piston & Ring Kit , B297-7750 <i>Std.</i> 2) Ring Set , B178-6543 <i>Std.</i></p>	 <p>Main Bearings , B5I-7588-4 <i>Std.</i> , B5I-7784-4 <i>0.25</i> , B5I-7785-4 <i>0.50</i> , B5I-7786-4 <i>0.75</i> Set of 5 Pairs</p>	 <p>Con Rod Bearings , B5I-7637-4 <i>Std.</i> , B5I-7794-4 <i>0.25</i> , B5I-7795-4 <i>0.50</i> , B5I-7796-4 <i>0.75</i> Set of 4 Pairs</p>	 <p>1) Thrust Washer , B5I-7654 <i>Std.</i></p>
 <p>1) Front Seal , B5I-7656 2) Rear Seal , B5I-7660 3) Crankshaft , B135-2419</p>	 <p>1) O/H Gasket Set , B141-4370 2) Head Gasket , B222-8330 3) Rocker Cover Gasket , B5I-7905 4) Oil Pan Gasket , B5I-7842</p>	 <p>1) Bush, Con Rod , B5I-7539 2) Bolt, Con Rod , B094-7154 3) Nut, Con Rod , B094-7516 4) Con Rod , B5I-7668</p>	 <p>1) Camshaft , B196-7999 2) Tappet , B324-4060 3) Cam Bushing Kit , B3064CBS</p>	 <p>Oil Pressure Switch , B266-6210</p>
<p>Intake Valve , B212-8477 <i>x4</i> Insert Valve , B212-8474</p>	<p>Exhaust Valve , B5I-7739 <i>x4</i> Insert Valve , B5I-8012</p>	<p>Intake Valve Guide , B183-8172 Exhaust Valve Guide , B183-8173</p>	<p>Valve Lock , B5I-7719 Valve Spring , B5I-7740 Valve Seals , B5I-7624</p>	
 <p>1) Oil Pump Ring Gear , B5I-8125 <i>9 Teeth</i> , B5I-7858 <i>9 Teeth</i> 2) Oil Pump Gasket , B178-6537 3) Oil Cooler , B135-2403 4) Oil Cooler Gasket , B5I-7862</p>	 <p>1) Fuel Lift Pump , B255-2969 2) Injector</p>	 <p>1) Water Pump , B178-6633 2) Gasket, W Pump , B096-9528</p>	 <p>1) Repair Sleeve , B5I-7523</p>	 <p>Thermostat , B5I-8010</p>

(1): Contains [1]B5I-8009, [1]B5I-7528, & [1]B5I-7529

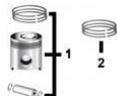
(2): Valve stem seals, Front and Rear oil seals are not included

Engine Model: 3064T **Engine Desc:** TURBO **Engine Info:** 4 Cyl **Engine Dimensions:** Bore: 102.00 mm Stroke: 130.00 mm

ESN	Applications		Arrangement Number	
6LK1-Up	311	311B	162-6333	118-9886
	312	312B	154-0626	



- 1) Engine O/H Kit**
 • BBK749
 • SPEC SHEET - 3064T



- 1) Piston & Ring Kit**
 • B297-7752 Std.
2) Ring Set
 • B5I-7538 Std



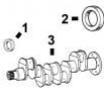
- Main Bearings**
 • B5I-7588-4 Std.
 • B5I-7784-4 0.25
 • B5I-7785-4 0.50
 • B5I-7786-4 0.75
Set of 5 Parts



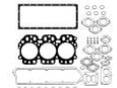
- Con Rod Bearings**
 • B5I-7637-4 Std.
 • B5I-7794-4 0.25
 • B5I-7795-4 0.50
 • B5I-7796-4 0.75
Set of 4 Parts



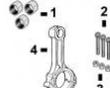
- 1) Thrust Washer**
 • B5I-7654 Std.



- 1) Front Seal**
 • B5I-7656
2) Rear Seal
 • B5I-7660
3) Crankshaft
 • B135-2419



- 1) O/H Gasket Set**
 • B141-4370 **3**
2) Head Gasket
 • B222-8330
3) Rocker Cover Gasket
 • B5I-7905
4) Oil Pan Gasket
 • B5I-7842



- 1) Bush, Con Rod**
 • B5I-7539 **3**
2) Bolt, Con Rod
 • B094-7154
3) Nut, Con Rod
 • B094-7516
4) Con Rod
 • B5I-7668



- 1) Camshaft**
 • B5I-7837
2) Tappet
 • B324-4060
3) Cam Bushing Kit
 • B3064CBS **1**



- Oil Pressure Switch**
 • B266-6210

- Intake Valve**
 • B5I-7738 x4
Insert Valve
 • B5I-8011

- Exhaust Valve**
 • B5I-7739 x4
Insert Valve
 • B5I-8012

- Intake Valve Guide**
 • B183-8172
Exhaust Valve Guide
 • B183-8173

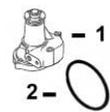
- Valve Lock**
 • B5I-7719
Valve Spring
 • B5I-7740
Valve Seals
 • B5I-7624



- 1) Oil Pump Ring Gear**
 • B5I-8125 9 Teeth
 • B5I-7858 9 Teeth
2) Oil Pump Gasket
 • B5I-7684
3) Oil Cooler
 • B135-2403
4) Oil Cooler Gasket
 • B5I-7862



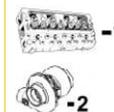
- 1) Fuel Lift Pump**
 • B5I-8145
2) Injector
 • B236-4700



- 1) Water Pump**
 • B125-2989
2) Gasket, W Pump
 • B096-9528
3) Thermostat
 • B5I-8010



- Repair Sleeve**
 • B5I-7523



- Cylinder Head**
 • B5I-7836UF **2**
2) Turbocharger
 • B5I-8122 **2**

(1): Contains [1]B5I-8009, [1]B5I-7528, & [1]B5I-7529
 (3): Valve stem seals, Front and Rear oil seals are not included

(2): Check application for proper usage.

Engine Model:
3066

Engine Desc:
TURBO

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

ESN

1XM - UP
5BR - UP
6CR1 - UP
7JK01661-04480
7JK08058-19537

Arrangement Number

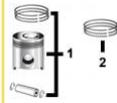
214-4457
131-9017
176-5032
109-9514
71-7758
71-7674

Machine Models

320 - Excavator
320L - Excavator
320N - Excavator
320B - Excavator
320BL - Excavator
322B - Excavator



- 1) Engine O/H Kit**
 › BBK752 Std.
 › SPEC SHEET - 3066



- 1) Piston & Ring Kit**
 › B297-7752 Std.
2) Ring Set
 › B51-7538 Std



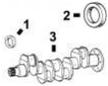
- Main Bearings**
 › B51-7588 Std.
 › B51-7784 0.25
 › B51-7785 0.50
 › B51-7786 0.75
Set of 7 Pairs



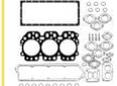
- Con Rod Bearings**
 › B51-7637 Std.
 › B51-7794 0.25
 › B51-7795 0.50
 › B51-7796 0.75
Set of 6 Pairs



- 1) Thrust Washer**
 › B51-7654 Std.



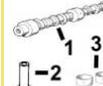
- 1) Front Seal**
 › B51-7656
2) Rear Seal
 › B185-9110
 › B51-7660
3) Crankshaft
 › B125-3005



- 1) O/H Gasket Set**
 › B135-2371
2) Head Gasket
 3 › B222-8331
3) Rocker Cover Gasket
 4 › B51-8002
 › B51-7733
4) Oil Pan Gasket
 › B51-7666



- 1) Bush, Con Rod**
 › B51-7539
2) Bolt, Con Rod
 › B094-7154
3) Nut, Con Rod
 › B094-7516
4) Con Rod
 › B51-7668



- 1) Camshaft**
 › B51-8068
2) Tappet
 › B324-4060
3) Cam Bushing Kit
 › B3066CBS 2



- Oil Pressure Switch**
 › B266-6210

- Intake Valve**
 › B51-7738 x6
Valve Insert
 › B51-8011

- Exhaust Valve**
 › B51-7739 x6
Valve Insert
 › B51-8012

- Intake Valve Guide**
 › B183-8172
Exhaust Valve Guide
 › B183-8173

- Valve Lock**
 › B51-7719
Valve Spring
 › B51-7740
Valve Seals
 › B51-7624



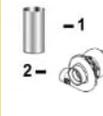
- 1) Oil Pump Ring Gear**
 › B125-2950 9 Teeth
 › B51-7558 9 Teeth
2) Oil Pump Gasket
 › B51-7684
3) Oil Cooler
 › B125-2970
4) Oil Filter Gasket
 › B125-2979
5) Oil Cooler Gasket
 › B51-7690



- 1) Fuel Lift Pump**
 › B255-2969
2) Injector



- 1) Water Pump**
 › B125-2989
2) Gasket, W Pump
 › B096-9528
3) Thermostat
 › B51-8010



- 1) Repair Sleeve**
 › B51-7523
2) Turbocharger
 › B51-8018



- Cylinder Head**
 › B183-8171UF Rear
 › B183-8174UF Front

(1): Forged crankshaft includes front timing gear, dowels, & keyway
 (3): Does not include metal sleeve.

(2): Contains [1]B51-8009, [2]B51-7528, & [1]B51-7529
 (4): Includes metal sleeve.

Engine Model:
3066

Engine Desc:
TURBO

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

ESN

7JK1 - UP
BBL1 - UP
BDE1 - UP
BEA1 - UP
BCN1 - UP

Arrangement Number

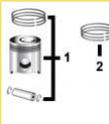
162-6351
162-6187
162-6190
162-6206
162-6351
222-8376
109-9513

Machine Models

320C - Excavator
320CL - Excavator
320CLN - Excavator
320CS - Excavator



1) Engine O/H Kit
 • BBK753 *Std.*
 • SPEC SHEET - 3066



1) Piston & Ring Kit
 • B297-7753 *Std.*
2) Ring Set
 • B178-6543 *Std.*



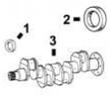
Main Bearings
 • B51-7588 *Std.*
 • B51-7784 *0.25*
 • B51-7785 *0.50*
 • B51-7786 *0.75*
Set of 7 Pairs



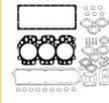
Con Rod Bearings
 • B51-7637 *Std.*
 • B51-7794 *0.25*
 • B51-7795 *0.50*
 • B51-7796 *0.75*
Set of 6 Pairs



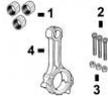
1) Thrust Washer
 • B51-7654 *Std.*



1) Front Seal
 • B324-4223
2) Rear Seal
 • B185-9110
 • B51-7660
3) Crankshaft
 • B125-3005



1) O/H Gasket Set
 • B135-2371
2) Head Gasket
 • B222-8331
3) Rocker Cover Gasket
 • B255-2993
4) Oil Pan Gasket
 • B51-7666



1) Bush, Con Rod
 • B51-7539
2) Bolt, Con Rod
 • B094-7154
3) Nut, Con Rod
 • B094-7516
4) Con Rod
 • B51-7668



1) Camshaft
 • B178-6535
2) Tappet
 • B324-4060
3) Cam Bushing Kit
 • B3066CBS
4) Push Rod
 • B51-7723



Oil Pressure Switch
 • B266-6210

Intake Valve
 • B51-7738 *x6*
Valve Insert
 • B51-8011

Exhaust Valve
 • B51-7739 *x6*
Valve Insert
 • B51-8012

Intake Valve Guide
 • B183-8172
Exhaust Valve Guide
 • B183-8173

Valve Lock
 • B51-7719
Valve Spring
 • B51-7740
Valve Seals
 • B51-7624



1) Oil Pump Ring Gear
 • B125-2950 *9 Teeth*
 • B51-7558 *9 Teeth*
2) Oil Pump Gasket
 • B178-6537
3) Oil Cooler
 • B125-2970
4) Oil Filter Gasket
 • B51-7690
5) Oil Cooler Gasket
 • B125-2979



1) Fuel Lift Pump
 • B255-2969
2) Injector



1) Water Pump
 • B178-6633
2) Gasket, W Pump
 • B096-9528
3) Thermostat
 • B51-8010



1) Repair Sleeve
 • B51-7523
2) Turbocharger
 • B51-8018



Cylinder Head
 • B183-8171UF *Rear*
 • B183-8174UF *Front*

(1): Forged crankshaft includes front timing gear, dowels, & keyway
 (3): Does not include metal sleeve.

(2): Contains [1]B51-8009, [2]B51-7528, & [1]B51-7529
 (4): Includes metal sleeve.

Engine Model:
3066

Engine Desc:
TURBO

Engine Info:
6 Cyl

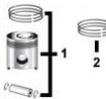
Engine Dimensions:

Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

Please see page 582 for a complete list of equipment models.



1) Engine O/H Kit
 › BBK750 *Std.*
 › SPEC SHEET - 3066



1) Piston & Ring Kit
 › B297-7750 *Std.*
2) Ring Set
 › B178-6543 *Std.*



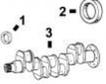
Main Bearings
 › B51-7588 *Std.*
 › B51-7784 *0.25*
 › B51-7785 *0.50*
 › B51-7786 *0.75*
Set of 7 Pairs



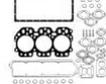
Con Rod Bearings
 › B51-7637 *Std.*
 › B51-7794 *0.25*
 › B51-7795 *0.50*
 › B51-7796 *0.75*
Set of 6 Pairs



1) Thrust Washer
 › B51-7654 *Std.*



1) Front Seal
 › B324-4223
2) Rear Seal
 › B51-7660
 › B185-9110
3) Crankshaft
 › B125-3005



1) O/H Gasket Set
 › B135-2372
2) Head Gasket
 3 › B222-8331
3) Rocker Cover Gasket
 4 › B255-2993
4) Oil Pan Gasket
 1 › B51-7666



1) Bush, Con Rod
 › B51-7539
2) Bolt, Con Rod
 › B094-7154
3) Nut, Con Rod
 › B094-7516
4) Con Rod
 › B51-7668



1) Camshaft
 › B178-6535
2) Tappet
 › B324-4060
3) Cam Bushing Kit
 › B3066CBS 2
4) Push Rod
 › B51-7723



Oil Pressure Switch
 › B266-6210

Intake Valve
 › B212-8477 x6
Valve Insert
 › B212-8474

Exhaust Valve
 › B51-7739 x6
Valve Insert
 › B51-8012

Intake Valve Guide
 › B183-8172
Exhaust Valve Guide
 › B183-8173

Valve Lock
 › B51-7719
Valve Spring
 › B51-7740
Valve Seal
 › B51-7624



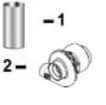
1) Oil Pump Ring Gear
 › B125-2950 9 Teeth
 › B51-7558 9 Teeth
2) Oil Pump Gasket
 › B178-6537
3) Oil Cooler
 › B125-2970
4) Oil Filter Gasket
 › B125-2979
5) Oil Cooler Gasket
 › B51-7690



1) Fuel Lift Pump
 › B255-2969
2) Injector



1) Water Pump
 › B178-6633
2) Gasket, W Pump
 › B096-9528
3) Thermostat
 › B51-8010



1) Repair Sleeve
 › B51-7523
2) Turbocharger
 › B51-8018



Cylinder Head
 › B310-9634UF *Front*
 › B310-9635UF *Rear*

(1): Forged crankshaft includes front timing gear, dowels, & keyway
 (3): Includes metal sleeve.

