

Sourcing & Service

Liner Kit / Cylinder Kit

ISUZU DIESEL



Important Information

The information provided in this catalog has been carefully compiled, but we may emphasize that it is non-committing. We do not give any warranty for the correctness. Particularly we do not undertake any warranty for changes in the equipment by the manufacturers of vehicles or engines nor for changes in the designation of the parts. Any references to errors in the catalog which you may advise are welcome and will lead to corrections in future issues of the catalog.

Names, descriptions, numbers of vehicles or manufacturers etc. are only stated for reference. All figures, drawings and other data serve for explanatory and for illustration purposes only. Any reprint, imitation and reproduction shall be subject to our prior approval in writing with exact indication of the source.

Subject to be changed without notice.

1. Design feature of Pistons



Cast Piston

Distinguish itself with a long operating life and economic viability for gasoline and diesel engines. In this piston, the piston crown, ring zone and skirt make a robust unit. Therefore the possibilities for use range from a small to a large engine



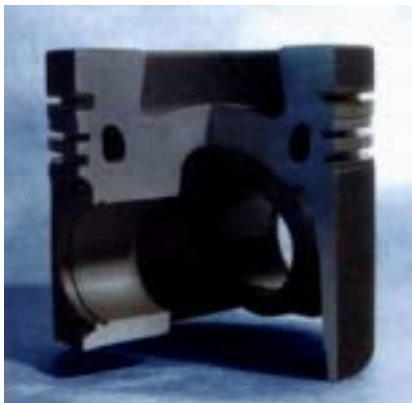
Al-fin Piston

Have a ring carrier made of special cast iron which is cast into piston. This provides protection to the top ring groove from the wear and tear which diesel engines in particular are increase the loads to which the pin boss can be subjected.



Al-fin & cooling gallery piston

The piston is used in situations in which particularly high operating temperature occur. In order to reduce the high temperatures—which are caused by the increased performance—in the piston crown and in the ring area, intensive cooling is done by circulating oil in the cooling gallery.



Al-fin, cooling gallery & head anodized piston

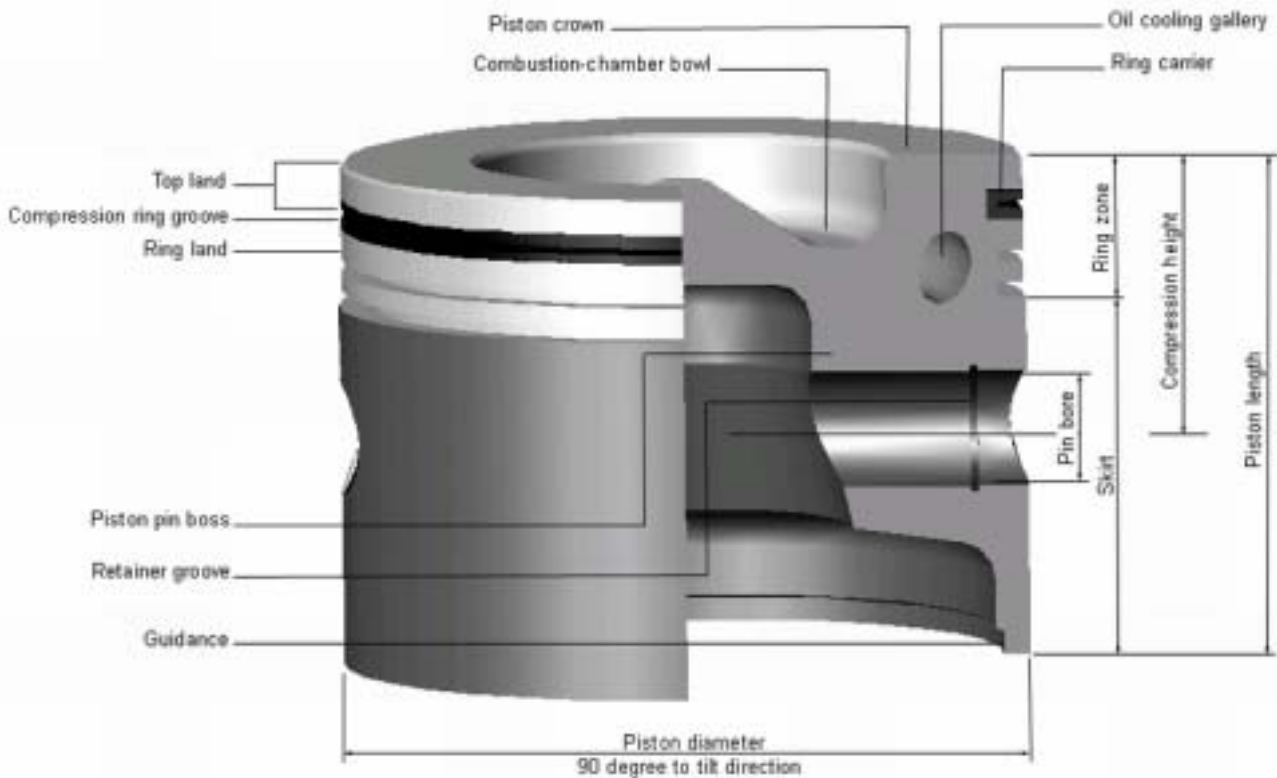
This design is used for highly loaded diesel engines. For additional protection and in order to avoid cracking in the combustion chamber and the crown, the piston has a special hard anodized layer on the piston crown. (Head anodized)



Two pieces piston

Consist of a steel piston head and an aluminum piston skirt which have a moveable connection to each other via the piston pin. Due to great strength and low wear and tear, it is possible to achieve low exhaust emission values for diesel engines that are subjected to particularly high loads.

2. Technical Terms of the piston



Fitting recommendation

Shrink fit

Assembling pistons and pins with shrink fit in the con rod requires the greatest of care. It is particularly important that there is freedom of movement between piston and pin after assembly.

Floating pin

For pistons with floating pins, the enclosed circlips serve to fix the piston in the piston pin bore. The circlips must be mounted with a suitable tool. When this is done it should be ensured that the circlips fit completely into the slot for which they are intended and that the impact is always in the stroke direction of the piston.

Never use old circlips and avoid pressing them together too much, otherwise permanent deformations can result.

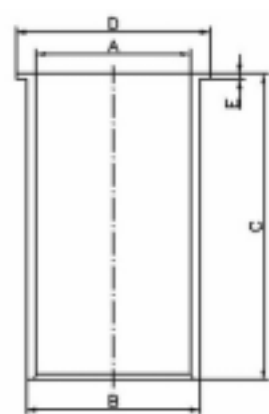
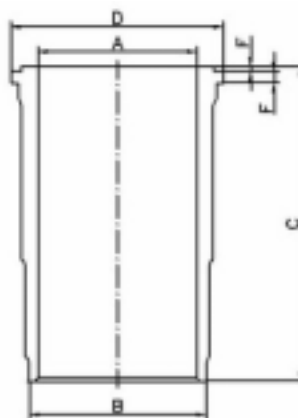
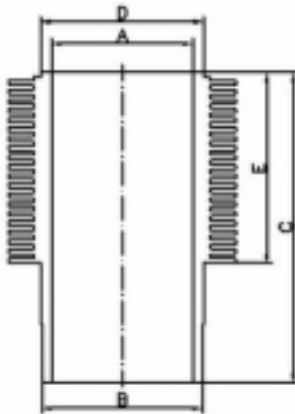
Installation of the piston

When the piston is installed, the installation direction must be observed. The impacts on the individual piston rings are to be distributed evenly across their circumference. The pin locking device is to be installed in such a way that the impact is at the top or the bottom. The cylinder bore or the pistons and the rings must be oiled.

In order to avoid damage when the piston is being fitted in the cylinder bore, a suitable tool is to be used for assembly.

In the case of Diesel engines, the clearance must be measured and the relevant instructions from the engine manufacturer must be followed. The part of the engine (cylinder block, crankshaft, con rod and pil pan) must be cleaned carefully before assembly to remove machining residues and deposits.

3. Types and technical terms of the cylinder liner



Main dimensions

- A = maximum finished diameter for pre-machined liners(Fully-finished)
- B = Fitting diameter
- C =Total length
- D =Flange diameter
- E =Flange height
- F =Fire protection rim height

Fitting recommendation

Wet cylinder liners



The location bores and particularly the running surfaces in the cylinder block must be cleaned carefully, and they must be undamaged. Corroded surfaces must be reworked (use flange liners and outer diameter oversize liners). As this is done, make sure that the liners move in easily and that they take up the correct position (the projecting length of the liner must be in accordance with the regulations of the engine manufacturer). After the liner has been installed with the seal rings that belong to it (use slip agent), the cylinder diameter is to be checked—particularly in the region of seal rings—so as to determine whether any deformation has been caused by pinched sealing rings. Using the wrong sealing rings (wrong diameter/wrong material) can cause a narrowing of the cylinder, which can lead to engine damage. The cooling system should be pressure tested after the liners have been installed, so as to determine whether there is any leakage before the engine is started.

Semi-finished cylinder liners



The surface which supports the flange must be vertical to the location bore and it must be sufficiently and evenly beveled. If the liner flange is unevenly supported it can tear off. After the installation of the liner, which is only semi-finished in its inside diameter, this cylinder boring is finely bored and then finished by honing until it has the specified dimensions or, in the case of finely bored liner, it is only finished by honing (tolerance accordingly to DIN/ISO H5). The surface of the liner must be flush to the sealing surface of the cylinder block; if necessary, the block surface and the liner must be finished by surface grinding.

