

**MAHLE**

*Driven by performance*

# GREAT PARTS FOR GREAT ENGINES

## CLEVITE REPLACEMENT PARTS FOR MERCEDES-BENZ MBE 4000 / OM 460 LA

HEAVY DUTY REPLACEMENT PARTS OFFERING

AFTERMARKET



**CLEVITE**<sup>®</sup>

**MAHLE**<sup>®</sup>  
ORIGINAL

# GREAT PARTS FOR GREAT ENGINES!

The MBE 4000 / OM 460 LA is an in-line 6 cylinder engine which has a bore of 128mm and stroke of 166mm, with a displacement of 12.8L. This is a turbocharged engine with air-to-air cooling. Available in power ranges from 350 to 450 HP.

There are more than 60,000 engines in the United States, covering On-Highway and Vocational applications.

The engine can be found in three different generations; EPA98, EPA04 and EPA07, each one of them showing improvements to meet the demanding EPA regulations standards.

Although this engine is known in North America as MBE 4000, it is actually known worldwide as OM 460 LA; the engine serial number will start with 460. E.g. 460.926 0 0795965.

Depending on engine serial breaks, EPA04 engines could require different piston part numbers. Verify your engine serial number to identify the correct parts for your engine.

The engine head consists of six individual heads. In the EPA98 and EPA04, the head and head gaskets can be found in two different styles, grommet and non-grommet style. Before installation, always verify the head gasket and cylinder head configuration is the same.

Different valves can be found depending on the engine model. Always verify the valve part number and shape of the valve head before installing the parts.

MAHLE Aftermarket Inc. now offers a complete range of engine parts, gaskets and thermostats to cover all possible combinations for this engine.

# CYLINDER COMPONENTS

PART #	DESCRIPTION	OE REFERENCE	NOTES
226-2095	Cylinder Sleeve Assembly	A460 030 22 37, A460 030 32 37	EPA98
226-2096	Cylinder Sleeve Assembly	A460 030 33 37, A460 030 13 37	EPA04 - Up to S/N 813071
226-2097	Cylinder Sleeve Assembly	A460 030 35 37, A460 030 34 37	EPA04 - As of S/N 813072 and EPA07
226-4627X	Cylinder Sleeve (Bare)	A460 011 02 10	EPA98
226-4629X	Cylinder Sleeve (Bare)	A460 011 20 10	EPA04 and EPA07
226-4627	Cylinder Sleeve	A460 011 02 10	EPA98
226-4629	Cylinder Sleeve	A460 011 20 10	EPA04 and EPA07
224-3867	Piston	A460 030 05 17 - Piston 460 04	EPA98
224-3868	Piston	A460 030 08 17 - Piston 460 05	EPA04 - Up to S/N 813071
224-3869	Piston	A460 030 10 17, A460 030 13 17 - Piston 460 06	EPA04 - As of S/N 813072 and EPA07
223-7221	Sleeve O-Ring Kit	See Notes	EPA98
223-7225	Sleeve O-Ring Kit	See Notes	EPA04 and EPA07
223-4004	Nozzle Kit	See Notes	Contains Nozzle A460 180 00 43 and Bolt A460 990 00 63
223-4005	Nozzle Kit	See Notes	Contains Nozzle A460 180 03 43 and Bolt A460 990 00 63
223-4006	Nozzle Kit	See Notes	Contains Nozzle A460 180 04 43 and Bolt A460 990 00 63
S42251	Ring Set	A460 030 01 24, A460 030 03 24, A460 030 04 24	Consolidated Set, All EPAs

# BEARINGS

PART #	DESCRIPTION	OE REFERENCE	NOTES
CB-1970P	Connecting Rod Bearing	A460 030 07 60	Pair
CB-1970P-.25mm	Connecting Rod Bearing	A542 030 19 60	Pair
MS-2332P	Main Bearing Set	A460 030 00 40	
MS-2332P-.25mm	Main Bearing Set	A460 030 03 40	
MS-2332P-.50mm	Main Bearing Set	A460 030 04 40	

# FILTERS

PART #	DESCRIPTION	OE REFERENCE	NOTES
KX 80D ECO	Fuel Filter Element	A457 090 00 51, A541 090 01 51	
OX 348D ECO	Oil Filter Element	A000 180 29 09	