(2): Contains [1]B51-8009, [2]B51-7528, & [1]B51-7529
 (4): Does not include metal sleeve.

Engine Model:
3066

Engine Desc:
TURBO

Engine Info:
6 Cyl

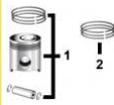
Engine Dimensions:

Bore: 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in

Please see page 583 for a complete list of equipment models.



- 1) Engine O/H Kit**
 › BBK751 *Std.*
 › SPEC SHEET - 3066



- 1) Piston & Ring Kit**
 › B297-7751 *Std.*
2) Ring Set
 › B178-6543 *Std.*



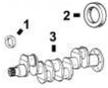
- Main Bearings**
 › B51-7588 *Std.*
 › B51-7784 *0.25*
 › B51-7785 *0.50*
 › B51-7786 *0.75*
Set of 7 Pairs



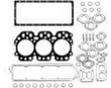
- Con Rod Bearings**
 › B51-7637 *Std.*
 › B51-7794 *0.25*
 › B51-7795 *0.50*
 › B51-7796 *0.75*
Set of 6 Pairs



- 1) Thrust Washer**
 › B51-7654 *Std.*



- 1) Front Seal**
 › B324-4223
2) Rear Seal
 › B51-7660
 › B185-9110
3) Crankshaft
 › B125-3005



- 1) O/H Gasket Set**
 › B233-1135
2) Head Gasket
 › B222-8331
3) Rocker Cover Gasket
 › B255-2993
4) Oil Pan Gasket
 › B51-7666



- 1) Bush, Con Rod**
 › B51-7539
2) Bolt, Con Rod
 › B094-7154
3) Nut, Con Rod
 › B094-7516
4) Con Rod
 › B51-7668



- 1) Camshaft**
 › B178-6535
2) Tappet
 › B324-4060
3) Cam Bushing Kit
 › B3066CBS
4) Push Rod
 › B51-7723



- Oil Pressure Switch**
 › B266-6210

- Intake Valve**
 › B212-8477 *x6*
Valve Insert
 › B212-8474

- Exhaust Valve**
 › B51-7739 *x6*
Valve Insert
 › B51-8012

- Intake Valve Guide**
 › B183-8172
Exhaust Valve Guide
 › B183-8173

- Valve Lock**
 › B51-7719
Valve Spring
 › B51-7740
Valve Seals
 › B51-7624



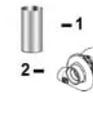
- 1) Oil Pump Ring Gear**
 › B125-2950 *9 Teeth*
 › B51-7558 *9 Teeth*
2) Oil Pump Gasket
 › B178-6537
3) Oil Cooler
 › B125-2970
4) Oil Filter Gasket
 › B125-2979
5) Oil Cooler Gasket
 › B51-7690



- 1) Fuel Lift Pump**
 › B255-2969
2) Injector



- 1) Water Pump**
 › B178-6633
2) Gasket, W Pump
 › B096-9528
3) Thermostat
 › B51-8010



- 1) Repair Sleeve**
 › B51-7523
2) Turbocharger
 › B279-7860



- Cylinder Head**
 › B310-9634UF *Front*
 › B310-9635UF *Rear*

(1): Forged crankshaft includes front timing gear, dowels, & keyway
 (3): Includes metal sleeve.

(2): Contains [1]B51-8009, [2]B51-7528, & [1]B51-7529
 (4): Does not include metal sleeve.

CATERPILLAR C2.2 NATURALLY ASPIRATED

Engine Model:
C2.2

Engine Desc:
NATURALLY
ASPIRATED

Engine Data:
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in /
84.00 mm
Stroke: 3.9 in /
100.00 mm
Displacement:
134.25 in3 / 2.2
Lt

Please see
page 584 for a
complete list of
equipment
models.

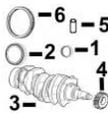


1) Engine O/H Kit

- › BOK554 Std.
- › BOK555 0.50

2) Basic Engine Kit

- › BBK554 Std.
- › BBK555 0.50
- › Spec Sheet - C2.2



1) Front Seal

- › B154-1675

2) Rear Seal

- › B154-0178

3) Crankshaft

- › B308-1852

4) Crankshaft Gear

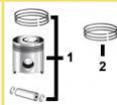
- › B308-1853

5) Key, Crank Gear

- › B153-5518

6) Flywheel Ring Gear

- › B154-2405 126T



1) Piston & Ring Kit

- › B297-3080 Std.
- › B297-3080B 0.50

4 Per Engine

2) Ring Set

- › B154-0943 Std.
- › B154-0943B 0.50



Main Bearing Set

- › B154-1203 Std.
- › B161-7163 0.010
- › B161-7164 0.020

Set of 4 Pairs



Con Rod Bearing Set

- › B146-7808 Std.
- › B307-9855 0.010
- › B307-9856 0.020

Set of 4 Pairs



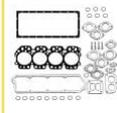
1) Thrust Washer

- › B154-1230/31 Std.

Set of 3 Pcs

2) Crank Bushing

- › B294-4916 Std.
- › B302-4181 0.010
- › B302-4182 0.020



1) O/H Gasket Set

- › BC22TOG

2) Seal Rocker

- › B217-2752

3) Seal, Cyl HD Cov

- › B233-0695

4) Oil Pan Gasket

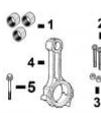
- › B215-2605

5) Cylinder Head Gasket

- › B322-7486

6) Timing Gasket Cover

- › B215-2620 (3)
- › B215-2621 (3)
- › B423-7723 (3)



1) Bush, Con Rod

- › B154-0869 x4

2) Bolt, Con Rod

- › B154-0870 x8

3) Nut, Con Rod

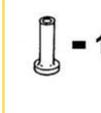
- › B154-0871 x8

4) Con Rod

- › B154-0867

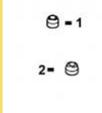
5) Head Bolt

- › B156-6988 x14
- › B156-6989 x4



1) Tappet

- › B154-1249



1) Seal, Valve Intake

- › B153-5559 x4

2) Seal, Valve Ex

- › B153-5554 x4

Valve Train Kit

- › BVTK558

1) Valve, Intake

- › B154-0888 x4

2) Valve, Exhaust

- › B154-0889 x4

3) Spring, Valve

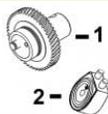
- › B153-5558 x8

4) Retainer, Valve Spring

- › B153-5557 x8 (2)

5) Lock, Valve

- › B153-5556 x16



1) Oil Pump

- › B339-3017

2) Oil Cooler

- › B245-1361



1) Lift Pump

- › B176-7712

2) Thermostat

- › B249-5541

3) Atomiser

- › B252-1446

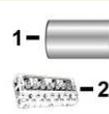
4) Fuel Water Separator

- › B276-1804



Water Pump

- › B439-4992

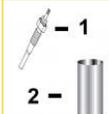


Repair Sleeve

- › 1) 84RS

2) Cylinder Head

- › B321-4061UF



1) Glowplug

- › B172-4585 x4



Fuel Lines

- › 1) B217-2760
- › 2) B217-2761
- › 3) B217-2762
- › 4) B217-2763

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853, (.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(3): Included in BC22TOG

(2): Not included in Valve Train Kit.

CATERPILLAR C2.2 TURBOCHARGED

Engine Model:

C2.2

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 3

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3 / 2.2 Lt

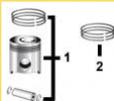


1) Engine O/H Kit

- › BOK556 Std.
- › BOK557 0.50

2) Basic Engine Kit

- › BBK556 Std.
- › BBK557 0.50
- › Spec Sheet - C2.2



1) Piston & Ring Kit

- › B270-6968 Std.
- › B270-6968B 0.50

4 Per Engine

2) Ring Set

- › B270-6970 Std.
- › B270-6970B 0.50



Main Bearing Set

- › B154-1203 Std.
- › B161-7163 0.010
- › B161-7164 0.020

Set of 4 Pairs



Con Rod Bearing Set

- › B146-7808 Std.
- › B307-9855 0.010
- › B307-9856 0.020

Set of 4 Pairs



1) Thrust Washer

- › B154-1230/31 Std.

Set of 3 Pcs

2) Crank Bushing

- › B294-4916 Std.
- › B302-4181 0.010
- › B302-4182 0.020



1) Front Seal

- › B154-1675

2) Rear Seal

- › B154-0178

3) Crankshaft

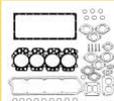
- › B308-1852

4) Crankshaft Gear

- › B308-1853

5) Key, Crank Gear

- › B153-5518



1) O/H Gasket Set

- › BC22TOG

2) Seal Rocker

- › B217-2752

3) Seal, Cyl HD Cov

- › B233-0695

4) Oil Pan Gasket

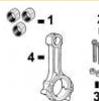
- › B215-2605

5) Cylinder Head Gasket

- › B322-7486

6) Timing Gasket Cover

- › B215-2620 (4)
- › B215-2621 (4)
- › B423-7723 (4)



1) Bush, Con Rod

- › B154-0869 x4

2) Bolt, Con Rod

- › B154-0870 x8

3) Nut, Con Rod

- › B154-0871 x8

4) Con Rod

- › B154-0867



1) Tappet

- › B154-1249



1) Seal, Valve Intake

- › B153-5559 x4

2) Seal, Valve Ex

- › B153-5554 x4

Valve Train Kit

- › BVTK558

1) Valve, Intake

- › B154-0888 x4

2) Valve, Exhaust

- › B154-0889 x4

3) Spring, Valve

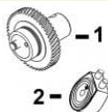
- › B153-5558 x8

4) Retainer, Valve Spring

- › B153-5557 x8 (2)

5) Lock, Valve

- › B153-5556 x16



1) Oil Pump

- › B339-3017

2) Oil Cooler

- › B245-1361



1) Lift Pump

- › B176-7712

2) Thermostat

- › B249-5541

3) Injector

- › B252-1446

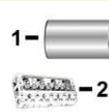
4) Fuel Water Separator

- › B276-1804



Water Pump

- › B439-4992



Repair Sleeve

- › 1) 84RS

2) Cylinder Head

- › B308-1859UF



Glowplug

- › B172-4585 x4



Turbocharger

- › B238-9349 (3)

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853, (.887" or 22.5mm Wide) and the keyway P/N B153-5518, must be used.

(3): Check application for proper usage.

(2): Under development, not included in Valve Train Kit.

(4): Included in BC22TOG.

CATERPILLAR C2.2 TURBOCHARGED-AFTERCOOLED

Engine Model:

C2.2

Engine Desc:

TURBOCHARGED
AFTERCOOLED

Engine Data:

Tier 3

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in3/ 2.2 Lt

Please see page 585 for a complete list of equipment models.



1) Engine O/H Kit

- › BOK558 Std.
- › BOK559 0.50

2) Basic Engine Kit

- › BBK558 Std.
- › BBK559 0.50
- › Spec Sheet - C2.2



1) Front Seal

- › B154-1675

2) Rear Seal

- › B154-0178

3) Crankshaft

- › B308-1852

4) Crankshaft Gear

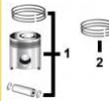
- › B308-1853

5) Key, Crank Gear

- › B153-5518

6) Flywheel Ring Gear

- › B154-2405 126T



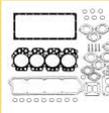
1) Piston & Ring Kit

- › B270-6968 Std.
- › B270-6968B 0.50

4 Per Engine

2) Ring Set

- › B270-6970 Std.
- › B270-6970B 0.50



1) O/H Gasket Set

- › BC22TOG

2) Seal Rocker

- › B217-2752

3) Seal, Cyl HD Cov

- › B233-0695

4) Oil Pan Gasket

- › B215-2605

5) Cylinder Head Gasket

- › B322-7486

6) Timing gasket Cover

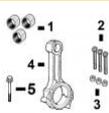
- › B215-2620 (4)
- › B215-2621 (4)
- › B423-7723 (4)



Main Bearing Set

- › B154-1203 Std.
- › B161-7163 0.010
- › B161-7164 0.020

Set of 4 Pairs



1) Bush, Con Rod

- › B154-0869 x4

2) Bolt, Con Rod

- › B154-0870 x8

3) Nut, Con Rod

- › B154-0871 x8

4) Connecting Rod

- › B154-0867

5) Head Bolt

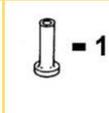
- › B156-6988 x14
- › B156-6989 x4



Con Rod Bearing Set

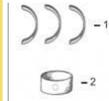
- › B146-7808 Std.
- › B307-9855 0.010
- › B307-9856 0.020

Set of 4 Pairs



1) Tappet

- › B154-1249



1) Thrust Washer

- › B154-1230/31 Std.

Set of 3 Pcs

2) Crank Bushing

- › B294-4916 Std.
- › B302-4181 0.010
- › B302-4182 0.020

Valve Train Kit

- › BVTK568

1) Valve, Intake

- › B154-0888 x4

2) Valve, Exhaust

- › B344-1624 x4

3) Spring, Valve

- › B153-5558 x8

4) Retainer, Valve Spring

- › B153-5557 x8 (2)

4) Lock, Valve

- › B153-5556 x16



1) Oil Pump

- › B339-3017

2) Oil Cooler

- › B245-1361



1) Lift Pump

- › B176-7712

2) Thermostat

- › B249-5541

3) Atomiser

- › B252-1446

4) Fuel Water Separator

- › B276-1804



Water Pump

- › B439-4992



1) Glowplug

- › B172-4585 x4

2) Cylinder Head

- › B308-1859UF

3) Repair Sleeve

- › 84RS



Turbocharger

- › B238-9349 (3)



Fuel Lines

- › 1) B217-2760
- › 2) B217-2761
- › 3) B217-2762
- › 4) B217-2763

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853, (.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(3): Check application for proper usage.