Finished cylinder liners



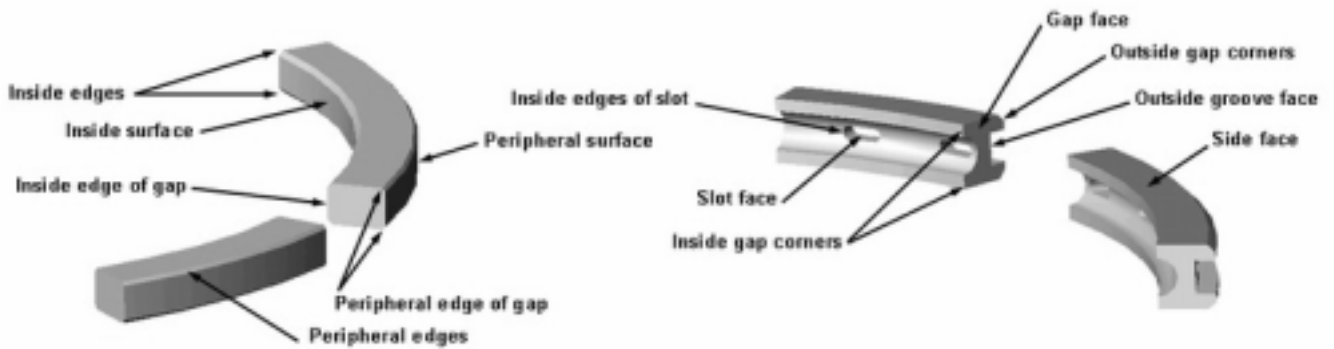
Before the liner is installed, the locating bore in the cylinder block must be cleaned carefully, and must be checked to ensure the accuracy of the dimensions and to determine whether any distortion has occurred. Out-of-center or damaged bores can be reworked for the installation of oversize liners. It is important for this that the locating bore is cylindrical, as this is what determines the geometrical shape of the inside of the pressed-in, thin-walled liner.

Finned cylinders



In accordance with the instructions from the engine manufacturer, cast iron cylinders or light alloy cylinders are used. Light alloy cylinders are separated into several groups due to the small installation clearance in the standard cylinder dimensions.

4. Types and technical terms of the piston ring



Cross-section configurations

Sealing rings



Barrel-faced ring



Rectangular ring



Taper-faced ring



Half keystone ring



Keystone ring



Napier ring



Scrapper ring(Stepped)

Oil control rings



Bevelled edge oil control ring



Coil spring loaded beveled edge oil control ring



Steel-rail oil control ring (multi piece)

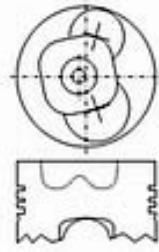
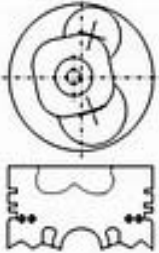
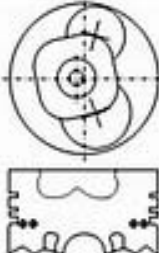
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4BA1 Elf Truck TLD34.44.54 TLD 26.64 , 2775 cc	98.0	4	5-87810087-3 5-87813-324-0	5-11261-802-0 9-11261-802-2	5-12111-055-1 8-97176-626-0	9-12251-059-0	5-12121-001-0 5-12121-019-0 5-12181-025-0 5-12181-601-0 R17150
Piston : Tin Plated. Liner :Chromed .				Length 180.0 (180.5) O/D 102.2 (101.0) Flange Dia. 108.0 (108.0) Flange Height 4.0 (1.4) (Chromed)	Length 112.3 Comp. Height -2.0 Pin Dia. 33.0 Length 84.0		1st 3.0 2nd 2.5 Oil 5.0
4BB1 Elf Trcuk KS11,21,31,KS121D,KA31 3595 cc	102.0	4	5-87810-088-1 5-87813-108-0	5-11261-242-0 9-11261-118-0	5-12111-013-0 1-12111-745-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Piston : Tin Plated.Rectangle Combustion Chamber 52mm Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 112.4 Comp. Height -19.0 Pin Dia. 35.0 Length 87.8		1st 3.0 2nd 2.5 Oil 5.0
6BB1 Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322 , 5393CC	102.0	6	1-87810-088-6 1-87811-521-0	5-11261-242-0 9-11261-118-0	5-12111-013-0 1-12111-745-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Piston : Tin Plated.Rectangle Combustion Chamber 52mm Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 112.4 Comp. Height -19.0 Pin Dia. 35.0 Length 87.8		1st 3.0 2nd 2.5 Oil 5.0
6BB1 Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322 , 5393CC	102.0	6	1-87811-517-0 1-87810-833-2	5-11261-242-0 9-11261-118-0	5-12111-743-0 1-12111-634-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Piston : Tin Plated.Rectangle Combustion Chamber 53mm Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 112.4 Comp. Height -19.0 Pin Dia. 35.0 Length 87.8		1st 3.0 2nd 2.5 Oil 5.0

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4BC1 Elf Journey. 3268 cc	102.0	4	5-81810172-1 5-87810210-1	5-11261-014-0 5-11261-014-2	5-12111-172-1 5-12111-188-1	5-12251-010-0 9-12251-603-0	5-12121-004-0 R17531
Piston : Alfin & Tin Plated. Liner :Chromed .				Length 187.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 112.0 Comp. Height 58.5 -2.2 Pin Dia. 33.0 Length 83.0		1st 3.0 2nd 2.5 Oil 5.0
4BC2 Elf Journey, 3268 cc	102.0	4	5-87810-211-4 5-87810-292-2	5-11261-014-0 5-11261-014-2	5-12111-230-4 8-94169-765-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Piston : Tin Plated.Rectangle Combustion Chamber 49mm Liner :Chromed .				Length 185.5 (187.0) O/D 106.0 (105.0) Flange Dia. 110.3 (112.0) Flange Height 10.1 (1.4) (Chromed)	Length 98.1 Comp. Height 58.9 -17.7 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
4BD1 Elf Trcuk KS11,21,31,KS121D,KA31 3856 cc	102.0	4	5-87810093-7	5-11261-004-0 9-11261-118-0	5-12111-068-2 5-12111-068-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Piston : Tin Plated. Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 104.2 Comp. Height 59.0 -20.0 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
4BD1 Elf Trcuk KS11,21,31,KS121D,KA31 3856 cc	102.0	4	5-87813-145-0	1-11261-242-0	8-97176-638-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Piston : Tin Plated.Rectangle Combustion Chamber 51mm Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.2 Comp. Height 58.9 Pin Dia. 35.0 Length 87.0		1st 3.0 2nd 2.5 Oil 5.0

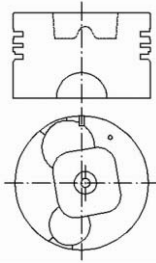


Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6BD1	102.0	6		5-11261-004-0 9-11261-118-0	5-12111-068-0 5-12111-068-2	1-12251-027-0 5-12251-006-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322, 5785CC							
Piston : Tin Plated. Liner :Chromed .				Length 204.0 (204.0) O/D 105.0 (105.0) Flange Dia. 112.0 (112.0) Flange Height 4.0 (1.4) (Chromed)	Length 104.2 Comp. Height -20.0 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
6BD1	102.0	6	1-87811-604-0 1-87810-918-0	1-11261-242-0 9-11261-118-0	5-12111-753-0 1-12111-609-0	1-12251-027-0 5-12251-006-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322, 5785CC							
Piston : Tin Plated.Rectangle Combustion Chamber 55mm Liner :Chromed .				Length 204.0 (204.0) O/D 105.0 (105.0) Flange Dia. 112.0 (112.0) Flange Height 4.0 (1.4) (Chromed)	Length 104.2 Comp. Height -20.0 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
4BD1 New	102.0	4	5-87810479-1	5-11261-004-0 9-11261-118-0	8-94452-912-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Elf ,Truck KS11,21,31,KS121D,KA31, 3856 cc							
Piston : Alfin & Tin Plated. Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.0 Comp. Height -19.8 Pin Dia. 35.0 Length 87.0		1st 3.0 2nd 2.5 Oil 5.0
4BD1T	102.0	4	5-87813-324-0 5-87810-555-1	5-11261-242-0 9-11261-118-0	8-97176-836-0 8-94321-734-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Elf Trucuk KS11,21,31,KS121D,KA31 3856 cc							
Piston : Alfin & Tin Plated.Rectangle Combustion Chamber 51mm Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.0 Comp. Height -19.8 Pin Dia. 35.0 Length 87.0		1st 3.0 2nd 2.5 Oil 5.0

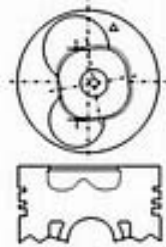
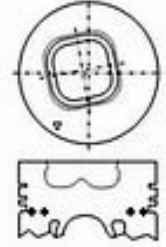
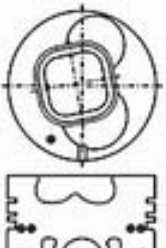
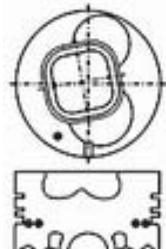
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4BD1T Elf Trcuk KS11,21,31,KS121D,KA31 3856 cc	102.0	4	5-87813-140-0 5-87810-529-1	5-11261-004-0 9-11261-118-0	8-97176-636-0 5-12111-242-1	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Piston : Alfin & Tin Plated. Rectangle Combustion Chamber 51mm Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.1 Comp. Height 58.8 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
4BD1T Elf Trcuk KS11,21,31,KS121D,KA31 3856 cc	102.0	4	1-87810226-5	5-11261-004-0 9-11261-118-0	5-12111-240-1 1-12111-303-0 1-12111-303-1 1-12111-240-1	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0/cyl. 5-12181-003-1 5-12181-024-1 R17210
Piston : Alfin & Tin Plated. Liner :Chromed .				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 104.2 Comp. Height 58.8 -19.7 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
6BD1T Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322 , 5393CC	102.0	6	1-87811-353-0 1-87810-366-3	5-11261-242-0 9-11261-118-0	1-12111-773-0 1-12111-303-1	1-12251-027-0 5-12251-006-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Piston with ALFIN & Tin plated. Rectangle Combustion Chamber 55mm Liner: Chromed.				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 104.2 Comp. Height 58.8 -19.7 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
6BD1T Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322 , 5393CC	102.0	6	1-87811-362-0 1-87810-457-2	5-11261-242-0 9-11261-118-0	8-97176-836-0 8-94321-734-0	1-12251-027-0 5-12251-006-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Piston with ALFIN & Tin plated. Rectangle Combustion Chamber 51mm Liner: Chromed.				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.1 Comp. Height 58.8 Pin Dia. 35.0 Length 87.0		1st 3.0 2nd 2.5 Oil 5.0