# GASKETS

PART #	DESCRIPTION	OE REFERENCE	NOTES
HS54978	Engine Cylinder Head Gasket Set	A457 010 82 20	6 required per engine, Contains Non-grommet style head gasket
HS54979	Engine Cylinder Head Gasket Set	A460 010 12 20	6 required per engine, Contains Grommet style head gasket
CS54978	Engine Conversion Gasket Set	A460 010 05 05, A460 010 10 05	Oil pan gasket not included
54978	Engine Cylinder Head Gasket	A460 016 05 20	6 required per engine, Non- grommet style
54979	Engine Cylinder Head Gasket	A460 016 04 20	6 required per engine, Grommet style
MS19863	Intake Manifold Gasket	A457 142 01 80, A457 098 01 80	6 required per engine
MS19864	Exhaust Manifold Gasket	A541 142 03 80, A541 142 04 80	6 required per engine
MS19913	Exhaust Manifold Gasket	A460 142 21 80	3 required per engine
MS19914	Intake and Exhaust Manifolds Com- bination Gasket	See Notes	1 required per engine, Contains (6) A457 098 01 80 and (6) A541 142 04 80
MS19915	Intake and Exhaust Manifolds Com- bination Gasket	A460 140 00 09, A460 140 07 14	1 required per engine, Contains (6) A457 098 01 80 and (3) A460 142 21 80
VS50712	Engine Valve Cover Gasket	A460 016 00 21, A460 016 01 21	6 required per engine
SS46075	Engine Valve Stem Seal Set	A000 053 35 58	Contains 24 pcs
SS46074	Engine Valve Stem Seal Set	A000 053 53 58, A000 053 58 58	Contains 24 pcs
OS32450	Engine Oil Pan Gasket	A457 014 02 22	Paper gasket, optional with OS32451
OS32451	Engine Oil Pan Gasket	A457 014 05 22	Steel elastomer gasket, Optional with OS32450
GS33663	Engine Cylinder Head Bolt Set	A457 990 02 01, A457 990 05 01	6 required per engine
GS33713	Fuel Injector Seal Kit	See Notes	Contains A906 017 08 60 Sealing Sleeve, A541 997 05 45, A541 997 06 45, A541 997 07 45, A541 997 04 45 O-Rings
67993	Wear Sleeve (Front)	A442 031 00 27	Use with front crankshaft seal A014 997 46 47
67994	Wear Sleeve (Rear)	A403 032 03 09	Use with rear crankshaft seal A013 997 14 47
67996	Engine Timing Cover Seal	A025 997 39 47	Teflon - ID 100 x OD 130 x Depth 11
67960	Engine Timing Cover Seal	A014 997 46 47	Rubber - ID 105 x OD 130 x Depth 12
67995	Engine Timing Cover Seal	See Notes	Teflon - ID 105 x OD 130 x Depth 12
67998	Rear Main Seal	A025 997 50 47	Teflon - ID 115 x OD 140 x Depth 12
67959	Rear Main Seal	A013 997 14 47	Rubber - ID 120 x OD 140 x Depth 13
67997	Rear Main Seal	See Notes	Teflon - ID 120 x OD 140 x Depth 13



# THERMOSTATS

PART #	DESCRIPTION	OE REFERENCE	NOTES
TX 18 71D	Thermostat, Insert	A005 203 28 75, A004 203 84 75	71° Celcius
TX 18 79D	Thermostat, Insert	A005 203 27 75, A004 203 85 75	79° Celcius
TX 18 83D	Thermostat, Insert	A005 203 26 75, A004 203 83 75	83° Celcius

## ANCILLARY

PART #	DESCRIPTION	OE REFERENCE
211-4313	Valve (Intake)	A541 050 02 26, A457 053 00 01
211-4314	Valve (Exhaust)	A541 050 02 27
211-4317	Valve (Intake)	A541 053 01 01, A460 053 00 01, A541 053 00 01
211-4318	Valve (Exhaust)	A457 050 03 27, A457 050 05 27

## ENGINE KITS

PART #	DESCRIPTION	OE REFERENCE	NOTES
486-1044	Overhaul Kit	Assembly A460 030 22 37, A460 030 32 37	EPA98 - Non-grommet style head gasket
486-5044	In-Frame Kit	Assembly A460 030 22 37, A460 030 32 37	EPA98 - Non-grommet style head gasket
486-1045	Overhaul Kit	Assembly A460 030 22 37, A460 030 32 37	EPA98 - Grommet style head gasket
486-5045	In-Frame Kit	Assembly A460 030 22 37, A460 030 32 37	EPA98 - Grommet style head gasket
486-1046	Overhaul Kit	Assembly A460 030 33 37, A460 030 13 37	EPA04 up to engine 813071 - Non-grommet style head gasket
486-5046	In-Frame Kit	Assembly A460 030 33 37, A460 030 13 37	EPA04 up to engine 813071 - Non-grommet style head gasket
486-1047	Overhaul Kit	Assembly A460 030 35 37, A460 030 34 37	EPA04 from engine 813072 to 866442 - Non-grommet style head gasket
486-5047	In-Frame Kit	Assembly A460 030 35 37, A460 030 34 37	EPA04 from engine 813072 to 866442 - Non-grommet style head gasket
486-1048	Overhaul Kit	Assembly A460 030 35 37, A460 030 34 37	EPA04 as of engine 866443 and EPA07 - Grommet style head gasket
486-5048	In-Frame Kit	Assembly A460 030 35 37, A460 030 34 37	EPA04 as of engine 866443 and EPA07 - Grommet style head gasket

\* Bearings for undersize cranks are available at no extra charge



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HD-1-815A