(2): Not included in valve train kit.

(4): Included in BC22TOG.

Engine Series:

C2.2

Engine Model:

C2.2 CRT

Engine Desc:

TURBOCHARGE
COMMON
RAIL
INJECTION

Engine Data:

Tier 4

Engine Info:

4 Cyl

Engine

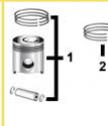
Dimensions:

Bore: 3.3 in /
84.00 mm
Stroke: 3.9 in /
100.00 mm
Displacement:
134.25 in³ / 2.2
Lt

Please see
page **586** for a
complete list of
equipment
models.



- 1) **Basic Engine Kit**
‣ BBK570 Std.
 - 2) **Basic Engine Kit**
‣ BBK571 0.50
- Spec Sheet - C2.2**



- 1) **Piston & Ring Kit**
‣ B469-8907 Std.
‣ B469-8907B 0.50
- 4 Per Engine**
- 2) **Ring Set**
‣ B444-1407 Std.
‣ B444-1407B 0.50



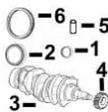
- Main Bearing Set**
‣ B154-1203 Std.
‣ B161-7163 0.010
‣ B161-7164 0.020
- Set of 4 Pairs**



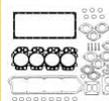
- Con Rod Bearing Set**
‣ B146-7808 Std.
‣ B307-9855 0.010
‣ B307-9856 0.020
- Set of 4 Pairs**



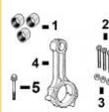
- 1) **Thrust Washer**
‣ B154-1230/31 Std.
- Set of 3 Pcs**
- 2) **Crank Bushing**
‣ B294-4916 Std.
‣ B302-4181 0.010
‣ B302-4182 0.020



- 1) **Front Seal**
‣ B154-1675
- 2) **Rear Seal**
‣ B154-0178
- 3) **Crankshaft**
‣ B308-1852
- 4) **Crankshaft Gear**
‣ B308-1853
- 5) **Key, Crank Gear**
‣ B153-5518
- 6) **Flywheel Ring Gear**
‣ B154-2405 126T



- 1) **O/H Gasket Set**
‣ BC22CROG
- 2) **Head Gasket**
‣ B322-7486
- 3) **Oil Pan Gasket**
‣ B215-2605
- 4) **Timing Cover Gasket**
‣ B532-7623
- 5) **Head Cover Seal**
‣ B480-9517
- 6) **Rocker Box Seal**
‣ B425-5331
- 7) **Exhaust Manifold Gasket**
‣ B423-7727
- 8) **Intake Spacer Plate Gasket**
‣ B424-3063
- 9) **Intake Manifold Gasket**
‣ B424-3064



- 1) **Bush, Con Rod**
‣ B154-0869 x4
- 2) **Bolt, Con Rod**
‣ B154-0870 x8
- 3) **Nut, Con Rod**
‣ B154-0871 x8
- 4) **Connecting Rod**
‣ B154-0867
- 5) **Head Bolt**
‣ B156-6988 x14
‣ B156-6989 x4

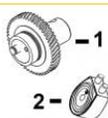


- 1) **Tappet**
‣ B154-1249

- 1) **Valve, Intake**
- 2) **Valve, Exhaust**

- 3) **Spring, Valve**
‣ B153-5558 x8
- 4) **Retainer, Valve Spring**
‣ B153-5557 x8

- 5) **Lock, Valve**
‣ B153-5556 x16
- 6) **Seal, Valve**
‣ B153-5559 x8



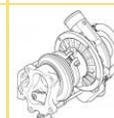
- 1) **Oil Pump**
‣ B339-3017
- 2) **Oil Cooler**
‣ B245-1361



- 1) **Water Pump**
‣ B439-4992
- 2) **Gasket, Water Pump**
‣ B303-0307
- 3) **Thermostat**
‣ B249-5541



- 1) **Repair Sleeve**
‣ 84RS x4



- Turbocharger**
‣ B480-4349

(1): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N B308-1853(.887" or 22.5mm Wide) and the key way P/N B153-5518, must be used.
(3): Check application for proper usage.
(5): For covers with 2 bolt auxiliary drive

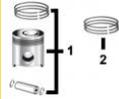
(2): Does not include crankshaft seals
(4): For covers with no auxiliary drive

Engine Model: C3.3	Engine Desc: NATURALLY ASPIRATED	Engine Data: Tier 3	Engine Info: 3 Cyl	Engine Dimensions: Bore: 4.133 in / 105.00 mm Stroke: 5.0 in / 127.00 mm Displacement: 201 in3 / 3.3 Lt
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Olympian		Engine Arrangement	
GEP26SP1	GEP33-1	266-4536	291-0356
GEP26SP2	GEP33-2	266-4537	292-7767
GEP26SP3	GEP33-3		
GEP26SP4	GEP33-4		
GEP30-1	GEP35SP-7		
GEP30-2	GEP35SP11		



- 1) Engine O/H Kit**
 - BOK542 Std.
 - BOK543 0.50
 - BOK544 1.00
- 2) Basic Engine Kit**
 - BBK542 Std.
 - BBK543 0.50
 - BBK544 1.00
 - SPEC SHEET - C3.3



- 1) Piston Kit**
 - B233-7232 Std.
 - B288-9942 0.50
 - B288-9943 1.00
- 3 Per Engine**
- 2) Ring Set**
 - B233-7231 Std.
 - B334-1996 0.50
 - B334-1997 1.00



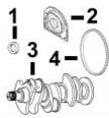
- Main Bearing Set**
 - B261-6963 Std.
 - B275-0880 0.010
 - B275-0881 0.020
 - B275-0882 0.030
- Set of 4 Pairs**



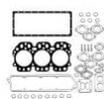
- Con Rod Bearing Set**
 - B273-9299 Std.
 - B273-9306 0.010
 - B273-9307 0.020
 - B273-9308 0.030
- Set of 3 Pairs**



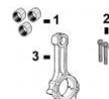
- Thrust Washer**
 - B032-9090/91 Std.
 - B067-6873/74 0.007
- Set of 2 Pairs**



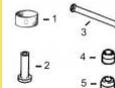
- 1) Front Seal**
 - B4W-5359
- 2) Rear Seal**
 - B232-7449
- 3) Crankshaft Kit**
 - B273-9297
- 4) Ring Gear**
 - B7W-6247 115T
 - B033-7687 126T



- 1) Top Gasket Set**
 - B291-8885
- 2) Bottom Gasket Set**
 - B275-0885
- 3) Timing Cover Gsk**
 - B225-8287
- 4) Head Gasket**
 - B273-9375
- 5) Oil Pan Gasket**
 - B274-4695



- 1) Bush, Con Rod**
 - B225-5438 x3
- 2) Bolt, Con Rod**
 - B225-5439 x6
- 3) Con Rod**
 - B225-5453
- 4) Head Bolts**
 - B225-5501 x5
 - B225-5502 x3



- 1) Bushing, Cam**
 - B232-7440 x1
- 2) Tappet**
 - B138-2053
- 3) Pushrod**
 - B067-6095
- 4) Seal, Valve Intake**
 - B252-6438 x3
- 5) Seal, Valve Exhaust**
 - B254-3954 x3

- Valve Train Kit**
 - BVTK561

- 1) Valve, Intake**
 - B225-5495
- 2) Valve, Exhaust**
 - B225-5499 x3

- 3) Guide, Valve (Intake & Exhaust)**
 - B185-0882 x6

- 4) Spring, Valve**
 - B225-5496

- 5) Lock, Valve**
 - B147-1979



- Oil Pump**
 - B225-8329
 - B231-0141



- Lift Pump**
 - B350-4315
 - B299-9267



- 1) Water Pump**
 - B225-8016
- 2) Thermostat**
 - B254-2267
 - B254-2268
 - B254-2269



- Water Pump Gasket**
 - B225-8019



- Glowplug**
 - B453-3510 x3

(1): Not to be used on Engines with Balancer Units.
(3): Check application for proper usage.

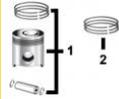
(2): Use for rods that have a 63.5mm rod journal.

Engine Model: C3.3	Engine Desc: NATURALLY ASPIRATED	Engine Data: Tier 3 INDUSTRIAL	Engine Info: 3 Cyl	Engine Dimensions: Bore: 4.133 in / 105.00 mm Stroke: 5.0 in / 127.00 mm Displacement: 201 in3 / 3.3 Lt
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ESN E3J1-UP	Olympian GEP26SP1 GEP26SP2 GEP26SP3 GEP26SP4 GEP30-1 GEP30-2	Engine Arrangement 284-5162 GEP33-1 GEP33-2 GEP33-3 GEP33-4 GEP35SP-7 GEP35SP11
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- 1) Engine O/H Kit**
 - BOK545 Std.
 - BOK546 0.50
 - BOK547 1.00
- 2) Basic Engine Kit**
 - BBK545 Std.
 - BBK546 0.50
 - BBK547 1.00
 - SPEC SHEET - C3.3



- 1) Piston Kit**
 - B233-7232 Std.
 - B288-9942 0.50
 - B288-9943 1.00
- 3 Per Engine**
- 2) Ring Set**
 - B233-7231 Std.
 - B334-1996 0.50
 - B334-1997 1.00



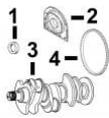
- Main Bearing Set**
 - B261-6963 Std.
 - B275-0880 0.010
 - B275-0881 0.020
 - B275-0882 0.030
- Set of 4 Pairs**



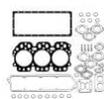
- Con Rod Bearing Set**
 - B273-9299 Std.
 - B273-9306 0.010
 - B273-9307 0.020
 - B273-9308 0.030
- Set of 3 Pairs**



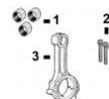
- Thrust Washer**
 - B032-9090/91 Std.
 - B067-6873/74 0.007
- Set of 2 Pairs**



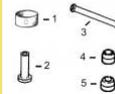
- 1) Front Seal**
 - B4W-5359
- 2) Rear Seal**
 - B232-7449
- 3) Crankshaft Kit**
 - B273-9297
- 4) Ring Gear**
 - B7W-6247 115T
 - B033-7687 126T



- 1) Top Gasket Set**
 - B291-8885
- 2) Bottom Gasket Set**
 - B275-0885/2
- 3) Timing Cover Gsk**
 - B226-8766
- 4) Head Gasket**
 - B273-9375
- 5) Oil Pan Gasket**
 - B274-4695



- 1) Bush, Con Rod**
 - B225-5438 x3
- 2) Bolt, Con Rod**
 - B225-5439 x6
- 3) Con Rod**
 - B225-5453
- 4) Head Bolts**
 - B225-5501 x5
 - B225-5502 x3



- 1) Bushing, Cam**
 - B232-7440 x1
- 2) Tappet**
 - B138-2053
- 3) Pushrod**
 - B067-6095
- 4) Seal, Valve Intake**
 - B252-6438 x3
- 5) Seal, Valve Exhaust**
 - B254-3954 x3

- Valve Train Kit**
 - BVTK561

- 1) Valve, Intake**
 - B225-5495 x3
- 2) Valve, Exhaust**
 - B225-5499 x3

- 3) Guide, Valve (Intake & Exhaust)**
 - B185-0882 x6

- 4) Spring, Valve**
 - B225-5496 x6

- 5) Lock, Valve**
 - B147-1979 x12



- Oil Pump**
 - B225-8329
 - B231-0141



- Lift Pump**
 - B350-4315
 - B299-9267



- 1) Water Pump**
 - B225-8016
- 2) Thermostat**
 - B254-2267
 - B254-2268
 - B254-2269



- Water Pump Gasket**
 - B225-8019



- Glowplug**
 - B453-3510 x3

(1): Not to be used on Engines with Balancer Units.
(3): Check application for proper usage.

(2): Grade J.

Engine Model:
C3.3T

Engine Desc:
TURBOCHARGED

Engine Data:
Tier 3
INDUSTRIAL

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.0 in / 127.00 mm
Displacement: 201 in³ / 3.3 Lt

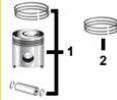


1) Engine O/H Kit

- BOK548 Std.
- BOK549 0.50
- BOK550 1.00

2) Basic Engine Kit

- BBK548 Std.
- BBK549 0.50
- BBK550 1.00
- SPEC SHEET - C3.3



1) Piston Kit

- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

3 Per Engine

2) Ring Set

- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00



Main Bearing Set

- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

Set of 4 Pairs



Con Rod Bearing Set

- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

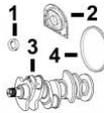
Set of 3 Pairs



Thrust Washer

- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) Front Seal

- B4W-5359

2) Rear Seal

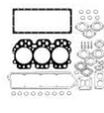
- B232-7449

3) Crankshaft Kit

- B273-9297

4) Ring Gear

- B7W-6247 115T
- B033-7687 126T



1) Top Gasket Set

- B291-8885

2) Bottom Gasket Set

- B275-0885

3) Timing Cover Gsk

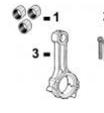
- B225-8287

4) Head Gasket

- B273-9375

5) Oil Pan Gasket

- B274-4695



1) Bush, Con Rod

- B225-5438 x3

2) Bolt, Con Rod

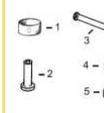
- B225-5439 x6

3) Con Rod

- B225-5453

4) Head Bolts

- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam

- B232-7440 x1

2) Tappet

- B138-2053

3) Pushrod

- B067-6095

4) Seal, Valve Intake

- B252-6438 x3

5) Seal, Valve Exhaust

- B254-3954 x3

Valve Train Kit

- BVTK561

1) Valve, Intake

- B225-5495 x3

2) Valve, Exhaust

- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)

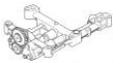
- B185-0882 x6

4) Spring, Valve

- B225-5496 x6

5) Lock, Valve

- B147-1979 x12



Oil Pump

- B225-8329



Lift Pump

- B350-4315
- B299-9267



1) Water Pump

- B225-8016

2) Thermostat

- B254-2267
- B254-2268
- B254-2269



Water Pump Gasket

- B225-8019



Glowplug

- B453-3510 x3

(1): Not to be used on Engines with Balancer Units.
(3): Check application for proper usage.