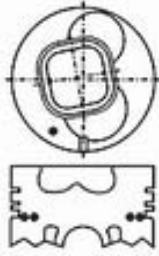

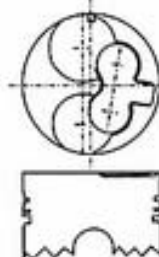
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6BD1T Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322 , 5393CC	102.0	6	1-87811-549-0 1-87810-226-5	5-11261-242-0 9-11261-118-0	1-12111-777-0 1-12111-303-1	1-12251-027-0 5-12251-006-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Piston with ALFIN & Tin plated. Rectangle Combustion Chamber 55mm Liner: Chromed.				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 104.2 Comp. Height 58.75 Pin Dia. 35.0 Length 87.0		1st 3.0 2nd 2.5 Oil 5.0
6BD1T Truck:SBR320.380.400.450.500.680 JBR FBR370 YBR360 310 Tractor:VBR320 VBR322 , 5393CC	102.0	6	1-87810-340-1 1-87811-545-0	5-11261-004-0 9-11261-118-0	1-12111-325-1 1-12111-775-0	1-12251-027-0 5-12251-006-0	5-12121-055-0/cyl. 5-12181-023-2 R17300
Piston with ALFIN & Tin plated.Round Combustion Chamber 55mm Liner: Chromed.				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.0 Comp. Height -19.5 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
4BD2T 1992'~1994' Truck KS11,21,31 KS121D,KA31 3856cc	102.0	4	5-87810-922-1 5-87813-149-0	5-11261-004-0 9-11261-118-0 1-11261-242-0	8-97025-457-2 8-97176-640-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	5-12121-005-0 5-12181-003-1 5-12181-024-1 R17210
Piston with ALFIN,Oil Gallery & Head Anodized,Tin plated. Liner: Chromed.				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.1 Comp. Height -2.6 Pin Dia. 35.0 Length 87.4		1st 3.0 2nd 2.5 Oil 5.0
4BD2T New 1995'~1998' Truck KS11,21,31 KS121D,KA31 3856cc	102.0	4	1-87811-839-2	5-11261-004-0 9-11261-118-0 1-11261-242-0	8-97176-642-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	8-97117-686-0 SDI10-147ZZ
Piston with ALFIN,Oil Gallery & Head Anodized,Tin plated. Liner: Chromed.				Length 204.0 O/D 105.0 Flange Dia. 112.0 Flange Height 1.4	Length 98.1 Comp. Height -3.1 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.0 Oil 4.0

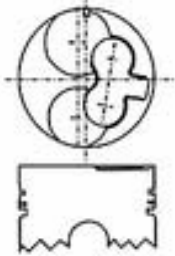
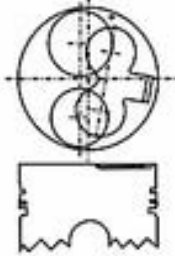
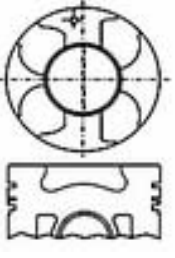
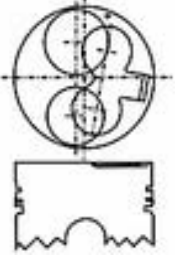
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4BE1 Elf 2ton,3636cc	105.0	4		5-11261-016-2	5-12111-022-0 8-94438-989-1	1-12251-027-0 5-12251-006-0 9-12251-602-0	8-94418-918-0 R17980
Piston with ALFIN & Tin plated. Liner: Chromed.				Length 187.0 O/D 107.0 Flange Dia. 113.0 Flange Height 1.4	Length 95.6 Comp. Height -18.1 Pin Dia. 35.0 Length 85.0		1st 3.0 2nd 2.5 Oil 5.0
4BE1 (Type 2) Elf NPR58 3636cc	105.0	4	5-87810-832-0 5-87813-160-0	5-11261-016-2	8-94478-116-0 8-97176-648-0	1-12251-027-0 5-12251-006-0 9-12251-602-0	8-94418-918-0 R17980
Piston with ALFIN & Tin plated. Rectangle Combustion Chamber 51mm Liner: Chromed.				Length 187.0 O/D 107.0 Flange Dia. 113.0 Flange Height 1.4	Length 95.7 Comp. Height -18.0 Pin Dia. 35.0 Length 85.0		1st 3.0 2nd 2.5 Oil 5.0
6BF1 Forward , 6130cc	105.0	6		1-11261-119-0	1-12111-345-0	1-12251-027-0 5-12251-006-0	1-12121-052-0 5-12121-006-0 R17920
Piston with ALFIN & Tin plated. Liner: Chromed.				Length 203.0 O/D 107.0 Flange Dia. 112.8 Flange Height 1.4	Length 110.0 Comp. Height -19.8 Pin Dia. 35.0 Length 87.5		1st 3.0 2nd 2.5 Oil 5.0
6BG1 Forward FRS12,FTR12 6494cc	105.0	6	1-87811-418-0 1-87810-394-2	1-11261-250-0 1-11261-119-0	1-12111-781-0 1-12111-377-4	1-12251-027-0 5-12251-006-0	1-12121-065-0 R17004
Piston with ALFIN & Tin plated. Rectangle Combustion Chamber 57mm Liner: Chromed.				Length 203.0 O/D 107.0 Flange Dia. 112.8 Flange Height 1.4	Length 94.6 Comp. Height -18.7 Pin Dia. 35.0 Length 87.4		1st 3.0 2nd 2.5 Oil 4.0

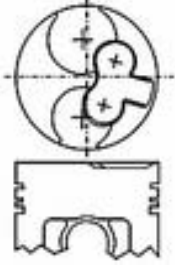
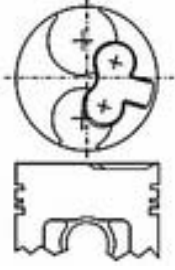
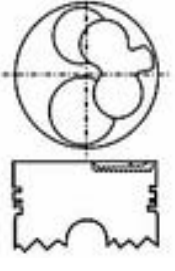
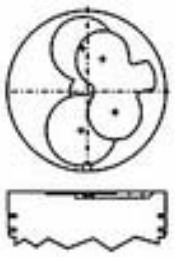
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6BG1T	105.0	6		1-11261-119-0	1-12111-471-0	1-12251-027-0 5-12251-006-0	1-12121-065-0 R17004
Forward FRS12,FTR12 6494cc							
Piston with ALFIN & Tin plated. Liner: Chromed.				Length 203.0 O/D 107.0 Flange Dia. 112.8 Flange Height 1.4	Length 94.6 Comp. Height -18.6 Pin Dia. 35.0 Length 87.4		1st 3.0 2nd 2.5 Oil 4.0
6BG1T	105.0	6	1-87811-553-0 1-87810-411-2	1-11261-119-0 1-11261-250-0	1-12111-761-0 1-12111-366-0	1-12251-027-0 5-12251-006-0	1-12121-065-0 R17004
Forward FRS12,FTR12 6494cc							
Piston with ALFIN & Tin plated.Rectangle Combustion Chamber 60mm Liner: Chromed.				Length 203.0 O/D 107.0 Flange Dia. 112.8 Flange Height 1.4	Length 94.6 Comp. Height 55.3 Pin Dia. 35.0 Length 87.0		1st 3.0 2nd 2.5 Oil 4.0
6BG1TC	105.0	6	1-87811-407-0 1-87810-904-0	1-11261-119-0 1-11261-250-0	1-12111-785-0 1-12111-626-0	1-12251-027-0 5-12251-006-0	1-12121-115-0 R17864
Forward FRS12,FTR12 6494cc							
Piston with ALFIN,Oil gallery & Tin plated.Round Combustion Chamber 56mm Liner: Chromed.				Length 203.0 O/D 107.0 Flange Dia. 112.8 Flange Height 1.4	Length 94.5 Comp. Height -22.0 Pin Dia. 35.0 Length 87.5		1st 3.5 2nd 2.5 Oil 4.0
4EC1	76.0	4			8-94129-828-0	8-94251-216-1	8-94144-187-0 8-94332-767-1 R17600 8-94342-490-0 R17985
Gemini Diesel , 1487cc							
Piston with ALFIN & Tin plated. Liner: Semi-Finished, No flange.				Length 140.0 (145.0) O/D 80.0 (80.0) Flange Dia. (84.0) Flange Height (5.0)	Length 71.7 Comp. Height -1.6 Pin Dia. 22.0 Length 60.0		1st 2.0 2nd 1.5 Oil 3.0

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4EC1T	76.0	4			8-94129-276-4	8-94114-054-0	8-94144-187-0 8-94332-767-1 R17600 8-94342-490-0 R17985
Gemini Diesel , 1487cc							
Piston with ALFIN & Tin plated. Liner: Semi-Finished, No flange.				Length 140.0 (145.0) O/D 80.0 (80.0) Flange Dia. (84.0) Flange Height (5.0)	Length 71.7 Comp. Height -1.2 Pin Dia. 25.0 Length 60.0		1st 2.0 2nd 1.5 Oil 3.0
4EE1T	79.0	4			8-97043-772-0 8-97043-773-0	8-94369-904-0	8-94381-709-0 8-94381-709-1 R17895
1686cc							
Piston with ALFIN & Tin plated. Liner: Semi-Finished, No flange.				Length 144.0 (144.0) O/D 83.0 (83.0) Flange Dia. (87.0) Flange Height (2.0)	Length 69.7 Comp. Height -1.5 Pin Dia. 27.0 Length 64.0		1st 2.0 2nd 1.5 Oil 3.0
4EE1T New	79.0	4			8-97188-927-2	8-94369-904-0	8-94381-709-0 8-94381-709-1 R17895
1686cc							
Piston with ALFIN, Skirt with MoS2 coating & Tin plated. Liner: Semi-Finished, No flange.				Length 144.0 (144.0) O/D 83.0 (83.0) Flange Dia. (87.0) Flange Height (2.0)	Length 84.0 Comp. Height -10.4 -14.0 Pin Dia. 27.0 Length 64.0		1st 2.0 2nd 1.5 Oil 3.0
4EE1	79.0	4			8-97129-437-0 8-97129-437-1 8-97129-437-2	8-94114-054-0	8-94381-709-0 8-94381-709-1 R17895
1686cc							
Piston with ALFIN & Tin plated. Liner: Semi-Finished, No flange.				Length 144.0 (144.0) O/D 83.0 (83.0) Flange Dia. (87.0) Flange Height (2.0)	Length 79.7 Comp. Height -1.2 Pin Dia. 25.0 Length 60.0		1st 2.0 2nd 1.5 Oil 3.0