(2): Use for rods that have a 63.5mm rod journal.

Engine Model:
C3.3T

Engine Desc:
TURBOCHARGED

Engine Data:
Tier 3
INDUSTRIAL

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.0 in / 127.00 mm
Displacement: 201 in³/
3.3 Lt

Please see page 587 for a complete list of equipment models.

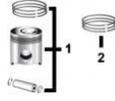


1) Engine O/H Kit

- BOK551 Std.
- BOK552 0.50
- BOK553 1.00

2) Basic Engine Kit

- BBK551 Std.
- BBK552 0.50
- BBK553 1.00
- SPEC SHEET - C3.3



1) Piston Kit

- B225-5437 Std.
- B288-1394 0.50
- B288-1395 1.00

3 Per Engine

2) Ring Set

- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00



Main Bearing Set

- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

Set of 4 Pairs



Con Rod Bearing Set

- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

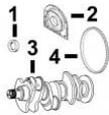
Set of 3 Pairs



Thrust Washer

- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) Front Seal

- B4W-5359

2) Rear Seal

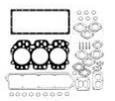
- B232-7449

3) Crankshaft Kit

- B273-9297

4) Ring Gear

- B7W-6247 115T
- B033-7687 126T



1) Top Gasket Set

- B291-8885

2) Bottom Gasket Set

- B275-0885/2

3) Timing Cover Gsk

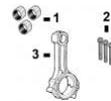
- B226-8766

4) Head Gasket

- B273-9375

5) Oil Pan Gasket

- B274-4695



1) Bush, Con Rod

- B225-5438 x3

2) Bolt, Con Rod

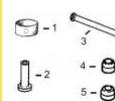
- B225-5439 x6

3) Con Rod

- B225-5453

4) Head Bolts

- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam

- B232-7440 x1

2) Tappet

- B138-2053

3) Pushrod

- B067-6095

4) Seal, Valve Intake

- B252-6438 x3

5) Seal, Valve Exhaust

- B254-3954 x3

Valve Train Kit

- BVTK561

1) Valve, Intake

- B225-5495 x3

2) Valve, Exhaust

- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)

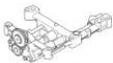
- B185-0882 x6

4) Spring, Valve

- B225-5496 x6

5) Lock, Valve

- B147-1979 x12



Oil Pump

- B225-8329



Lift Pump

- B350-4315
- B299-9267



1) Water Pump

- B225-8016

2) Thermostat

- B254-2267
- B254-2268
- B254-2269



Water Pump Gasket

- B225-8019



Glowplug

- B453-3510 x3

(1): Not to be used on Engines with Balancer Units.

(2): Use for rods that have a 63.5mm rod journal.

(3): Check application for proper usage.

Engine Model:
C3.3T

Engine Desc:
TURBOCHARGED

Engine Data:
Tier 3
INDUSTRIAL

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00
mm Stroke: 5.0 in /
127.00 mm
Displacement: 201 in3 /
3.3 Lt

ESN

E3S1-UP

E3G1-UP

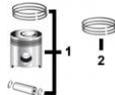


1) Engine O/H Kit

- BOK610 Std.
- BOK611 0.50
- BOK612 1.00

2) Basic Engine Kit

- BBK610 Std.
- BBK611 0.50
- BBK612 1.00
- SPEC SHEET - C3.3



1) Piston Kit

- B277-6275 Std.
- B277-6275B 0.50
- B277-6275D 1.00

3 Per Engine

2) Ring Set

- B225-5436 Std.
- B334-2319 0.50
- B334-2318 1.00



Main Bearing Set

- B261-6963 Std.
- B275-0880 0.010
- B275-0881 0.020
- B275-0882 0.030

Set of 4 Pairs



Con Rod Bearing Set

- B273-9299 Std.
- B273-9306 0.010
- B273-9307 0.020
- B273-9308 0.030

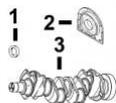
Set of 3 Pairs



Thrust Washer

- B032-9090/91 Std.
- B067-6873/74 0.007

Set of 2 Pairs



1) Front Seal

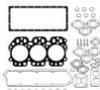
- B4W-5359

2) Rear Seal

- B232-7449

3) Crankshaft Kit

- B273-9297



1) Top Gasket Set

- B291-8885

2) Bottom Gasket Set

- B275-0885

3) Timing Cover Gsk

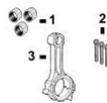
- B225-8287

4) Head Gasket

- B273-9375

5) Oil Pan Gasket

- B274-4695



1) Bush, Con Rod

- B225-5438 x3

2) Bolt, Con Rod

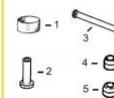
- B225-5439 x6

3) Con Rod

- B225-5453

4) Head Bolts

- B225-5501 x5
- B225-5502 x3



1) Bushing, Cam

- B232-7440 x1

2) Tappet

- B138-2053

3) Pushrod

- B067-6095

4) Seal, Valve Intake

- B252-6438 x3

5) Seal, Valve Exhaust

- B254-3954 x3

Valve Train Kit

- BVTK561

1) Valve, Intake

- B225-5495 x3

2) Valve, Exhaust

- B225-5499 x3

3) Guide, Valve (Intake & Exhaust)

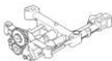
- B185-0882 x6

4) Spring, Valve

- B225-5496 x6

5) Lock, Valve

- B147-1979 x12



Oil Pump

- B225-8329



Lift Pump

- B350-4315
- B299-9267



1) Water Pump

- B225-8016

2) Thermostat

- B254-2267
- B254-2268
- B254-2269



Water Pump Gasket

- B225-8019



Glowplug

- B453-3510 x3

(1): Not to be used on Engines with Balancer Units.
(3): Check application for proper usage.

(2): Use for cranks that have a 63.5mm journal.

Engine Series:
C3.3B

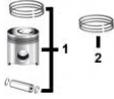
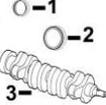
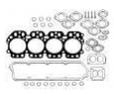
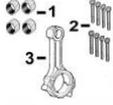
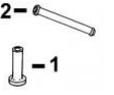
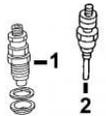
Engine Model:
C3.3B Tier 3, Interim
Tier 4

Engine Data:
Direct Injection W/EGR

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.70 in / 94 mm
Stroke: 4.724 in / 120.00 mm

Please see page 588 for a complete list of equipment models.

 <p>Basic Engine Kit ․ BBK574 Std. ․ BBK575 0.50 Spec Sheet -</p>	 <p>1) Piston & Ring Kit ․ B393-2907 Std. ․ B393-2908 0.50 4 Per Engine 2) Ring Set ․ B387-9836 Std. ․ B393-2889 0.50</p>	 <p>Main Bearing ․ B393-2914 Std. ․ B393-2915 .20mm ․ B393-2916 .40mm Use 5 Pairs</p>	 <p>Con Rod Bearing ․ B388-7501 Std. ․ B393-2895 .20mm ․ B393-2896 .40mm Use 4 Pairs</p>	 <p>Thrust Washer Set ․ B387-9845/46 Std. Set of 4 Pcs</p>
 <p>1) Front Seal ․ B387-9796 2) Rear Seal ․ B387-9854 3) Crankshaft ․ B387-9840</p>	 <p>1) Top Gasket Set ․ BC33BHS 2) Lower Gasket Set ․ BC33BCS 3) Head Gasket ․ B387-9790 2 notch ․ B387-9791 1 notch ․ B387-9792 No notch 4) Rocker Cover Gasket ․ B387-9829</p>	 <p>1) Bushing, Con Rod ․ B393-2894 x8 2) Bolt, Con Rod 3) Connecting Rod ․ B387-9839</p>	 <p>1) Tappet ․ x8 2) Push Rod</p>	
<p>Valve Train</p>	<p>1) Valve, Intake ․ B389-0695 x8 2) Valve, Exhaust ․ B389-0696 x8</p>	<p>3) Guide, Intake Valve ․ B389-0691 x8 4) Guide, Exhaust Valve ․ B389-0692 x8</p>	<p>5) Spring, Valve ․ B389-0697 x16 6) Seal, Valve ․ 6) B389-0700 x16</p>	
 <p>1) Oil Pump Kit (Rotor Set) ․ B388-7442 Oil Cooler ․ B387-9872</p>	 <p>1) Fuel Injector ․ B397-9952 2) Glow Plug ․ B387-9899</p>	 <p>1) Water Pump ․ B387-9903 Water Pump Gasket ․ B387-9904 2) Thermostat ․ B389-5308</p>	 <p>Turbocharger</p>	

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(3):

(2): Check application for proper use

Engine Series:
C3.3B

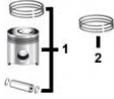
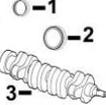
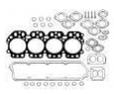
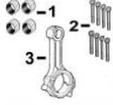
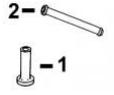
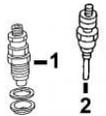
Engine Model:
C3.3B Tier 4

Engine Data:
Common Rail Injection

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.70 in / 94 mm
Stroke: 4.724 in / 120.00 mm

Please see page 589 for a complete list of equipment models.

 <p>Basic Engine Kit › BBK576 Std. › BBK577 0.50 Spec Sheet -</p>	 <p>1) Piston & Ring Kit › B436-1072 Std. › B436-1073 0.50 4 Per Engine 2) Ring Set › B387-9836 Std. › B393-2889 0.50</p>	 <p>Main Bearing › B393-2914 Std. › B393-2915 .20mm › B393-2916 .40mm Use 5 Pairs</p>	 <p>Con Rod Bearing › B388-7501 Std. › B393-2895 .20mm › B393-2896 .40mm Use 4 Pairs</p>	 <p>Thrust Washer Set › B387-9845/46 Std. Set of 4 Pcs</p>
 <p>1) Front Seal › B387-9796 2) Rear Seal › B387-9854 3) Crankshaft › B387-9840</p>	 <p>1) Top Gasket Set › B436-1916 2) Lower Gasket Set › B436-1917 3) Head Gasket › B436-0834 2 notch › B436-0835 1 notch › B436-0836 No notch 4) Rocker Cover Gasket › B387-9829</p>	 <p>1) Bushing, Con Rod › B393-2894 x8 2) Bolt, Con Rod 3) Connecting Rod › B387-9839</p>	 <p>1) Tappet › x8 2) Push Rod</p>	
<p>Valve Train</p>	<p>1) Valve, Intake › B389-0695 x8 2) Valve, Exhaust › B389-0696 x8</p>	<p>3) Guide, Intake Valve › B389-0691 x8 4) Guide, Exhaust Valve › B389-0692 x8</p>	<p>5) Spring, Valve › B389-0697 x16 6) Seal, Valve › 6) B389-0700 x16</p>	
 <p>1) Oil Pump Kit (Rotor Set) › B397-9057 › B388-7442 2) Oil Cooler › B387-9872</p>	 <p>1) Fuel Injector › B608-2959 2) Glow Plug › B387-9899</p>	 <p>1) Water Pump › B387-9903 Water Pump Gasket › B387-9904 2) Thermostat › B389-5308</p>	 <p>Turbocharger › B436-1920</p>	

(1): Does not include head gasket. Head gasket thickness or notches must be verified and correct head gasket must be purchased separately.

(3):

(2): Check application for proper use

Engine Series: C3.8	Engine Model: C3.8 Tier 3, Interim Tier 4	Engine Data: Common Rail Injection	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.937 in / 100 mm Stroke: 4.724 in / 120.00 mm
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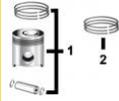
Engine Arrangement		Skid Steers		Compact Track Loaders		Wheel Loaders	
345-3555 416-6105	345-3615	272D	272D XHP	297D 299D	297D XHP 299D XHP	910K	914K



Basic Engine Kit

- BBK572 Std.
- BBK573 0.50

Spec Sheet -



1) Piston & Ring Kit

- B389-5172K Std.
- B389-5173K 0.50

4 Per Engine

2) Ring Set

- B389-5174 Std.
- B389-5175 0.50



Main Bearing

- B389-5190 Std.
- B389-5191 .20mm
- B389-5192 .40mm

Use 5 Pairs



Con Rod Bearing

- B389-5182 Std.
- B389-5183 .20mm
- B389-5184 .40mm

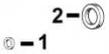
Use 4 Pairs



Thrust Washer Set

- B389-5193/96 Std.
- B389-5194/97 .20mm

Set of 4 Pcs

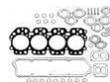


1) Front Seal

- B387-9796

2) Rear Seal

- B389-5213



1) Head Gasket Set

- BC38HS

2) Lower Gasket Set

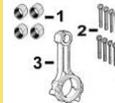
- BC38CS

3) Head Gasket

- B389-5132 2 notch
- B389-5133 1 notch
- B389-5134 No notch

4) Rocker Cover Gasket

- B389-5150



1) Bushing, Con Rod

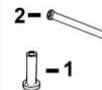
- B389-5179 x8

2) Bolt, Con Rod

- B389-5180 x8

4) Con Rod Kit

- B389-5178



1) Tappet

- B383-0306 x8

2) Push Rod

- B389-5199 x8

Valve Train

1) Valve, Intake

- B389-5135 x8

2) Valve, Exhaust

- B389-5136 x8

3) Guide, Valve

- B389-0692 x16

4) Spring, Valve

- B389-0697 x16

5) Lock, Valve

- B389-5137 x32

6) Seal, Valve

- B389-0700 x16



1) Oil Pump Kit (Rotor Set)

- B389-5161

2) Oil Cooler

- B389-5401



1) Water Pump

- B389-5309

Water Pump Gasket

- B389-5310

2) Thermostat

- B389-5308



Turbocharger

- B389-9185

(1): Check application for proper use
(3):

(2): Includes 2 notch head gasket

Engine Model:
C4.2

Engine Desc:
TURBO

Engine Info:
4 Cyl

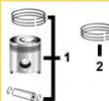
Engine Dimensions:

Bore: Ø 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in
Piston Pin: Ø 34mm / 1.338 in

Please see page 590 for a complete list of equipment models.