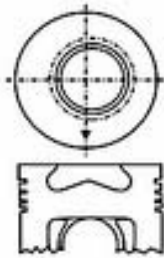

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4FB1	84.0	4		5-11261-119-0	8-94201-492-0 8-94228-886-2 8-94235-962-0	5-12251-007-0	8-94139-973-0 8-94224-221-0 R17650
Gemini Diesel PFD60 Fargo WFR51 , 1817cc							
Piston with Tin plated. Liner: Semi-Finished, No flange.				Length 168.0 (172.0) O/D 88.0 (88.0) Flange Dia. (92.0) Flange Height (4.0)	Length 74.8 Comp. Height -1.8 Pin Dia. 25.0 Length 67.2		1st 2.5 2nd 2.0 Oil 4.0
4FC1	84.0	4		5-11261-119-0	8-94111-655-1 8-94228-887-0 8-94228-887-1	5-12251-007-0	8-94139-973-0 8-94224-221-0 R17650
Aska , Fargo , 1995cc							
Piston with Tin plated. Liner: Semi-Finished, No flange.				Length 168.0 (172.0) O/D 88.0 (88.0) Flange Dia. (92.0) Flange Height (4.0)	Length 76.6 Comp. Height -2.0 Pin Dia. 25.0 Length 67.2		1st 2.5H 2nd 2.0 Oil 4.0
4FD1	88.0	4			8-94105-454-0	8-94247-838-0	8-94250-730-0 R17935
Rodio 83,Bighorn 2189cc							
Piston with ALFIN & Tin plated. Liner: Semi-Finished, No flange.				Length 165.0 (169.0) O/D 92.0 (92.0) Flange Dia. (96.0) Flange Height (4.0)	Length 80.6 Comp. Height -2.1 Pin Dia. 27.0 Length 68.0		1st 2.0 2nd 2.0 Oil 4.0
4FG1	89.3	4			8-94454-813-0 8-97073-851-0	8-94247-838-0	8-94469-634-0 R17003
Frago ,WFR62 2380cc							
Piston with ALFIN & Tin plated. Liner: Semi-Finished, No flange.				Length 190.5 (194.5) O/D 93.3 (93.3) Flange Dia. (97.3) Flange Height (4.0)	Length 80.7 Comp. Height -2.6 Pin Dia. 27.0 Length 68.0		1st 2.0 2nd 2.0 Oil 4.0

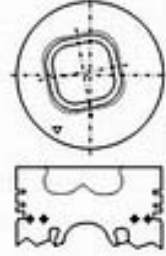



Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4HE1T Elf , NPR , 4751cc	110.0	4		8-97176-723-0 8-97176-724-0 8-97176-725-0 8-97176-726-0 8-97176-728-0	8-97176-652-0 8-97183-664-0 8-97183-665-0 8-97233-129-0 8-97233-130-0	8-94394-613-0	8-97078-779-0 R17685
Piston with ALFIN, Oil gallery & Tin plated. Liner: Fully Finished.				Length 210.0 O/D 115.0 Flange Dia. 121.7 Flange Height 5.7+0.4	Length 120.0 Comp. Height 66.2 -8.0 -22.2 Pin Dia. 40.0 Length 87.0		1st 3.0 H 2nd 2.5 Oil 4.0
4HE1TC Elf , NPR , 4751cc	110.0	4		8-94391-600-0 8-94391-601-0	8-94391-696-0	8-94394-613-0	8-97166-992-0 SDI-10177
Piston with ALFIN, Oil gallery, Skirt with MoS2 Coating & Tin plated. Liner: Fully Finished.				Length 210.0 O/D 113.0 Flange Dia. 119.7 Flange Height 5.6+0.4	Length 110.0 Comp. Height 66.2 -22.6 Pin Dia. 40.0 Length 87.0		1st 3.0 K 2nd 2.0 3rd 1.2 Oil 3.0
6HE1 Forward Truck 7127cc	110.0	6	1-87810-853-0	8-94396-332-0 8-94391-600-0	8-94396-837-0 8094391-597-0	8-94394-613-0	8-94396-840-0 R17175
Piston with ALFIN & Tin plated. Rectangle Combustion Chamber 56mm Liner: Fully Finished & Phosphated.				Length 210.0 O/D 113.0 Flange Dia. 120.0 Flange Height 6.0	Length 99.9 Comp. Height 66.0 -19.5 Pin Dia. 36.0 Length 79.0		1st 3.0 2nd 2.5 Oil 4.0
6HE1T Forward Truck 7127cc	110.0	6	1-87811-663-0	8-94391-600-0 8-94391-601-0	1-87310-059-0 1-87310-060-0 8-94391-594-0 8-94391-596-0 1-12111-605-0	8-94394-613-0	8-94390-529-1 SDI10-146ZZ 8-94395-061-5 SJI10-146ZZ
Piston with ALFIN ,Oil Gallery & Tin plated.Round Combustion Chamber 56mm Liner: Fully Finished & Phosphated.				Length 210.0 O/D 113.0 Flange Dia. 119.7 Flange Height 5.6+0.4	Length 119.8 Comp. Height 66.1 -8.0 -22.0 Pin Dia. 40.0 Length 87.0		1st 3.836 K 2nd 3.0 3rd 2.5 Oil 3.0



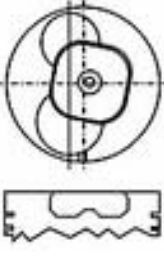
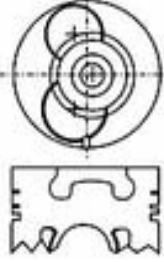
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4HF1 Elf ,NPR66 , 4334cc	110.0	6		8-94391-600-0 8-94391-601-0	8-94391-696-0	8-94394-613-0	8-97166-992-0 SDI-10177
Piston with ALFIN ,Oil Gallery,Skirt with MoS2 Coating & Tin plated. Liner: Fully Finished & Phosphated.				Length 210.0 O/D 113.0 Flange Dia. 119.7 Flange Height 5.6+0.4	Length 110.0 Comp. Height -22.6 Pin Dia. 40.0 Length 87.0		1st 3.0 K 2nd 2.0 3rd 1.2 Oil 3.0
4HF1 Elf ,NPR66 , 4334cc	112.0	4	5-87813-332-0	8-94389-276-3	8-97176-655-0		8-97028-691-0 R17863
Piston with ALFIN & Tin plated.Round Combustion Chamber 54mm Liner: Fully Finished & Phosphated.				Length 180.0 O/D 115.0 Flange Dia. 121.7 Flange Height 6.0	Length 94.5 Comp. Height 60.75 Pin Dia. 36.0 Length 79.0		1st 3.0 2nd 2.5 Oil 4.0
4HF1 Elf ,NPR66 , 4334cc	112.0	4	5-87813-336-0	8-97176-727-0	8-97119-325-0		
Piston with ALFIN & Tin plated.Round Combustion Chamber 49mm Liner: Fully Finished & Phosphated.				Length 180.0 O/D 115.0 Flange Dia. 121.7 Flange Height 6.0	Length 94.5 Comp. Height 60.75 Pin Dia. 36.0 Length 79.0		1st 2nd Oil
4HF1 Elf ,NPR66 , 4334cc	112.0	4		8-97144-174-0 8-97176-727-0	8-97095-585-1	1-12251-036-0	8-97028-691-0 R17863
Piston with ALFIN & Tin plated. Liner: Fully Finished & Phosphated.				Length 180.0 O/D 115.0 Flange Dia. 122.0 Flange Height 6.0	Length 94.5 Comp. Height -21.7 Pin Dia. 36.0 Length 79.0		1st 3.0 2nd 2.5 Oil 4.0

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4HF1 Elf ,NPR66 , 4334cc	112.0	4		8-97144-174-0 8-97176-727-0	8-97063-867-0 8-97095-654-0	1-12251-036-0	8-97028-691-0 R17863
Piston with ALFIN & Tin plated. Liner: Fully Finished & Phosphated.				Length 180.0 O/D 115.0 Flange Dia. 122.0 Flange Height 6.0	Length 94.5 Comp. Height -21.7 Pin Dia. 36.0 Length 79.0		1st 3.0 2nd 2.5 Oil 4.0
4HF1 New Elf ,NPR66 , 4334cc	112.0	4		8-97144-174-0 8-97176-727-0	5-87813-391-0 5-87813-391-1	1-12251-036-0	8-97109-462-0
Piston with ALFIN & Tin plated. Liner: Fully Finished & Phosphated.				Length 180.0 O/D 115.0 Flange Dia. 122.0 Flange Height 6.0	Length 94.5 Comp. Height -22.1 Pin Dia. 36.0 Length 79.0		1st 3.0 H 2nd 2.5 Oil 4.0
4HG1 Elf NPR ,4751cc	115.0	4		8-97351-558-0 8-97144-178-0		1-12251-036-0	8-97105-867-0 8-97129-054-0 R17915
Piston with ALFIN & Tin plated. Liner: Fully Finished & Phosphated.				Length 180.0 O/D 118.0 Flange Dia. 123.6 Flange Height 6.1	Length 104.4 Comp. Height -9.8 Pin Dia. 36.0 Length 79.0		1st 3.0 H 2nd 2.5 Oil 4.0
4HG1 4HG1T Elf NPR ,4751cc	115.0	4		8-97351-558-0 8-97144-178-0		1-12251-036-0	8-97105-867-0 8-97129-054-0 R17915
Piston with ALFIN , Oil Gallery & Tin plated. Liner: Fully Finished & Phosphated.				Length 180.0 O/D 118.0 Flange Dia. 123.6 Flange Height 6.1	Length 119.4 Comp. Height -22.5 Pin Dia. 36.0 Length 79.0		1st 3.0 H 2nd 2.5 Oil 4.0