- 1) **Engine O/H Kit**
 › BBKC42 Std.
 › SPEC SHEET - C4.2



- 1) **Piston & Ring Kit**
 › B324-4238 Std.
4 Per engine
 2) **Ring Set**
 › B178-6543 Std



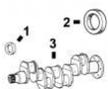
- Main Bearings**
 › B51-7588-4 x1 Std.
 › B51-7784-4 x1 0.25
 › B51-7785-4 x1 0.50
 › B51-7786-4 x1 0.75
Set of 5 Pairs



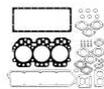
- Con Rod Bearings**
 › B294-1748 x8 Std.
 › B297-7648 x8 0.25
 › B297-7649 x8 0.50
 › B297-7650 x8 0.75
Rod bearings are priced and sold per shell



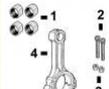
- 1) **Thrust Washer**
 › B51-7654 x1 Std.



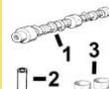
- 1) **Front Oil Seal**
 › B51-7656
Rear Oil Seal
 › B51-7660
Crankshaft
 › B296-4710



- 1) **Overhaul Gasket Kit**
 › BC42TOG **5**
 3) **Cylinder Head Gasket**
 › B296-4689
 4) **Upper Rocker Cover Gasket**
 › B296-4694
 5) **Lower Rocker Cover Gasket**
 › B305-4768
 6) **Oil Pan Gasket**
 › B51-7842



- 1) **Bushing, Conn. Rod**
 › B296-4663
 2) **Bolt, Conn. Rod**
 › B094-7154
 3) **Nut, Conn. Rod**
 › B094-7516
 4) **Connecting Rod**
 › B294-1747



- 1) **Camshaft**
 › B305-4758
 2) **Tappet**
 › B324-4060
 3) **Cam Bushing Kit**
 › B3064CBS **2**
 4) **Push Rod**
 › B294-1716



- Pressure Sensor - Fuel Manifold**
 › B238-0118
Pressure Sensor - Fuel Filter Base
 › B274-6721
Temperature Sensor
 › B238-0112
Speed Sensor
 › B238-0120

- Intake Valve**
 › B294-1684 x8
Valve Insert inlet
 › B305-4883 x8

- Exhaust Valve**
 › B294-1685 x8
Valve Insert exhaust
 › B305-4884 x8

- Valve Guide**
 › B305-4885 x16
Valve Keepers
 › B199-2188 x32

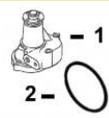
- Valve Spring**
 › B294-1688 x16
Valve Seals
 › B199-2189 x16
Spring Retainer
 › B199-2187 x16



- 1) **Oil Pump Ring Gear**
 › B125-2950 9 Teeth
 › B51-7558 9 Teeth
 2) **Oil Pump Gasket**
 › B178-6537
 3) **Oil Cooler**
 › B135-2403
 4) **Oil Cooler Gasket**
 › B51-7691 x2
 5) **Oil Cooler Gasket**
 › B51-7862



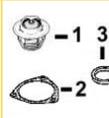
- 1) **Fuel Lift Pump**
 › B137-5541
 2) **Gasket, Fuel Lift Pump**
 › B294-1820
 3) **Injector**
 › B326-4756
 4) **Injector O-Ring**
 › B294-1803
 5) **Copper Washer**
 › B1R-6573
 6) **Injector inlet Dust Seal**
 › B294-1788



- 1) **Water Pump**
 › B178-6633
 2) **Gasket, W Pump**
 › B096-9528



- Repair Sleeve**
 › 1) B51-7523
 2) **Oil Cooling Nozzle**
 › B294-1722



- 1) **Thermostat**
 › B324-4128
 › B51-8010
 2) **Thermostat Gasket**
 › B294-1780 **3**
 3) **Thermostat Gasket**
 › B51-7735 **4**

(1): Includes Metal Sleeve

(3): 3 bolts paper gasket

(5): Front & Rear Oil Seals are sold separately.

(2): Contains 1x B51-8009, 1x B51-7528 & 1x B51-7529

(4): Rubber flat Seal

Engine Model:

C4.4B

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 4 Interim

Engine Info:

4 Cyl

Engine

Dimensions:

Bore: 4.133in /

105.00mm

Stroke: 5.00in /

127.00mm

Displacement:

268.50 in3 /6.6

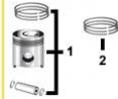
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Please see page 591 for a complete list of equipment models.



Basic Kit

- › BBK566 Std. 1
- › BBK567 0.50 1
- › BBK568 1.00 1
- › SPEC SHEET - C4.4B ACERT



1) Piston & Ring Kit

- › B361-2486 Std.
- › B361-2590 0.50
- › B451-8387 1.00

2) Ring Set

- › B360-2028 Std.
- › B449-2818 0.50
- › B449-2819 1.00

4 Per Engine



Main Bearing Set

- › B518-5431 Std.
- › B518-5432 0.010
- › B518-5433 0.020
- › B518-5436 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › B360-3986 Std.
- › B468-7762 0.010
- › B468-7769 0.020
- › B468-7770 0.030

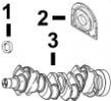
Set of 4 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

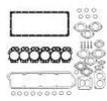
- › B371-8062

2) Rear Seal

- › B232-7449

3) Crankshaft

- › B376-4076
- › B376-4077



1) Top Gasket Set

- › BC44BTOP

2) Bottom Gasket Set

- › BC44BBOT 2

3) Head Gasket

- › B390-0341 7

4) Valve Cover Gasket

- › B333-8052 7

5) Exhaust Manifold Gasket

- › B349-1835 3

6) Timing Cover Gasket - Front Side

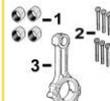
- › B335-5330 4
- › B348-9985 4

7) Timing Cover Gasket - Rear side

- › B319-9361 5
- › B330-4778 6

8) Oil Pan Gasket

- › B225-6005



1) Bush, Con Rod

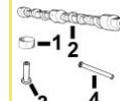
- › B276-7478 x4

2) Bolt, Con Rod

- › B323-9312 x8

3) Con Rod Kit

- › B333-5465 7



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B363-3890 7

3) Tappet

- › B385-4313 x8

4) Pushrod

- › B319-8426 x8

Valve Train

1) Valve, Intake

- › B336-5446 x8

2) Valve, Exhaust

- › B336-5447 x8

3) Guide, Valve (Intake & Exhaust)

- › B356-9640 x16

4) Seal, Valve Stem

- › B387-9503 x16

5) Valve, Insert In

- › B322-4120 x8

6) Valve, Insert Exhaust

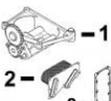
- › B343-5964 x8

7) Spring, Valve

- › B436-0524 x16

8) Lock, Valve

- › B152-9860 x32



1) Oil Pump

- › B447-8576

2) Oil Cooler

- › B361-1225

3) Oil Cooler Gasket

- › B361-0841



1) Water Pump

- › B397-5683 7

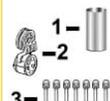
- › B397-5684 7

2) Water Pump Gasket

- › B353-8578

3) Thermostat

- › B394-5022
- › B497-3998



1) Repair Sleeve

- › 105RS 7

2) Belt Tensioner

- › B377-9082 7

3) Head Bolts

- › B276-8134 x10



1) Glowplug

- › B462-2235 24volts

- › B452-3112 12volts

2) Piston Cooling Nozzle

- › B329-3796

3) Injector

- › B370-7286 7
- › B370-7287 7

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(5): Use with timing Cover – Front side B335-5330

(7): Check application for proper usage.

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(4): Use with timing Cover – Rear side B330-4778

(6): Use with timing Cover – Front side B348-9985

Engine Model:

C4.4B

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 4 Interim

Engine Info:

4 Cyl

Engine Dimensions:

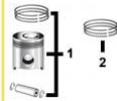
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 268.50 in3 / 6.6 Lt

Please see page 592 for a complete list of equipment models.



Basic Kit

- › BBK578 Std. 1
- › BBK579 0.50 1
- › BBK580 1.00 1
- › SPEC SHEET - C4.4B ACERT



1) Piston & Ring Kit

- › B360-3987 Std.
- › B361-5409 0.50
- › B361-5410 1.00

2) Ring Set

- › B360-2028 Std.
- › B449-2818 0.50
- › B449-2819 1.00

4 Per Engine



Main Bearing Set

- › B518-5431 Std.
- › B518-5432 0.010
- › B518-5433 0.020
- › B518-5436 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › B360-3986 Std.
- › B468-7762 0.010
- › B468-7769 0.020
- › B468-7770 0.030

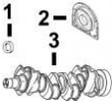
Set of 4 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

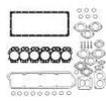
- › B371-8062

2) Rear Seal

- › B232-7449

3) Crankshaft

- › B376-4076
- › B376-4077



1) Top Gasket Set

- › BC44BTOP

2) Bottom Gasket Set

- › BC44BBOT

3) Head Gasket

- › B390-0341

4) Valve Cover Gasket

- › B333-8052

5) Exhaust Manifold Gasket

- › B349-1835

6) Timing Cover Gasket - Front Side

- › B335-5330

- › B348-9985

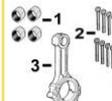
7) Timing Cover Gasket - Rear side

- › B319-9361

- › B330-4778

8) Oil Pan Gasket

- › B225-6005



1) Bush, Con Rod

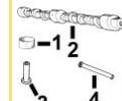
- › B276-7478 x4

2) Bolt, Con Rod

- › B323-9312 x8

3) Con Rod Kit

- › B333-5465



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B363-3890

3) Tappet

- › B385-4313 x8

4) Pushrod

- › B319-8426 x8

Valve Train

1) Valve, Intake

- › B336-5446 x8

2) Valve, Exhaust

- › B336-5447 x8

3) Guide, Valve (Intake & Exhaust)

- › B356-9640 x16

4) Seal, Valve Stem

- › B387-9503 x16

5) Valve, Insert In

- › B322-4120 x8

6) Valve, Insert Exhaust

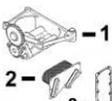
- › B343-5964 x8

7) Spring, Valve

- › B436-0524 x16

8) Lock, Valve

- › B152-9860 x32



1) Oil Pump

- › B447-8576

2) Oil Cooler

- › B361-1225

3) Oil Cooler Gasket

- › B361-0841



1) Water Pump

- › B397-5683

- › B397-5684

2) Water Pump Gasket

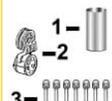
- › B353-8578

3) Thermostat

- › B394-5022

- › B497-3998

- › B586-2474



1) Repair Sleeve

- › 105RS

2) Belt Tensioner

- › B369-1255

- › B377-9082

3) Head Bolts

- › B276-8134 x10



1) Glowplug

- › B462-2235 24volts

- › B452-3112 12volts

2) Piston Cooling Nozzle

- › B329-3796

3) Injector

- › B370-7280

- › B370-7286

- › B370-7287

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(5): Use with timing Cover – Front side B335-5330

(7): Check application for proper usage.

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(4): Use with timing Cover – Rear side B330-4778

(6): Use with timing Cover – Front side B348-9985

Engine Model:

C4.4T/TA

Engine Desc:

TURBOCHARGE

Engine Data:

Tier 3

Engine Info:

4 Cyl

Engine

Dimensions:

Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in³/ 4.4Lt



1) Basic Kit

1) (Rod Brg OD 63.5 mm)

- › BBK600 3
- › BBK601 0.50 3
- › BBK602 1.00 3

2) Basic Kit (Rod Brg OD 68 mm)

- › BBK600S
- › BBK601S 0.50 3
- › BBK602S 1.00 3
- › SPEC SHEET - C4.4T-TA



1) Piston & Ring Kit

- › B315-3395 Std.
- › B396-4592 0.50
- › B315-3395D 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

4 Per Engine



Main Bearing Set

- › B353-7423 Std.
- › B353-7424 0.010
- › B353-7425 0.020
- › B353-7426 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › B225-7781 Std. 1
- › B233-3788 0.010 1
- › B233-3789 0.020 1
- › B233-3790 0.030 1
- › B360-3986 Std. 2
- › B468-7762 0.010 2
- › B468-7769 0.020 2
- › B468-7770 0.030 2

Set of 4 Pairs

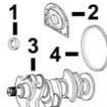


Thrust Washer Set

- › B032-9090/91 Std. 1
- › B067-6873/74 0.007 1

Set of 2 Pairs

Please see page 593 for a complete list of equipment models.



1) Front Seal

- › B4W-5359

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

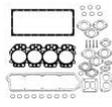
- › B232-7400 5
- › B359-0715 6

4) Ring Gear

- › B7W-6247 115T
- › B033-7687 126T

5) Crankshaft Gear

- › B216-8314



1) Top Gasket Set

- › B276-3420

2) Bottom Gasket Set

- › BC44TBOG 3

3) Head Gasket

- › B240-7194 5

4) Valve Cover Gasket

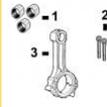
- › B225-6451 6

5) Timing Cover Gsk

- › B225-8287 4
- › B226-8766 4
- › B291-6524 4

6) Oil Pan Gasket

- › B225-6005 4
- › B237-5932 4



1) Bush, Con Rod

- › B225-5438 x4

2) Bolt, Con Rod

- › B225-5439 x8 1
- › B323-9312 x8 2

3) Connecting Rod

- › B225-5453 1
- › B359-0722 2



1) Bushing, Cam

- › B232-7440 x1

2) Camshaft

- › B350-2433 4
- › B380-2600 4

3) Tappet

- › B315-3384 x8

4) Pushrod

- › B278-5126 x8

5) Seal, Valve Exhaust

- › B254-3954 x4

6) Seal, Valve Intake

- › B252-6438 x4

7) Cam and Lifter Kit

- › B350-2433KIT 4
- › B380-2600KIT 4

Valve Train

1) Valve, Intake

- › B315-3390 x4

2) Valve, Exhaust

- › B315-3394 x4

3) Guide, Valve (Intake & Exhaust)

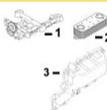
- › B185-0882 x8

4) Spring, Valve

- › B436-0522 x8

5) Lock, Valve

- › B315-3393 x16



1) Oil Pump

- › B225-8329

2) Oil Cooler

- › B225-6817

3) Oil Cooler Assembly

- › B354-1274 7



1) Lift Pump

- › B350-4315 4
- › B232-7808 4

3) Fuel Pump

- › B349-1063 (3 Pin) 4



1) Water Pump

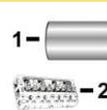
- › B225-8016 4

2) Thermostat

- › B254-2267

3) Water Pump Gasket

- › B225-8019



1) Repair Sleeve

- › 105RS

2) Cylinder Head

- › B315-3389UF

3) Head Bolts

- › B225-5501 x7
- › B225-5502 x3



1) Glowplug

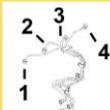
- › B453-3510 x4

2) Injector

- › B315-3381 4

3) Piston Cooling Nozzle

- › B276-5605



Fuel Lines

- › 1) B230-8995
- › 2) B230-8996
- › 3) B230-8997
- › 4) B230-8998

(1): Use for rods that have a 63.5mm rod journal

(3): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.

(5): 63.5mm rod journal, splined nose

(7): Includes 9 plate oil cooler core.

(2): Use for rods that have a 68mm rod journal

(4): Check application for proper use.

(6): 68mm rod journal, non-splined nose

(8): Use for cranks with 63.5mm journal.

Engine Model:

C4.4T/TA

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 3

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in3/ 4.4Lt



1) **Basic Kit**

1) **(Rod Brg OD 63.5 mm)**

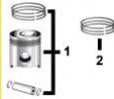
- › BBK603 Std. 3
- › BBK604 0.50 3
- › BBK605 1.00 3

2) **Basic Kit**

(Rod Brg OD 68 mm)

- › BBK603S Std. 3
- › BBK604S 0.50 3
- › BBK605S 1.00 3

› SPEC SHEET - C4.4T-TA



1) **Piston & Ring Kit**

- › B310-9269 Std.
- › B396-4482 0.50
- › B310-9269D 1.00

2) **Ring Set**

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

4 Per Engine



Main Bearing Set

- › B353-7423 Std.
- › B353-7424 0.010
- › B353-7425 0.020
- › B353-7426 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › B225-7781 Std. 1
- › B233-3788 0.010 1
- › B233-3789 0.020 1
- › B233-3790 0.030 1
- › B360-3986 Std. 2
- › B468-7762 0.010 2
- › B468-7769 0.020 2
- › B468-7770 0.030 2

Set of 4 Pairs

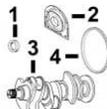


Thrust Washer Set

- › B032-9090/91 Std. 1
- › B067-6873/74 0.007 1

Set of 2 Pairs

Please see page 594 for a complete list of equipment models.



1) **Front Seal**

- › B4W-5359

2) **Rear Seal**

- › B232-7449

3) **Crankshaft Kit**

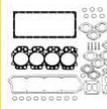
- › B232-7400 5
- › B359-0715 6

4) **Ring Gear**

- › B7W-6247 115T
- › B033-7687 126T

5) **Crankshaft Gear**

- › B216-8314



1) **Top Gasket Set**

- › BC44TTOG

2) **Bottom Gasket Set**

- › BC44TBOG 3

3) **Head Gasket**

- › B310-8520 5

4) **Valve Cover Gasket**

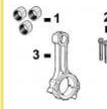
- › B298-4546 6

5) **Timing Cover Gsk**

- › B225-8287
- › B226-8766

6) **Oil Pan Gasket**

- › B225-6005
- › B237-5932



1) **Bush, Con Rod**

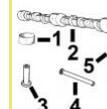
- › B225-5438 x4

2) **Bolt, Con Rod**

- › B225-5439 x8 1
- › B323-9312 x8 2

3) **Connecting Rod**

- › B225-5453 1
- › B359-0722 2



1) **Bushing, Cam**

- › B232-7440 x1

2) **Camshaft**

- › B364-0470

3) **Tappet**

- › B315-3384 x8

4) **Pushrod**

- › B278-5126 x8

5) **Seal, Valve Stem**

- › B299-5511 x16

6) **Cam and Lifter Kit**

- › B364-0470KIT

Valve Train

1) **Valve, Intake**

2) **Valve, Exhaust**

- › 1) B309-6678 x8
- › 2) B339-9637 x8

3) **Guide, Valve**

(Intake & Exhaust)

- › 3) B380-2073 x16

4) **Valve, Insert In**

5) **Valve, Insert Ex**

- › 4) B377-0399 x8
- › 5) B377-0400 x8

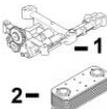
6) **Spring, Valve**

7) **Lock, Valve**

- › 6) B436-0524 x16
- › 7) B276-8123 x32

8) **Valve Seals**

- › 8) B229-5511 x16



1) **Oil Pump**

- › B225-8329

2) **Oil Cooler**

- › B298-4558



1) **Lift Pump**

- › B350-4315

2) **Lift Pump**

- › B232-7808 4

3) **Fuel Pump**

- › B349-1063 7 Pin) 4



1) **Water Pump**

- › B354-4754 4

2) **Water Pump Gasket**

- › B225-8019 4

3) **Thermostat**

- › B417-7782 4
- › B367-1817 4
- › B357-8714 4

4) **Thermostat Housing Gasket**

- › B281-8744



1) **Repair Sleeve**

- › 105RS

2) **Head Bolts**

- › B225-5501 x10

3) **Turbocharger**

- › B316-0477 4
- › B316-0468 4



1) **Glowplug**

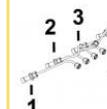
- › B226-8770 4
- › B452-3112 4

2) **Piston Cooling Nozzle**

- › B276-5605

3) **Injector**

- › B320-0677 4



Fuel Lines

- › 1) B322-3745
- › 2) B322-3746
- › 3) B333-4732
- › 4) B333-4733

(1): Use for rods with 63.5mm rod journal

(3): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.

(5): 63.5mm rod journal, splined nose

(2): Use for rods with 68mm rod journal

(4): Check application for proper use.

(6): 68mm rod journal, non-splined nose

Engine Model:

C4.4T/TA

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 3

Engine Info:

4 Cyl

Engine Dimensions:

Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 269in3/ 4.4Lt



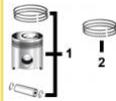
Basic Kit (Rod Brg OD 63.5 mm)

- › BBK606 Std. 3
- › BBK607 0.50 3
- › BBK608 1.00 3

2) Basic Kit (Rod Brg OD 68 mm)

- › BBK606S Std. 3
- › BBK607S 0.50 3
- › BBK608S 1.00 3

› SPEC SHEET - C4.4T-TA



1) Piston & Ring Kit

- › B310-9905 Std.
- › B396-4516 0.50
- › B310-9905D 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

4 Per Engine



Main Bearing Set

- › B353-7423 Std.
- › B353-7424 0.010
- › B353-7425 0.020
- › B353-7426 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › B225-7781 Std. 1
- › B233-3788 0.010 1
- › B233-3789 0.020 1
- › B233-3790 0.030 1
- › B360-3986 Std. 2
- › B468-7762 0.010 2
- › B468-7769 0.020 2
- › B468-7770 0.030 2

Set of 4 Pairs

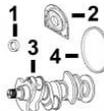


Thrust Washer Set

- › B032-9090/91 Std. 1
- › B067-6873/74 0.007 1

Set of 2 Pairs

Please see page 595 for a complete list of equipment models.



1) Front Seal

- › B4W-5359

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

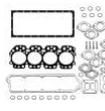
- › B232-7400 5
- › B359-0715 6

4) Ring Gear

- › B7W-6247 115T
- › B033-7687 126T

5) Crankshaft Gear

- › B216-8314



1) Top Gasket Set

- › BC44TTOG

2) Bottom Gasket Set

- › BC44TBOG 3

3) Head Gasket

- › B310-8520 5

4) Valve Cover Gasket

- › B298-4546 6

5) Timing Cover Gsk

- › B225-8287
- › B226-8766

6) Oil Pan Gasket

- › B225-6005
- › B237-5932



1) Bush, Con Rod

- › B225-5438 x4

2) Bolt, Con Rod

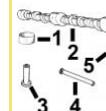
- › B225-5439 x8 1
- › B323-9312 x8 2

3) Connecting Rod

- › B225-5453 1
- › B359-0722 2

4) Tensioner, Belt

- › B377-9082



1) Bushing, Cam

- › B232-7440 x1 1

2) Camshaft

- › B364-0470 4

3) Tappet

- › B315-3384 x8

4) Pushrod

- › B278-5126 x8

5) Seal, Valve Stem

- › B299-5511 x16

6) Cam and Lifter Kit

- › B364-0470KIT

Valve Train

1) Valve, Intake

- › B309-6678 x8

2) Valve, Exhaust

- › B339-9637 x8

3) Guide, Valve (Intake & Exhaust)

- › 3) B380-2073 x16

4) Valve, Insert In

- › B377-0399 x8

5) Valve, Insert Ex

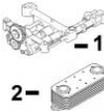
- › B377-0400 x8

6) Spring, Valve

- › B436-0524 x16

7) Lock, Valve

- › B276-8123 x32



1) Oil Pump

- › B225-8329 4

2) Oil Cooler

- › B298-4558

3) Balancer Unit

- › B234-0615 4



1) Lift Pump

- › B350-4315 4

2) Lift Pump

- › B232-7808 4

3) Fuel Pump

- › B349-1063 7 (Pin) 4



1) Water Pump

- › B354-4754 4

2) Water Pump Gasket

- › B225-8019

3) Thermostat

- › B417-7782 4
- › B367-1817 4
- › B357-8714 4

4) Thermostat Housing Gasket

- › B281-8744



1) Repair Sleeve

- › 105RS

2) Head Bolts

- › B225-5501 x10

3) Turbocharger

- › B316-0477 4
- › B316-0514 4



1) Glowplug

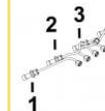
- › B226-8770 4
- › B452-3112 4

2) Piston Cooling Nozzle

- › B276-5605

3) Injector

- › B320-0677 4



Fuel Lines

- › 1) B322-3745
- › 2) B322-3746
- › 3) B333-4732
- › 4) B333-4733

(1): Use for rods that have a 63.5mm rod journal

(3): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.

(5): 63.5mm rod journal, splined nose

(2): Use for rods that have a 68mm rod journal

(4): Check application for proper use.

(6): 68mm rod journal, non-splined nose

CATERPILLAR C6.4 TURBO

Engine Model:

C6.4

Engine Desc:

TURBOCHARGED

Engine Info:

6 Cyl

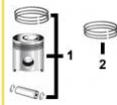
Engine Dimensions:

Bore: Ø 102.00 mm / 4.016 in
Stroke: 130.00 mm / 5.118 in
Piston Pin: Ø 34mm / 1.338 in

Please see page 596 for a complete list of equipment models.



- 1) **Basic Engine Kit**
 › BBKC64 Std.
 › SPEC SHEET - C6.4



- 1) **Piston & Ring Kit**
 › B324-4235 Std.
6 Per Engine
 2) **Ring Set**
 › B178-6543 Std



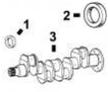
- Main Bearing Set**
 › B51-7588 Std.
 › B51-7784 0.25
 › B51-7785 0.50
 › B51-7786 0.75
Set of 7 Pairs



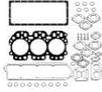
- Con Rod Bearings**
 › B294-1748 x12 Std.
 › B297-7648 x12 0.25
 › B297-7649 x12 0.50
 › B297-7650 x12 0.75
Rod bearings are priced and sold per shell



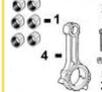
- 1) **Thrust Washer**
 › B51-7654 Std.
Set of 3 pcs



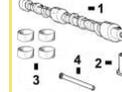
- 1) **Front Seal**
 › B324-4223
 2) **Rear Seal**
 › B51-7660
 3) **Crankshaft**
 › B294-1749



- 1) **Top Gasket Set**
 › B310-9553
 2) **Bottom Gasket Set**
 › B310-9554
 3) **Head Gasket**
 › B294-1682
 4) **Upper Rocker Cover Gasket**
 › B294-1706
 5) **Lower Rocker Cover Gasket**
 › B294-1705
 6) **Oil Pan Gasket**
 › B51-7666



- 1) **Bushing, Con Rod**
 › B296-4663 x6
 2) **Bolt, Con Rod**
 › B094-7154 x12
 3) **Nut, Con Rod**
 › B094-7516 x12
 4) **Con Rod**
 › B294-1747 x6



- 1) **Camshaft**
 › B305-4756
 2) **Tappet**
 › B324-4060 x12
 3) **Cam Bushing Kit**
 › B3066CBS x1
 4) **Push Rod**
 › B294-1716 x12

- Intake Valve**
 › B294-1684 x12
Valve Insert inlet
 › B305-4883 x12

- Exhaust Valve**
 › B294-1685 x12
Valve Insert exhaust
 › B305-4884 x12

- Valve Guide**
 › B305-4885 x24
Valve Keepers
 › B199-2188 x48

- Valve Spring**
 › B294-1688 x24
Valve Seals
 › B199-2189 x24
Spring Retainer
 › B199-2187 x24



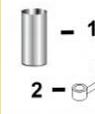
- 1) **Oil Pump Ring Gear**
 › B125-2950 9 Teeth
 › B51-7558 9 Teeth
 2) **Oil Pump Cover Gasket**
 › B178-6537
 3) **Oil Cooler**
 › B125-2970
 4) **Oil Cooler Ports Gasket**
 › B51-7691 x2
 5) **Oil Cooler Cover Gasket**
 › B51-7690



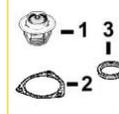
- 1) **Fuel Lift Pump**
 › B137-5541
 2) **Gasket, Fuel Lift Pump**
 › B294-1820
 3) **Injector**
 › B326-4700
 › B326-4756
 4) **Injector O-Ring**
 › B294-1803
 5) **Injector Copper Washer**
 › B1R-6573
 6) **Injector Inlet Dust Seal**
 › B294-1788



- 1) **Water Pump**
 › B178-6633
 2) **Gasket, Water Pump**
 › B096-9528



- 1) **Repair Sleeve**
 › B51-7523
 2) **Oil Cooling Nozzle**
 › B294-1722



- 1) **Thermostat**
 › B324-4128
 2) **Outer Gasket, Thermostat**
 › B51-7735 Paper
 3) **Inner Gasket, Thermostat**
 › B294-1780 Rubber

(1): Includes Metal Sleeve
 (3): Check application for proper usage

(2): Contains [1]B51-8009, [2]B51-7528, & [1]B51-7529
 (4): Front and Rear Oil Seals are sold separately.