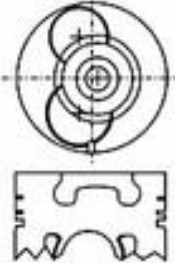
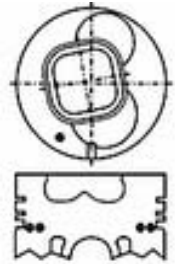
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6HH1 8226cc	115.0	6			8-94391-950-0		8-94390-799-0 8-94390-799-2 R17975
Piston with ALFIN & Tin plated. Liner: Fully Finished & Phosphated.				Length 180.0 O/D 118.0 Flange Dia. 123.7 Flange Height 6.0	Length 106.5 Comp. Height -22.6 Pin Dia. 36.0 Length 79.0		1st 3.5 2nd 2.5 Oil 4.0
6HH1 6HH1T 8226cc	115.0	6	1-87811-434-1	8-94391-273-1	8-94391-598-0		8-94390-799-0 8-94390-799-2 R17975
Piston with ALFIN, Oil Gallery & Tin plated.Round Combustion Chamber 57mm Liner: Fully Finished & Phosphated.				Length 210.0 O/D 118.0 Flange Dia. 123.7 Flange Height 6.0	Length 106.3 Comp. Height -22.5 Pin Dia. 36.0 Length 79.0		1st 3.5 2nd 2.5 Oil 4.0
4JA1 KBD23,28 TFR54,TFS54 2499cc	93.0	4	5-87813-169-0 5-87810-717-0	8-97176-693-0 8-94462-130-0	8-94369-281-0 8-97176-598-0	8-94247-968-0 8-94419-455-0	8-94247-867-1 R17490
Piston with Tin plated. Rectangle Combustion Chamber 44mm Liner: Chromed.				Length 156.3 (156.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 87.9 Comp. Height -14.7 Pin Dia. 31.0 Length 76.0		1st 2.0 2nd 2.0 Oil 4.0
4JA1 New KBD23,28 TFR54,TFS54 2499cc	93.0	4	5-87813-173-0	8-97176-693-0 8-94462-130-0	8-97089-892-0	8-94247-968-0 8-94419-455-0	8-94247-867-1 R17490
Piston with Al-Fin & Tin plated.Round Combustion Chamber 44mm Liner: Chromed.				Length 156.3 (156.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 87.8 Comp. Height -17.4 Pin Dia. 31.0 Length 76.0		1st 2.0 2nd 2.0 Oil 4.0

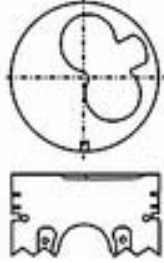
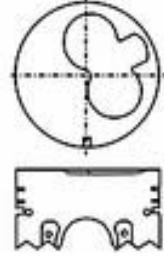
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4JB1 Elf150 , 2771cc	93.0	4	5-87813-185-0 5-87810-628-0	8-97176-685-0 8-94247-861-2	8-97176-608-0 8-94445-718-0	8-94247-968-0 8-94419-455-0	8-94247-867-1 R17490
Piston with Al-Fin & Tin plated. Rectangle Combustion Chamber 51mm Liner: Chromed.				Length 181.0 (181.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 91.8 Comp. Height -14.5 Pin Dia. 31.0 Length 76.0		1st 2.0 2nd 2.0 Oil 4.0
4JB1 Elf150 , 2771cc	93.0	4	5-87811-377-0 5-87810-627-0	8-97176-685-0 8-94247-861-2	8-97176-604-0 8-94433-177-0	8-94247-968-0 8-94419-455-0	8-94247-867-1 R17490
Piston with Al-Fin & Tin plated. Rectangle Combustion Chamber 48mm Liner: Chromed.				Length 181.0 (181.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 91.84 Comp. Height 51.84 Pin Dia. 31.0 Length 76.0		1st 2.0 2nd 2.0 Oil 4.0
4JB1 New Elf150 , 2771cc	93.0	4	5-87813-182-0 5-87810-278-2	8-97176-685-0 8-94247-861-2	8-97176-606-0 8-94152-711-0	8-94247-968-0 8-94419-455-0	8-94247-867-1 R17490
Piston with Al-Fin & Tin plated. Round Combustion Chamber 44mm Liner: Chromed.				Length 181.0 (181.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 91.8 Comp. Height -19.0 Pin Dia. 31.0 Length 76.0		1st 2.0 2nd 2.0 Oil 4.0
4JB1 T Elf150 , 2771cc	93.0	4	5-87810-636-0 5-87813-189-0	8-97176-685-0 8-94247-861-2	8-94340-620-0 8-97176-602-0	8-84457-158-0	8-94247-867-1 R17490
Piston with Al-Fin & Tin plated. Rectangle Combustion Chamber 51mm Liner: Chromed.				Length 181.0 (181.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 92.0 Comp. Height -13.8 Pin Dia. 34.0 Length 78.0		1st 2.0 2nd 2.0 Oil 4.0

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4JB1T Elf150 , 2771cc	93.0	4	5-87813-194-0	8-97176-685-0 8-94247-861-2	8-97176-610-0	8-84457-158-0	8-94247-867-1 R17490
Piston with Al-Fin & Tin plated.Round Combustion Chamber 43mm Liner: Chromed.				Length 181.0 (181.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 91.84 Comp. Height 51.84 Pin Dia. 34.0 Length 78.0		1st 2.0 2nd 2.0 Oil 4.0
4JB1T New Elf150 , 2771cc	93.0	4		8-94247-861-0 8-94247-861-2	8-94460-887-1 8-97108-621-0	8-84457-158-0	8-94247-867-1 R17490
Piston with Al-Fin & Tin plated. Liner: Chromed.				Length 181.0 (181.0) O/D 98.0 (95.0) Flange Dia. 102.0 (101.0) Flange Height 4.0 (0.9) (Chromed)	Length 92.0 Comp. Height -19.3 Pin Dia. 34.0 Length 78.0		1st 2.0 2nd 2.0 Oil 4.0
4JC1 2771cc	88.0	4		5-11261-015-0 5-11261-015-2 8-94169-883-1	8-94460-887-1 8-97108-621-0	8-94247-968-0 8-94419-455-0	8-94253-736-0 R17380
Piston with Al-Fin & Tin plated. Liner: Chromed.				Length 163.0 O/D 90.0 Flange Dia. 95.0 Flange Height 0.9	Length 87.7 Comp. Height -14.2 Pin Dia. 31.0 Length 71.0		1st 2.0 2nd 2.0 Oil 4.0
4JC1 2771cc	88.0	4			8-94152-472-2		
Piston: Liner: Chromed.				Length O/D Flange Dia. Flange Height	Length Comp. Height Pin Dia. Length		1st 2nd Oil

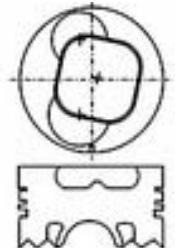
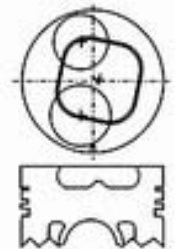
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4JG1 2771cc	95.4	4			8-97176-616-0		
Piston: Liner:				Length O/D Flange Dia. Flange Height	Length 89.24 Comp. Height 49.24 Pin Dia. 34.0 Length 78.0		1st 2nd Oil
4JG2 TC-1C O-UBS69GW 3059cc	95.5	4		8-97176-702-0 8-94456-791-0	8-97073-647-1	8-94457-158-0	8-97080-215-0 R17211
Piston with Al-Fin & Tin plated. Liner: Chromed.				Length 181.5 (178.6) O/D 100.0 (97.0) Flange Dia. 103.3 (102.3) Flange Height 4.0 (1.1) (Chromed)	Length 89.2 Comp. Height -2.6 Pin Dia. 34.0 Length 78.0		1st 2.5 2nd 2.0 Oil 4.0
4JG2 TC-1C O-UBS69GW 3059cc	95.5	4	5-87813-213-0	8-97176-701-0 8-94456-791-0	8-97176-622-0	8-94457-158-0	8-97080-215-0 R17211
Piston with Al-Fin & Tin plated. Liner: Chromed.				Length 181.5 (178.6) O/D 100.0 (97.0) Flange Dia. 103.3 (102.3) Flange Height 4.0 (1.1) (Chromed)	Length 89.24 Comp. Height 49.24 Pin Dia. 34.0 Length 78.0		1st 2.5 2nd 2.0 Oil 4.0
4JG2T TC-1C O-UBS69GW 3059cc	95.5	4		8-97176-701-0 8-94456-791-0	8-97176-620-0 8-97176-621-0	8-94457-158-0	8-97080-215-0 R17211
Piston with Al-Fin, Oil Gallery, Head Anodized & Tin plated. Liner: Chromed.				Length 181.5 (178.6) O/D 100.0 (97.0) Flange Dia. 103.3 (102.3) Flange Height 4.0 (1.1) (Chromed)	Length 89.1 Comp. Height -2.7 Pin Dia. 34.0 Length 78.0		1st 2.5 2nd 2.0 Oil 4.0




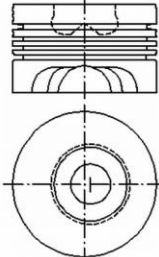
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
4JG2T New TC-1C O-UBS69GW 3059cc	95.5	4	5-87813-222-1	8-97176-701-0 8-94456-791-0	8-97176-624-0 8-97176-624-1 8-97176-625-0 8-97176-625-1	8-94457-158-0	8-97080-215-0 R17211
Piston with Al-Fin,Oil Gallery, Head Anodized & Tin plated. Liner: Chromed.				Length 181.5 (178.6) O/D 100.0 (97.0) Flange Dia. 103.3 (102.3) Flange Height 4.0 (1.1) (Chromed)	Length 89.32 Comp. Height 49.35 -1.51 Pin Dia. 34.0 Length 78.0		1st 2.5 2nd 2.0 Oil 4.0
4JH1-TC 2999cc	95.4	4		8-97176-702-0	8-97305-586-1		8-97941-122-0 8-97259-941-0 SDI-10193
Piston with Al-Fin,Oil Gallery & Tin plated. Liner: Chromed.				Length 181.5 (178.6) O/D 100.0 (97.0) Flange Dia. 103.3 (102.3) Flange Height 4.0 (1.1) (Chromed)	Length 88.9 Comp. Height 49.9 -20.0 Pin Dia. 31.0 Length 76.0		1st 2.5 2nd 2.0 Oil 3.0
4JH1-TC New 2999cc	95.4	4		8-97176-702-0			8-97941-122-0 8-97259-941-0 SDI-10193
Piston with Al-Fin,Oil Gallery & Tin plated. Liner: Chromed.				Length 181.5 (178.6) O/D 100.0 (97.0) Flange Dia. 103.3 (102.3) Flange Height 4.0 (1.1) (Chromed)	Length 89.0 Comp. Height 50.0 -8.0 -1.0 a Pin Dia. 31.0 Length 76.0		1st 2.5 2nd 2.0 Oil 3.0
4JX1 2999cc	95.4	4			8-97182-768-1	8-94247-968-0 8-94419-455-0	8-97941-122-0 8-97259-941-0 SDI-10193
Piston with Al-Fin,Oil Gallery, Head Anodized,Skirt with MoS2 Coatin & Tin plated. Liner: Semi-Finished,No flange.				Length 177.0 (180.0) O/D 99.4 (99.4) Flange Dia. 103.4 Flange Height 4.0	Length 101.7 Comp. Height 50.0 -9.7 Pin Dia. 31.0 Length 75.9		1st 2.5 2nd 2.0 Oil 3.0

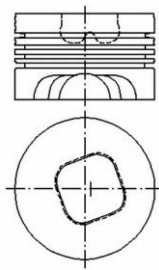
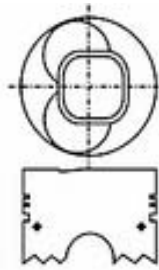
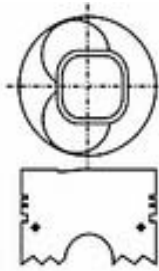
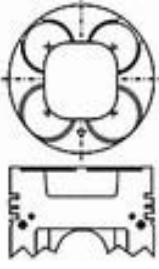
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
3KR2	81.0	3			8-97176-890-0		
Piston: Liner:				Length O/D Flange Dia. Flange Height	Length Comp. Height Pin Dia. Length		1st 2nd Oil
3LD1	83.0	3			8-97176-887-0		
Piston: Liner:				Length O/D Flange Dia. Flange Height	Length Comp. Height Pin Dia. Length		1st 2nd Oil
8PA1 10PA1 12PA1	115.0	V8 V10 V12	1-87810-307-3	1-11261-063-0 1-11261-155-0	1-12111-154-1 1-12111-788-0	1-12251-001-0	1-12121-042-0 1-12181-016-0 1-12181-060-0 R17060
SKS390,SKW520(8PA1) 9971cc , SRZ440,CRA650(10PA1) 12464cc , VTR300,VRZ440,VTR290(12PA1) 14957cc				Length 219.5 O/D 130.0 Flange Dia. 141.7 Flange Height 10.0+1.2	Length 113.3 Comp. Height 75.3 -24.1 Pin Dia. 38.0 Length 80.0		1st 3.0 2nd 2.5 Oil 6.0
Piston with Al-Fin & Tin plated.Rectangle Combustion Chamber 60mm Liner: Fully Finished							
8PB1 10PB1 12PB1	115.0	V8 V10 V12	1-87810-190-4	1-11261-063-0 1-11261-155-0	1-12111-794-1 1-12111-217-1	1-12251-011-0	1-12181-061-0/cyl. 1-12181-069-0/cyl. R17110
Truck SMR,SMK,CSA,SSZ,VSR,VSZ,VVE,VVZ (8PB1) 11217cc , (10PB1) 14022cc , (12PB1) 16826cc				Length 219.5 O/D 130.0 Flange Dia. 141.7 Flange Height 10.0+1.2	Length 104.0 Comp. Height 67.8 -23.4 Pin Dia. 38.0 Length 78.0		1st 3.0 2nd 2.5 Oil 4.0
Piston with Al-Fin & Tin plated.Rectangle Combustion Chamber 61mm Liner: Fully Finished							

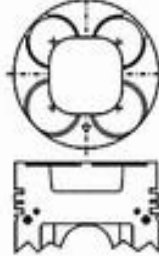
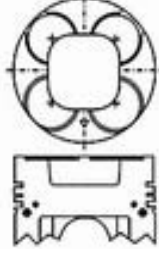
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
8PC1 10PC1 12PC1 (8PC1) 12010cc , CXR 10.75ton(10PC1) 15014cc , (12PC1) 18017cc	119.0	V8 V10 V12	1-87810-424-3 1-87810-324-4	1-11261-076-0	1-12111-798-0 1-12111-282-3	1-12251-001-0	1-12121-047-0 1-12121-048-0 R17500
Piston with Al-Fin & Tin plated. Rectangle Combustion Chamber 58mm Liner: Fully Finished				Length 219.5 O/D 133.0 Flange Dia. 143.7 Flange Height 10.0+1.0	Length 104.0 Comp. Height -23.7 Pin Dia. 38.0 Length 80.0		1st 3.0 2nd 2.5 Oil 4.0
8PC1T 10PC1T 12PC1T CXM 10.75ton (8PC1-T) 12010cc , Hi-Decker (10PC1-T) 15014cc , (12PC1-T) 18017cc	119.0	8 10 12	1-87811-672-0 1-87810-549-3	1-11261-143-1	1-12111-419-2 1-12111-800-0	1-12251-011-0	1-12121-062-0/cyl. 1-12121-063-0/cyl. R17501
Piston with Al-Fin & Tin plated. Rectangle Combustion Chamber 58mm Liner: Fully Finished				Length 219.5 O/D 133.0 Flange Dia. 143.7 Flange Height 10.0+1.0	Length 104.0 Comp. Height -23.4 Pin Dia. 38.0 Length 80.0		1st 4.0 2nd 2.5 Oil 4.0
8PD1 10PD1 12PD1 (8PD1) 13741cc , (10PD1) 16683cc , (12PD1) 20019cc	119.0	8 10 12	1-87810-781-2 1-87811-390-0	1-11261-161-1	1-12111-549-3 1-12111-806-0	1-12251-011-0	1-12121-062-0/cyl. 1-12121-063-0/cyl. R17501
Piston with Al-Fin & Tin plated. Rectangle Combustion Chamber 54mm Liner: Fully Finished & Water Jacket Chromed				Length 234.25 O/D 133.0 Flange Dia. 143.7 Flange Height 10.0+1.0	Length 106.6 Comp. Height -25.0 Pin Dia. 43.0 Length 80.0		1st 4.0 2nd 2.5 Oil 4.0
10PE1	127.0	10	1-87811-807-0	1-11261-286-0	1-12111-676-0		
Piston Liner:				Length 233.0 O/D 130.5 Flange Dia. 136.5 Flange Height 6.0	Length 106.55 Comp. Height 67.68 Pin Dia. 43.0 Length 80.0		1st 3.8K 2nd 3.0 3rd 3.0 Oil 4.0

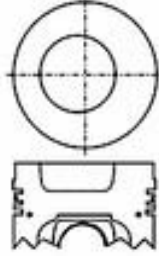
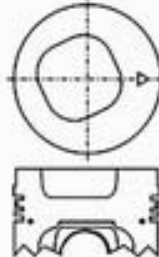
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
10PE1	127.0	10	1-87811-184-0	1-11261-175-1	1-12111-813-0 1-12111-678-0		
Piston Liner:				Length 233.0 O/D 130.5 Flange Dia. 136.5 Flange Height 6.0	Length 106.55 Comp. Height 67.68 Pin Dia. 43.0 Length 80.0		1st 3.8K 2nd 3.0 3rd 3.0 Oil 4.0
6QA1	125.0	6	1-87810-378-0	1-11261-074-0 1-11261-061-1	1-12111-388-1	9-12251-073-0 9-12251-074-1	1-12121-028 1-12121-046 R17190
Truck Bus TDJ50,TDJ72,TDJ78,CVR14,SJR361,DJR530,CJM470 , 11044cc							
Piston with Al-Fin & Tin plated. Rectangle Combustion Chamber 65mm Liner: Fully Finished ,Chromed & Water Jacket Chromed				Length 282.0 O/D 140.0 Flange Dia. 146.7 Flange Height 11.0+2.0	Length 136.0 Comp. Height -25.6 -1.1 -1.0 Pin Dia. 46.0 Length 106.0		1st 3.0 2nd 2.5 Oil 6.0
6QA1 New	125.0	6		1-11261-160-0		9-12251-073-0 9-12251-074-1	1-12121-028 1-12121-046 R17190
TDJ50,TDJ72,TDJ78,CVR14,SJR361,DJR530,CJM470 , 11044cc							
Piston with Al-Fin & Tin plated. Liner: Fully Finished ,Phosphated & Water Jacket Chromed				Length 257.0 O/D 140.0 Flange Dia. 146.7 Flange Height 11.0+2.0	Length 136.0 Comp. Height -25.6 -1.1 -1.0 Pin Dia. 46.0 Length 106.0		1st 3.0 2nd 2.5 Oil 6.0
6RA1	135.0	6		1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-461-0	9-12251-088-0	1-12121-037-0 1-12121-040-0 R17230
SHM CXM 10.5ton , 12023cc							
Piston with Al-Fin & Tin plated. Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 150.2 Comp. Height -26.0 Pin Dia. 50.0 Length 104.0		1st 4.0 2nd 2.5 Oil 5.0