Engine Model:

C6.6

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 3

Engine Info:

6 Cyl

Engine

Dimensions:

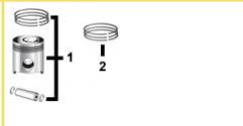
Bore: 4.133in / 105.00mm
Stroke: 5.00in / 127.00mm
Displacement: 402.76 in3 / 6.6 Lt

Please see page 597 for a complete list of equipment models.



Basic Kit

- › BBK707 Std 1
- › BBK708 0.50 1
- › BBK709 1.00 1
- › SPEC SHEET - C6.6



1) Piston & Ring Kit

- › B276-7475 Std.
- › B380-2062 0.50
- › B493-3305 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

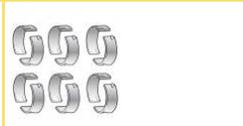
6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B277-3013

2) Rear Seal

- › B292-0886

3) Crankshaft Kit

- › B374-9163 3

4) Ring Gear

- › B033-7687 126T



1) Top Gasket Set

- › BC66TTOG

2) Bottom Gasket Set

- › BC66TBOG 1

3) Head Gasket

- › B176-3141 3

4) Valve Cover Gasket

- › B317-3064

5) Timing Cover Gsk

- › B225-8287 2

- › B226-8766 2

6) Oil Pan Gasket

- › B275-9884 2

- › B331-4400 2

7) Gasket Exh Manifold

- › B279-9361

8) Gasket intake Manifold

- › B278-5128

9) Rocker Cover Gasket

- › B277-5063 2

- › B309-6664 2



1) Bush, Con Rod

- › B276-7478 x6

2) Bolt, Con Rod

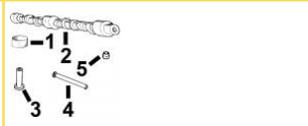
- › B323-9312 x12

3) Connecting Rod

- › B331-0290

4) Tensioner, Belt

- › B377-9082



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B347-1132 3

3) Tappet

- › B278-5125 x12

4) Pushrod

- › B278-5126 x12

5) Seal, Valve Stem

- › B299-5511 x24

6) Cam and Lifter Kit

- › B347-1132KIT 3

Valve Train

1) Valve, Intake

- › B309-6678 x12

2) Valve, Exhaust

- › B339-9637 x12

3) Guide, Valve (Intake & Exhaust)

- › B380-2073 x24

4) Valve, Insert In

- › B377-0399 x12

5) Valve, Insert Ex

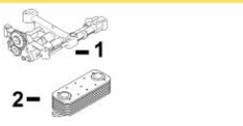
- › B377-0400 x12

6) Spring, Valve

- › B436-0521 x24

7) Lock, Valve

- › B276-8123 x48

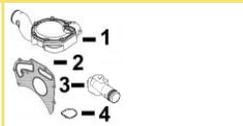


1) Oil Pump

- › B420-0454

2) Oil Cooler

- › B281-7039 2
- › B326-7401 2



1) Water Pump

- › 1) B354-4754 2

2) Water Pump Gasket

- › B225-8019 2

3) Thermostat

- › B417-7782 2

- › B367-1817 2

- › B357-8714 2

4) Thermostat Housing Gasket

- › B281-8744



Repair Sleeve

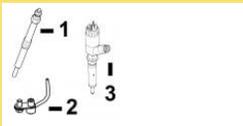
- › 105RS

2) Head Bolts

- › B276-8134 x14

3) Cylinder Head

- › B309-6663UF 3



1) Glowplug

- › B226-8770 2

- › B452-3112 2

- › B453-3510 2

2) Piston Cooling Nozzle

- › B276-5605

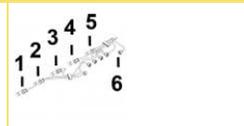
3) Injector

- › B320-0655 3

- › B320-0677 3

- › B320-0690 3

- › B321-3600 3



Fuel Lines

- › 1) B336-8174

- › 2) B336-8175

- › 3) B336-8176

- › 4) B336-8177

- › 5) B336-8178

- › 6) B336-8179

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.

Engine Model:

C6.6

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 3

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.133in /

105.00mm

Stroke: 5.00in /

127.00mm

Displacement:

402.76 in3 /6.6

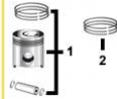
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Please see page 598 for a complete list of equipment models.



Basic Kit

- › BBK710 Std. 1
- › BBK711 0.50 1
- › BBK712 1.00 1
- › SPEC SHEET - C6.6



1) Piston & Ring Kit

- › B282-2224 Std.
- › B380-2063 0.50
- › B282-2224D 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B277-3013

2) Rear Seal

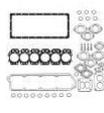
- › B292-0886

3) Crankshaft Kit

- › B374-9163 3

4) Ring Gear

- › B033-7687 126T



1) Top Gasket Set

- › BC66TTOG

2) Bottom Gasket Set

- › BC66TBOG 1

3) Head Gasket

- › B176-3141 3

4) Valve Cover Gasket

- › B317-3064

5) Timing Cover Gsk

- › B225-8287 2
- › B226-8766 2
- › B291-6524 2

6) Oil Pan Gasket

- › B275-9884 2
- › B331-4400 2

7) Gasket Exh Manifold

- › B279-9361

8) Gasket Intake Manifold

- › B278-5128

9) Rocker Cover Gasket

- › B277-5063 2
- › B309-6664 2



1) Bush, Con Rod

- › B276-7478 x6

2) Bolt, Con Rod

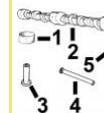
- › B323-9312 x12

3) Connecting Rod

- › B331-0290

4) Tensioner, Belt

- › B377-9082



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B347-1132 3

3) Tappet

- › B278-5125 x12

4) Pushrod

- › B278-5126 x12

5) Seal, Valve Stem

- › B299-5511 x24

6) Cam and Lifter Kit

- › B347-1132KIT 3

Valve Train

1) Valve, Intake

- › B309-6678 x12

2) Valve, Exhaust

- › B339-9637 x12

3) Guide, Valve

(Intake & Exhaust)

- › 3) B380-2073 x24

4) Valve, Insert In

- › B377-0399 x12

5) Valve, Insert Ex

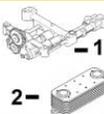
- › B377-0400 x12

6) Spring, Valve

- › B436-0521 x24

7) Lock, Valve

- › B276-8123 x48



1) Oil Pump

- › B420-0454

2) Oil Cooler

- › B281-7039 2
- › B326-7401 2



1) Water Pump

- › B354-4754

2) Water Pump Gasket

- › B225-8019 2

3) Thermostat

- › B417-7782 4
- › B367-1817 4
- › B357-8714 4

4) Thermostat Housing Gasket

- › B281-8744



Water Pump Gasket

- › B225-8019



Repair Sleeve

- › 105RS

2) Head Bolts

- › B276-8134 x14

3) Cylinder Head

- › B309-6663UF 3



1) Glowplug

- › B226-8770 2
- › B452-3112 2
- › B453-3510 2

2) Piston Cooling Nozzle

- › B276-5605

3) Injector

- › B320-0655 3
- › B320-0677 3
- › B320-0690 3
- › B321-3600 3



Fuel Lines

- › 1) B336-8174
- › 2) B336-8175
- › 3) B336-8176
- › 4) B336-8177
- › 5) B336-8178
- › 6) B336-8179

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
 (3): Check application for proper usage.

(2): Verify Application.

Engine Model:

C6.6

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 4 Interim

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.133in /

105.00mm

Stroke: 5.00in /

127.00mm

Displacement:

402.76 in3 /6.6

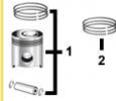
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Please see page 599 for a complete list of equipment models.



Basic Kit

- › BBK714 Std. 1
- › BBK715 0.50 1
- › BBK716 1.00 1
- › SPEC SHEET - C6.6 ACERT



1) Piston & Ring Kit

- › B361-2486 Std.
- › B361-2590 0.50
- › B451-8387 1.00

2) Ring Set

- › B360-2028 Std.
- › B449-2818 0.50
- › B449-2819 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
 - › B448-4227 0.007
- Set of 2 Pcs**



1) Front Seal

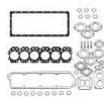
- › B371-8062

2) Rear Seal

- › B292-0886

3) Crankshaft

- › B376-4075



1) Top Gasket Set

- › BC66ACERTTOG

2) Bottom Gasket Set

- › BC66ACERTBOG 2

3) Head Gasket

- › B422-4438

4) Valve Cover Gasket

- › B256-7704

5) Exhaust Manifold Gasket

- › B371-7601 x2

6) Timing Cover Gasket - Front Side

- › B335-5330 3

- › B348-9985 4

7) Timing Cover Gasket - Rear side

- › B319-9361 5

- › B330-4778 6

8) Oil Pan Gasket

- › B331-4400 Upper
- › B275-9884 Lower



1) Bush, Con Rod

- › B276-7478 x6

2) Bolt, Con Rod

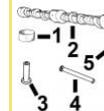
- › B323-9312 x12

3) Connecting Rod

- › B331-0290 7

4) Tensioner, Belt

- › B377-9082



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B336-7516 7

3) Tappet

- › B385-4313 x12

4) Pushrod

- › B319-8426 x12

Valve Train

1) Valve, Intake

- › B336-5446 x12

2) Valve, Exhaust

- › B336-5447 x12

3) Guide, Valve (Intake & Exhaust)

- › B356-9640 x24

4) Seal, Valve Stem

- › B387-9503 x24

5) Valve, Insert Intake

- › B322-4120 x12

6) Valve, Insert Exhaust

- › B343-5964 x12

7) Spring, Valve Intake

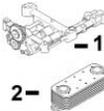
- › B436-0524 x12

Spring, Valve Exhaust

- › B436-0523 x12

8) Lock, Valve

- › B152-9860 x48



1) Oil Pump

- › B374-7136

2) Oil Cooler

- › B349-4230



1) Water Pump

- › B397-5684

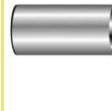
2) Thermostat

- › B497-3990



Water Pump Gasket

- › B353-8578



Repair Sleeve

- › 105RS

2) Head Bolts

- › B276-8134 x14



1) Glowplug

- › B462-2235 24volts

2) Piston Cooling Nozzle

- › B329-3796

3) Injector

- › B370-7282

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(5): Use with timing Cover – Front side B335-5330

(7): Check application for proper usage.

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(4): Use with timing Cover – Rear side B330-4778

(6): Use with timing Cover – Front side B348-9985

Engine Model:

C7.1

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 3

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 / 7.01 Lt

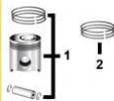
Please see page 600 for a complete list of equipment models.



Basic Kit

- › BBK723 Std.
- › BBK724 0.50
- › BBK725 1.00

1
1
1



1) Piston & Ring Kit

- › B415-4315 Std.
- › B380-4848 0.50
- › B380-5077 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

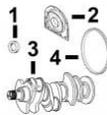
Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B277-3013

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

- › B376-4074

4) Ring Gear

- › B277-0588 134T



1) Top Gasket Set

- › BC71ATOP

2) Bottom Gasket Set

- › BC71ABOT

3) Head Gasket

- › B359-6616

4) Valve Cover Gasket

- › B256-7704

5) Timing Cover Gasket - Front side

- › B225-8287

- › B226-8766

6) Timing Cover Gasket - Rear side

- › B277-3012

7) Oil Pan Gasket

- › B351-4749

8) Gasket Exhaust Manifold

- › B416-7727

9) Gasket Intake Manifold

- › B238-8288



1) Bush, Con Rod

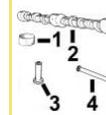
- › B276-7478 x6

2) Bolt, Con Rod

- › B323-9312 x12

3) Con Rod Kit

- › B331-0290



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B350-0637

3) Tappet

- › B138-2053 x12

4) Pushrod

- › B067-6095 x12

Valve Train

1) Valve, Intake

- › B497-1111 x6

2) Valve, Exhaust

- › B315-3394 x6

3) Guide, Valve

- › B335-6264 x12

4) Spring, Valve

- › B436-0520 x12

5) Valve, Insert Intake

- › B335-6266 x6

6) Valve, Insert Exhaust

- › B381-6236 x6

7) Seal, Valve Stem Intake

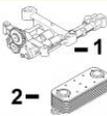
- › B252-6438 x6

8) Seal, Valve Stem Exhaust

- › B254-3954 x6

9) Lock, Valve

- › B315-3393 x24



1) Oil Pump

- › B420-0454

2) Oil Cooler

- › B281-7039

2



1) Water Pump

- › B354-4754

2) Water Pump Gasket

- › B225-8019

2

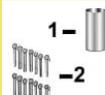


1) Thermostat

- › B417-7782

2) Thermostat Housing Gasket

- › B281-8744

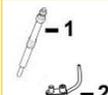


Repair Sleeve

- › 105RS

2) Head Bolts

- › B335-7055 x14



1) Glowplug

- › B298-3484

2) Piston Cooling Nozzle

- › B329-3796

3) Turbocharger

- › 2) B431-4572

2

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(3): Check application for proper usage.

(2): Verify Application.

(4): Included in the Bottom Set

Engine Model:

C7.1

Engine Desc:

TURBOCHARGE

Engine Data:

Tier 3

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 / 7.01 Lt

Please see page 601 for a complete list of equipment models.