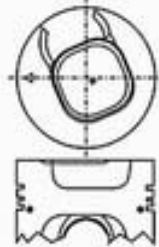
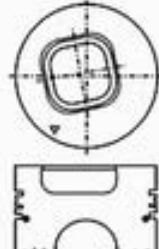
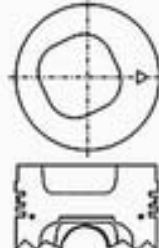
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6RA1T	135.0	6	1-87811-415-0	1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-481-0 1-12111-482-0	9-12251-088-0	1-12121-037-0 1-12121-040-0 R17230
Truck SHM CXM 10.5ton , 12023cc							
Piston with Al-Fin & Tin plated.Rectangle Combustion Chamber 67mm Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 150.2 Comp. Height -27.0 Pin Dia. 50.0 Length 104.0		1st 4.0 2nd 2.5 Oil 5.0
6RB1	135.0	6		1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-481-0 1-12111-482-0	9-12251-088-0	1-12121-037-0 1-12121-040-0 R17230
SBM CXM 10.5ton , 13741cc							
Piston with Al-Fin & Tin plated. Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 143.1 Comp. Height -27.7 Pin Dia. 50.0 Length 105.0		1st 4.0 2nd 2.5 Oil 5.0
6RB1	135.0	6	1-87811-391-1	1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-820-0 1-12111-560-2	9-12251-088-0	1-12121-037-0 1-12121-040-0 R17230
Truck SBM CXM 10.5ton , 13741cc							
Piston with Al-Fin & Tin plated.Rectangle Combustion Chamber 69mm Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 143.2 Comp. Height 82.2 Pin Dia. 50.0 Length 105.0		1st 4.0 2nd 2.5 Oil 5.0
6RB1	135.0	6	1-87811-462-0 1-87810-133-0	1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-873-0 1-12111-437-1	9-12251-088-0	1-12121-037-0 1-12121-040-0 R17230
Truck SBM CXM 10.5ton , 13741cc							
Piston with Al-Fin & Tin plated.Rectangle Combustion Chamber 69mm Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 143.2 Comp. Height 82.2 Pin Dia. 50.0 Length 105.0		1st 4.0 2nd 2.5 Oil 5.0

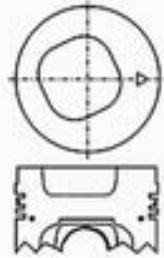
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6RB1T	135.0	6		1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-516-0	1-12251-025-0	1-12121-073-0 SDI10-117ZZ
CXM 10.5ton L320PS , 13741cc							
Piston with Al-Fin ,Oil Gallery & Tin plated. Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 137.1 Comp. Height -25.7 Pin Dia. 52.0 Length 105.0		1st 4.0 2nd 2.5 Oil 4.0
6RB1T	135.0	6	1-87811-586-0	1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-821-0 1-12111-632-0	1-12251-025-0	1-12121-073-0 SDI10-117ZZ
CXM 10.5ton L320PS , 13741cc							
Piston with Al-Fin ,Oil Gallery & Tin plated.Round Combustion Chamber 78mm Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 137.2 Comp. Height 82.2 Pin Dia. 52.0 Length 105.0		1st 4.0 2nd 2.5 Oil 4.0
6RB1T C	135.0	6	1-87811-237-0	1-11261-082-0 1-11261-098-0 1-11261-133-0 1-11261-105-1	1-12111-708-0 1-12111-648-0	1-12251-025-0	1-12121-073-0 SDI10-117ZZ
CXM 10.5ton L320PS , 13741cc							
Piston with Al-Fin ,Oil Gallery & Tin plated.Round Combustion Chamber 78mm Liner: Fully Finished ,Phosphated .				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 137.15 Comp. Height 82.15 Pin Dia. 52.0 Length 105.0		1st 4.0 2nd 2.5 Oil 4.0
6SA1	115.0	6		1-11261-065-3 1-11261-094-1	1-12111-217-1	1-12251-016-0 1-12251-016-2	1-12121-070-0 1-12121-075-0 1-12121-113-0 1-12121-750-0
Forward 200PS , 8413cc							
Piston with Al-Fin & Tin plated. Liner: Fully Finished ,Outer Diameter with copper plated.				Length 216.0 O/D 119.0 Flange Dia. 126.0 Flange Height 6.0	Length 104.0 Comp. Height -22.7 Pin Dia. 38.0 Length 80.0		1st 3.0 2nd 2.5 Oil 4.0

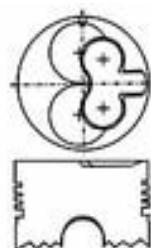
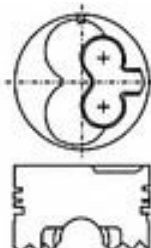
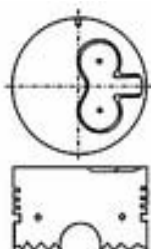
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6SA1 Forward 200PS , 8413cc	115.0	6	1-87810-384-1	1-11261-094-1	1-12111-826-0 1-12111-424-1	1-12251-016-0 1-12251-016-2	1-12121-070-0 1-12121-075-0 1-12121-113-0 R17005
Piston with Al-Fin & Tin plated.Rectangle Combustion Chamber 61mm Liner: Fully Finished ,Outer Diameter with copper plated.				Length 216.0 O/D 119.0 Flange Dia. 125.7 Flange Height 6.0	Length 104.0 Comp. Height -22.7 Pin Dia. 38.0 Length 80.0		1st 3.0 2nd 2.5 Oil 4.0
6SA1T Forward 200PS , 8413cc	115.0	6	1-87810-469-2 1-87810-469-3	1-11261-094-1	1-12111-459-1 1-12111-828-0	1-12251-016-0 1-12251-016-2	1-12121-070-0 1-12121-075-0 1-12121-113-0 R17005
Piston with Al-Fin ,Oil Gallery & Tin plated.Rectangle Combustion Chamber 61mm Liner: Fully Finished ,Outer Diameter with copper plated.				Length 216.0 O/D 119.0 Flange Dia. 126.0 Flange Height 6.0	Length 104.2 Comp. Height -23.2 Pin Dia. 38.0 Length 80.0		1st 3.0 2nd 2.5 Oil 4.0
6SD1 Forward CXG23 , 9839cc	120.0	6		1-11261-106-2	1-12111-569-0	1-12251-021-0 1-12251-021-1	1-12121-094-1 R17660
Piston with Al-Fin & Tin plated. Liner: Fully Finished .				Length 239.0 O/D 123.0 Flange Dia. 129.6 Flange Height 6.0+1.0	Length 117.0 Comp. Height -24.7 Pin Dia. 43.0 Length 89.5		1st 3.5 2nd 2.5 Oil 5.0
6SD1 Forward CXG23 , 9839cc	120.0	6	1-87810-712-1 1-87811-602-0	1-11261-106-2	1-12111-591-0 1-12111-710-0	1-12251-021-0 1-12251-021-1	1-12121-094-1 R17660
Piston with Al-Fin ,Oil Gallery & Tin plated.Rectangle Combustion Chamber 60mm Liner: Fully Finished ,Phosphated .				Length 239.0 O/D 123.0 Flange Dia. 129.6 Flange Height 6.0+1.0	Length 117.0 Comp. Height -24.7 Pin Dia. 43.0 Length 89.5		1st 3.5 2nd 2.5 Oil 5.0

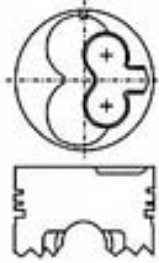
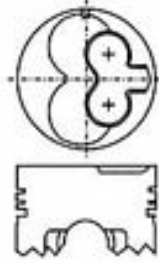
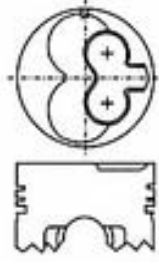
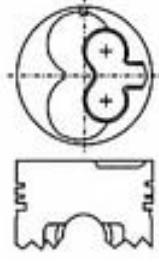
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6SD1T Forward CXG23 , 9839cc	120.0	6	1-87810-384-0 1-87810-667-0	1-11261-106-2	1-12111-838-0 1-12111-555-1	1-12251-021-0 1-12251-021-1	1-12121-094-1 R17660
Piston with Al-Fin ,Oil Gallery & Tin plated.Rectangle Combustion Chamber 66mm Liner: Fully Finished ,Phosphated .				Length 239.0 O/D 123.0 Flange Dia. 129.6 Flange Height 6.0+1.0	Length 117.0 Comp. Height 75.0 -24.7 Pin Dia. 43.0 Length 89.5		1st 3.5 2nd 2.5 Oil 5.0
6SD1TC Forward CXG23 , 9839cc	120.0	6			1-12111-842-0		1-12121-119-2 R17655
Piston :Round Combustion Chamber 56mm Liner:				Length O/D Flange Dia. Flange Height	Length 127.5 Comp. Height 75.0 - Pin Dia. 43.0 Length 89.5		1st 4.0 2nd 3.0 3rd 3.0 Oil 4.0
6WA1	132.9	6	1-87811-839-2	1-11261-362-0			
Piston : Round Combustion Chamber 70mm Liner:				Length 266.0 O/D 137.0 Flange Dia. 143.7 Flange Height 6.0	Length 143.0 Comp. Height 93.0 Pin Dia. 56.0 Length 105.0		1st 2nd Oil
6WA1T	132.9	6	1-87811-839-2				
Piston : Round Combustion Chamber 79mm Liner:				Length O/D Flange Dia. Flange Height	Length 143.0 Comp. Height 93.0 Pin Dia. 56.0 Length 105.0		1st 2nd Oil