Basic Kit

- › BBK726 Std.
- › BBK727 0.50
- › BBK728 1.00

1
1
1



1) Piston & Ring Kit

- › B575-3355 Std.
- › B574-9871 0.50
- › B574-9881 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B277-3013

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

- › B376-4074

4) Ring Gear

- › B6I-2997 156T



1) Top Gasket Set

- › BC71BTOP

2) Bottom Gasket Set

- › BC71BBOT

3) Head Gasket

- › B388-4707

4) Valve Cover Gasket

- › B527-1641 Upper
- › B566-7931 Lower

5) Timing Cover Gasket - Front side

- › B225-8287
- › B226-8766

6) Timing Cover Gasket - Rear side

- › B277-3012

7) Oil Pan Gasket

- › B351-4749

8) Exhaust Manifold Gasket

- › B416-7727

9) Intake Manifold Gasket

- › B238-8288



1) Bush, Con Rod

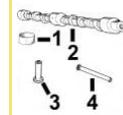
- › B276-7478 x6

2) Bolt, Con Rod

- › B323-9312 x12

3) Con Rod Kit

- › B331-0290



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B395-1802

3) Tappet

- › B278-5125 x12

4) Pushrod

- › B278-5126 x12

Valve Train

1) Valve, Intake

- › B309-6678 x12

2) Valve, Exhaust

- › B339-9637 x12

3) Guide, Valve

- › B380-2073 x24

4) Spring, Valve

- › B436-0521 x24

5) Valve, Insert Intake

- › B377-0399 x12

6) Valve, Insert Exhaust

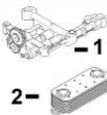
- › B377-0400 x12

7) Seal, Valve Intake

- › B299-5511 x24

9) Lock, Valve

- › B276-8123 x48



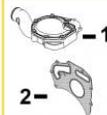
1) Oil Pump

- › B420-0454

2) Oil Cooler

- › B287-7424

2



1) Water Pump

- › B354-4754

2) Water Pump Gasket

- › B225-8019

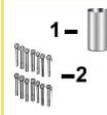


1) Thermostat

- › B417-7782

2) Thermostat Housing Gasket

- › B281-8744

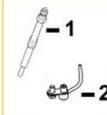


Repair Sleeve

- › 105RS

2) Head Bolts

- › B335-7055 x14



1) Glowplug

- › B298-3484

2) Piston Cooling Nozzle

- › B329-3796

2

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.

(4): Included in the Bottom Set

Engine Model:

C7.1

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 3

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 / 7.01 Lt

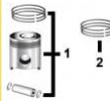
Please see page 602 for a complete list of equipment models.



Basic Kit

- › BBK738 Std.
- › BBK739 0.50
- › BBK740 1.00

1
1
1



1) Piston & Ring Kit

- › B389-5891 Std.
- › B380-4849 0.50
- › B380-5078 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

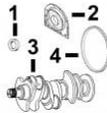
Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B277-3013

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

- › B376-4074

4) Ring Gear

- › B277-0588 134T



1) Top Gasket Set

- › BC71ATOP

2) Bottom Gasket Set

- › BC71ABOT

3) Head Gasket

- › B359-6616

4) Valve Cover Gasket

- › B256-7704

5) Timing Cover Gasket - Front side

- › B225-8287

- › B226-8766

6) Timing Cover Gasket - Rear side

- › B277-3012

7) Oil Pan Gasket

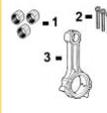
- › B351-4749

8) Gasket Exhaust Manifold

- › B416-7727

9) Gasket Intake Manifold

- › B238-8288



1) Bush, Con Rod

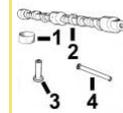
- › B276-7478 x6

2) Bolt, Con Rod

- › B323-9312 x12

3) Con Rod Kit

- › B331-0290



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B350-0637

3) Tappet

- › B138-2053 x12

4) Pushrod

- › B067-6095 x12

Valve Train

1) Valve, Intake

- › B497-1111 x6

2) Valve, Exhaust

- › B315-3394 x6

3) Guide, Valve

- › B335-6264 x12

4) Spring, Valve

- › B436-0520 x12

5) Valve, Insert Intake

- › B335-6266 x6

6) Valve, Insert Exhaust

- › B381-6236 x6

7) Seal, Valve Stem Intake

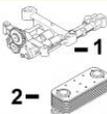
- › B252-6438 x6

8) Seal, Valve Stem Exhaust

- › B254-3954 x6

9) Lock, Valve

- › B315-3393 x24



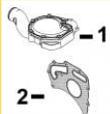
1) Oil Pump

- › B420-0454

2) Oil Cooler

- › B281-7039

2



1) Water Pump

- › B354-4754

2) Water Pump Gasket

- › B225-8019

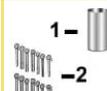


1) Thermostat

- › B417-7782

2) Thermostat Housing Gasket

- › B281-8744

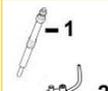


Repair Sleeve

- › 105RS

2) Head Bolts

- › B335-7055 x14



1) Glowplug

- › B298-3484

2) Piston Cooling Nozzle

- › B329-3796

3) Turbocharger

- › 2) B431-4572

2

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(3): Check application for proper usage.

(2): Verify Application.
(4): Included in the Bottom Set

Engine Model:

C7.1

Engine Desc:

TURBOCHARGE

Engine Data:

Tier 3

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.13in / 105.00mm
Stroke: 5.31in / 135.00mm
Displacement: 427.7 in3 / 7.01 Lt

Excavator

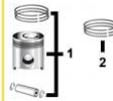
320
320D
320D2 FM
323
326
330
333



Basic Kit

- › BBK754 Std.
- › BBK755 0.50
- › BBK756 1.00

1
1
1



1) Piston & Ring Kit

- › B444-2190 Std.
- › B391-3732 0.50
- › B391-3735 1.00

2) Ring Set

- › B276-7476 Std.
- › B380-2065 0.50
- › B466-4849 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B277-3013

2) Rear Seal

- › B232-7449

3) Crankshaft Kit

- › B376-4074

4) Ring Gear

- › B61-2997 156T



1) Top Gasket Set

- › BC71BTOP

2) Bottom Gasket Set

- › BC71BBOT

3) Head Gasket

- › B388-4707

4) Valve Cover Gasket

- › B527-1641 Upper
- › B566-7931 Lower

5) Timing Cover Gasket - Front side

- › B225-8287
- › B226-8766

6) Timing Cover Gasket - Rear side

- › B277-3012

7) Oil Pan Gasket

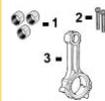
- › B351-4749

8) Exhaust Manifold Gasket

- › B416-7727

9) Intake Manifold Gasket

- › B238-8288



1) Bush, Con Rod

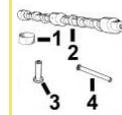
- › B276-7478 x6

2) Bolt, Con Rod

- › B323-9312 x12

3) Con Rod Kit

- › B331-0290



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B395-1802

3) Tappet

- › B278-5125 x12

4) Pushrod

- › B278-5126 x12

Valve Train

1) Valve, Intake

- › B309-6678 x12

2) Valve, Exhaust

- › B339-9637 x12

3) Guide, Valve

- › B380-2073 x24

4) Spring, Valve

- › B436-0521 x24

5) Valve, Insert Intake

- › B377-0399 x12

6) Valve, Insert Exhaust

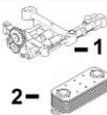
- › B377-0400 x12

7) Seal, Valve Intake

- › B299-5511 x24

9) Lock, Valve

- › B276-8123 x48



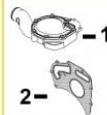
1) Oil Pump

- › B420-0454

2) Oil Cooler

- › B287-7424

2



1) Water Pump

- › B354-4754

2) Water Pump Gasket

- › B225-8019

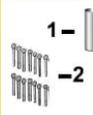


1) Thermostat

- › B417-7782

2) Thermostat Housing Gasket

- › B281-8744

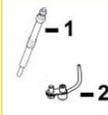


Repair Sleeve

- › 105RS

2) Head Bolts

- › B335-7055 x14



1) Glowplug

- › B298-3484

2) Piston Cooling Nozzle

- › B329-3796

2

(1): Lower gasket set does not contain the timing cover gasket or the oil pan gasket. Please order separately.
(2): Verify Application.
(3): Check application for proper usage.
(4): Included in the Bottom Set

Engine Model:

C7.1

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 4 Interim

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.13in /

105.00mm

Stroke: 5.31in /

135.00mm

Displacement:

427.7 in3 /7.01

Lt

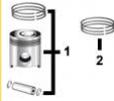
Please see page 603 for a complete list of equipment models.



Basic Kit

- › BBK730 Std.
- › BBK731 0.50
- › BBK732 1.00

1
1
1



1) Piston & Ring Kit

- › B361-2460 Std.
- › B361-5413 0.50
- › B361-5414 1.00

2) Ring Set

- › B360-2028 Std.
- › B449-2818 0.50
- › B449-2819 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

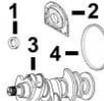
Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B371-8062

2) Rear Seal

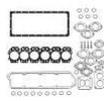
- › B292-0886

3) Crankshaft

- › B376-4074

4) Ring Gear

- › B277-0588 134T



1) Top Gasket Set

- › BC71CTOP

2) Bottom Gasket Set

- › BC71CBOT

3) Head Gasket

- › B422-4438

4) Valve Cover Gasket

- › B256-7704

5) Exhaust Manifold Gasket

- › B371-7601 x2

6) Timing Cover Gasket - Front Side

- › B335-5330

- › B348-9985

7) Timing Cover Gasket - Rear side

- › B319-9361

- › B330-4778

8) Oil Pan Gasket

- › B331-4400 Upper
- › B275-9884 Lower



1) Bush, Con Rod

- › B276-7478 x6

2) Bolt, Con Rod

- › B323-9312 x12

3) Connecting Rod

- › B331-0292

Belt Tensioner

- › B377-9082



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B336-7516

3) Tappet

- › B385-4313 x12

4) Pushrod

- › B319-8426 x12

Valve Train

1) Valve, Intake

- › B336-5446 x12

2) Valve, Exhaust

- › B336-5447 x12

3) Guide, Valve (Intake & Exhaust)

- › B356-9640 x24

4) Seal, Valve Stem

- › B387-9503 x24

5) Valve, Insert Intake

- › B322-4120 x12

6) Valve, Insert Exhaust

- › B343-5964 x12

7) Spring, Valve Intake

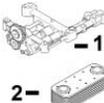
- › B436-0524 x12

Spring, Valve Exhaust

- › B436-0523 x12

8) Lock, Valve

- › B152-9860 x48

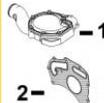


1) Oil Pump

- › B374-7136

2) Oil Cooler

- › B444-9675



1) Water Pump

- › B397-5682

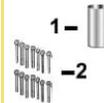
2) Water Pump Gasket

- › B353-8578



Thermostat

- › B497-3989



Repair Sleeve

- › 105RS

2) Head Bolts

- › B276-8134 x14



1) Glowplug

- › B462-2235 24volts

2) Piston Cooling Nozzle

- › B329-3796

3) Injector

- › B370-7281

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(5): Use with timing Cover – Front side B335-5330

(7): Check application for proper usage.

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(4): Use with timing Cover – Rear side B330-4778

(6): Use with timing Cover – Front side B348-9985

CATERPILLAR C7.1 – PISTON #436-7786 ACERT

Engine Model:

C7.1

Engine Desc:

TURBOCHARGED

Engine Data:

Tier 4 Interim

Engine Info:

6 Cyl

Engine

Dimensions:

Bore: 4.13in /

105.00mm

Stroke: 5.3in /

135.00mm

Displacement:

427.7 in3 /7.01

Lt

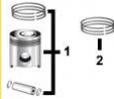
Please see page 604 for a complete list of equipment models.



Basic Kit

- › BBK734 Std.
- › BBK735 0.50
- › BBK736 1.00

1
1
1



1) Piston & Ring Kit

- › B436-7786 Std.
- › B421-7753 0.50
- › B421-7757 1.00

2) Ring Set

- › B360-2028 Std.
- › B449-2818 0.50
- › B449-2819 1.00

6 Per Engine



Main Bearing Set

- › B360-1978 Std.
- › B454-3745 0.010
- › B454-3931 0.020
- › B454-3935 0.030

Set of 7 Pairs



Con Rod Bearing Set

- › B360-1564 Std.
- › B458-7918 0.010
- › B458-7939 0.020
- › B458-7940 0.030

Set of 6 Pairs



Thrust Washer Set

- › B364-5145 Std.
- › B448-4227 0.007

Set of 2 Pcs



1) Front Seal

- › B371-8062

2) Rear Seal

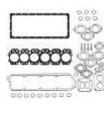
- › B292-0886

3) Crankshaft

- › B376-4074

4) Ring Gear

- › B033-7687 126T



1) Top Gasket Set

- › BC71DTOP

2) Bottom Gasket Set

- › BC71DBOT

3) Head Gasket

- › B424-8881

4) Valve Cover Gasket

- › B256-7704

5) Exhaust Manifold Gasket

- › B371-7601 x2

6) Timing Cover Gasket - Front Side

- › B335-5330

- › B348-9985

7) Timing Cover Gasket - Rear side

- › B319-9361

- › B330-4778

8) Oil Pan Gasket

- › B331-4400 Upper

- › B275-9884 Lower



1) Bush, Con Rod

- › B276-7478 x6

2) Bolt, Con Rod

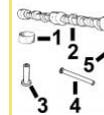
- › B323-9312 x12

3) Connecting Rod

- › B331-0290 x6

Belt Tensioner

- › B377-9082



1) Bushing, Cam

- › B276-5601 x1

2) Camshaft

- › B336-7516

3) Tappet

- › B385-4313 x12

4) Pushrod

- › B319-8426 x12

Valve Train

1) Valve, Intake

- › B336-5446 x12

2) Valve, Exhaust

- › B336-5447 x12

3) Guide, Valve (Intake & Exhaust)

- › B356-9640 x24

4) Seal, Valve Stem

- › B387-9503 x24

5) Valve, Insert Intake

- › B322-4120 x12

6) Valve, Insert Exhaust

- › B343-5964 x12

7) Spring, Valve Intake

- › B436-0524 x12

Spring, Valve Exhaust

- › B436-0523 x12

8) Lock, Valve

- › B152-9860 x48



1) Oil Pump

- › B374-7136

2) Oil Cooler

- › B444-9675



1) Water Pump

- › B397-5682

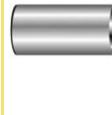
2) Thermostat

- › B497-3989



Water Pump Gasket

- › B353-8578



Repair Sleeve

- › 105RS

2) Head Bolts

- › B276-8134 x14



1) Glowplug

- › B462-2235 24volts

2) Piston Cooling Nozzle

- › B329-3796

3) Injector

- › B370-7282

(1): Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(3): Use with timing Cover – Rear side B319-9361

(5): Use with timing Cover – Front side B335-5330

(7): Check application for proper usage.

(2): Lower Gasket Set does not contain the timing cover gaskets nor the oil pan gaskets. Please order separately

(4): Use with timing Cover – Rear side B330-4778

(6): Use with timing Cover – Front side B348-9985