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
6WG1	147.0	6					
GIGA Aero Tractor 15681cc							
Piston : Round Combustion Chamber 86mm Liner:				Length 267.0 O/D 151.5 Flange Dia. 158.5 Flange Height 6.0	Length 142.5 Comp. Height 88.0 Pin Dia. 56.0 Length 105.0		1st 2nd Oil
C190 (4G)	86.0	4	5-87813-236-0 5-87810-148-1	8-97176-661-0 9-11261-224-1	5-12111-119-0 5-12111-137-0 5-12111-202-0 5-12111-203-0	9-12251-062-0	5-12121-007-0 5-12181-027-0 5-12181-028-0 9-12181-603-0 R17250
Piston with Tin plated. Liner: Chromed .				Length 163.0 (163.3) O/D 90.1 (88.0) Flange Dia. 94.0 (94.0) Flange Height 4.0 (0.9) (Chromed)	Length 95.5 Comp. Height -3.0 Pin Dia. 27.0 Length 72.2		1st 2.0 2nd 2.0 3rd 2.0 Oil 5.0
C190 (3G)	86.0	4	5-87810-183-2	9-11261-224-0 9-11261-224-1	5-12111-225-0 5-12111-226-0	9-12251-005-0	5-12121-021-0 8-94104-949-0 R17390
Elf 150 , 1951cc							
Piston with Tin plated. Liner: Chromed .				Length 163.0 (163.3) O/D 90.1 (88.0) Flange Dia. 94.0 (94.0) Flange Height 4.0 (0.9) (Chromed)	Length 96.7 Comp. Height -1.9 Pin Dia. 27.0 Length 68.0		1st 2.5 2nd 2.0 Oil 5.0
C221	83.0	4	5-87813-260-0 5-87810-060-1	8-97176-669-0 9-11261-253-1	5-12111-065-0 8-97176-868-0	9-12251-061-0	5-12121-013-0 5-12121-014-0 5-12181-015-0 R17861
Elf TLD12 TLD22 TLD22V TLD22W TLD22VF TLD32 TLD 52 TLD62 , BLD22 , 2207cc							
Piston with Tin plated. Liner: Chromed .				Length 174.5 O/D 86.0 Flange Dia. 92.0 Flange Height 1.4	Length 95.5 Comp. Height -3.0 Pin Dia. 25.0 Length 72.5		1st 2.0 2nd 2.0 3rd 2.0 1st Oil 5.0 2nd Oil 5.0

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
C223 early type 117 Coupe, Rodeo , Bighorn , 2238cc	88.0	4		5-11261-015-0 5-11261-015-2 8-94169-883-1	5-12111-212-0	5-12251-005-0 5-12251-007-0	5-12121-017-0 5-12121-024-0 R17400
Piston with Tin plated. Liner: Chromed .				Length 163.0 O/D 90.0 Flange Dia. 95.0 Flange Height 0.9	Length 90.0 Comp. Height 47.5 -2.3 Pin Dia. 27.0 Length 68.2		1st 2.5 2nd 2.0 Oil 4.5
C223 New Rodeo TFR52 Bighorn TFS52,KRD22 2238cc	88.0	4	5-87813-244-0 5-87810-239-1	8-97176-677-0 5-11261-015-2	8-94250-729-0 8-97176-592-0	5-12251-005-0 5-12251-007-0	8-94253-736-0 R17380
Piston with Tin plated. Liner: Chromed .				Length 164.0 (163.0) O/D 92.2 (90.0) Flange Dia. 96.0 (95.0) Flange Height 5.0 (0.9) (Chromed)	Length 82.4 Comp. Height 47.6 -2.6 Pin Dia. 27.0 Length 68.0		1st 2.0 2nd 2.0 Oil 4.0
C223T Faster , Hi pack van , 2238cc	88.0	4		5-11261-015-0 5-11261-015-2 8-94169-883-1	8-94418-826-0	8-94118-825-0	8-94158-084-0 R17970
Piston with Al-Fin & Tin plated. Liner: Chromed .				Length 163.0 O/D 90.0 Flange Dia. 95.0 Flange Height 0.9	Length 82.6 Comp. Height 47.6 -1.8 Pin Dia. 29.0 Length 68.0		1st 2.5 2nd 2.0 Oil 4.0
C223T Faster , Hi pack van , 2238cc	88.0	4		5-11261-015-0 5-11261-015-2 8-94169-883-1	8-94468-507-0	8-94118-825-0	8-94468-521-0 SDI10-119ZZ
Piston with Al-Fin & Tin plated. Liner: Chromed .				Length 163.0 O/D 90.0 Flange Dia. 95.0 Flange Height 0.9	Length 82.6 Comp. Height 47.6 -1.8 Pin Dia. 29.0 Length 68.0		1st 2.5 H 2nd 2.0 Oil 4.0

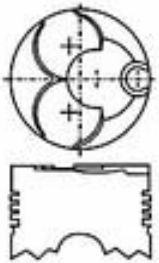
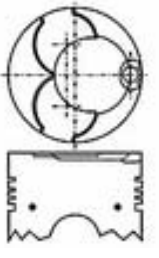
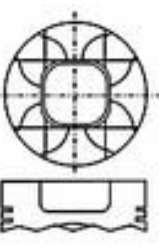
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
C223T New	88.0	4		5-11261-015-0 5-11261-015-2 8-94169-883-1	8-94250-181-0	8-94118-825-0	8-94158-084-0 R17970
Faster , Hi pack van , 2238cc							
Piston with Al-Fin,Oil Gallery & Tin plated. Liner: Chromed .				Length 163.0 O/D 90.0 Flange Dia. 95.0 Flange Height 0.9	Length 82.8 Comp. Height -1.7 Pin Dia. 29.0 Length 68.0		1st 2.5 2nd 2.0 Oil 4.0
C240 (4G) early type	86.0	4	5-87813-248-0 5-87810-085-2	9-11261-230-0 9-11261-230-1	5-12111-064-0 9-12111-813-0 5-12411-064-0	9-12251-062-0	5-12121-007-0 5-12181-027-0 5-12181-028-0 9-12181-603-0 R17250
Elf TLD13.23.23Z TLD43.53.63 KUD20.20VF , 2369cc							
Piston with Tin plated. Liner: Chromed .				Length 178.0 O/D 90.1 Flange Dia. 94.0 Flange Height 4.0	Length 95.5 Comp. Height -3.0 Pin Dia. 27.0 Length 72.0		1st 2.0 2nd 2.0 3rd 2.0 Oil 5.0
C240 (4G)	86.0	4		9-11261-230-0 9-11261-230-1	5-12111-119-0 5-12111-137-0 5-12111-202-0 5-12111-203-0	9-12251-062-0	5-12121-007-0 5-12181-027-0 5-12181-028-0 9-12181-603-0 R17250
E lf TLD13.23.23Z TLD43.53.63 KUD20.20VF , 2369cc							
Piston with Tin plated. Liner: Chromed .				Length 178.0 O/D 90.1 Flange Dia. 94.0 Flange Height 4.0	Length 95.5 Comp. Height -3.0 Pin Dia. 27.0 Length 72.0		1st 2.0 2nd 2.0 3rd 2.0 Oil 5.0
C240 (3G)	86.0	4	5-87813-256-0 5-87810-209-2	8-97176-898-0 9-11261-230-1	5-12111-225-1 8-97176-584-0	5-12251-005-0	5-12121-021-0 8-94104-949-0 R17390
Elf TLD13.23.23Z TLD43.53.63 KUD20.20VF , 2369cc							
Piston with Tin plated. Liner: Chromed .				Length 178.0 (178.5) O/D 90.1 (88.0) Flange Dia. (94.0) Flange Height 4.0 (0.9) (Chromed)	Length 96.7 Comp. Height -1.9 Pin Dia. 27.0 Length 68.0		1st 2.5 2nd 2.0 Oil 5.0

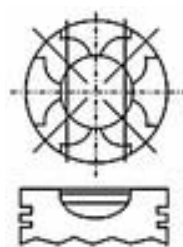
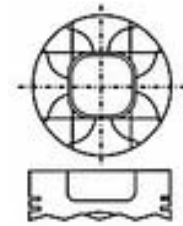
Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
C240 (3G) New Elf TLD13.23.23Z TLD43.53.63 KUD20.20VF , 2369cc	86.0	4	5-87810-536-2 5-87813-280-0	9-11261-230-0 9-11261-230-1	8-94326-225-0 8-97176-864-0	5-12251-005-0	5-12121-021-0 8-94104-949-0 R17390
Piston with Tin plated. Liner: Chromed .				Length 178.0 (178.5) O/D 90.1 (88.0) Flange Dia. 94.0 (94.0) Flange Height 4.0 (0.9) (Chromed)	Length 84.5 Comp. Height -2.5 Pin Dia. 27.0 Length 68.0		1st 2.5 2nd 2.0 Oil 5.0
DA120 (4G) Bus BA341P.343.351.BA541.543.551.BB341.351.551. BX352.531.552 For Industrial machine ,6126CC	100.0	6	9-88520-064-4	9-87692-095-0	1-12111-126-0 1-12111-864-0 9-12111-376-0 9-12111-901-0	9-12251-083-0	1-12181-128-0 1-12181-005-0 1-12181-036-0 1-12181-087-0 R17320
Piston with Tin plated. Liner: Fully Finished				Length 220.0 O/D 113.0 Flange Dia. 119.0 Flange Height 8.0	Length 125.0 Comp. Height -6.0 Pin Dia. 34.0 Length 83.5		1st 2.5 2nd 2.5 3rd 2.5 Oil 5.0
DA220 (4G) For Industrial Machine 4084CC	100.0	4	5-87813-316-0 9-88520-063-4	9-87692-095-0	1-12111-126-0 1-12111-864-0 9-12111-376-0 9-12111-901-0	9-12251-083-0	1-12181-128-0 1-12181-005-0 1-12181-036-0 1-12181-087-0 R17320
Piston with Tin plated. Liner: Fully Finished				Length 220.0 O/D 113.0 Flange Dia. 119.0 Flange Height 8.0	Length 125.0 Comp. Height -6.0 Pin Dia. 34.0 Length 83.5		1st 2.5 2nd 2.5 3rd 2.5 Oil 5.0
D500 Forward TR,BY 4978CC	98.0	6	1-87810-087-2	9-11261-257-0	9-12411-814-0	9-12251-083-0	5-12181-020-0 9-12181-608-0 R17560
Piston: Liner:				Length 206.5 O/D 101.0 Flange Dia. 108.0 Flange Height 1.4	Length 112.0 Comp. Height 62.4 Pin Dia. 33.0 Length 85.0		1st 3.0 2nd 2.5 Oil 5.0

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
DA640T	102.0	6	1-87811-611-0 1-87810-015-5 Bus BA741 BA741P BA743 BB751 BR10 BR10PBR20 BR20P BR351 BR351P BX721E BX731 BX752 , 6373cc	9-87692-096-0 9-11261-288-0	1-12111-858-0 1-12111-122-1 9-12111-740-0 9-12111-902-1		1-12181-110-0 1-12181-007-0 1-12181-033-0 1-12181-074-0 R17550
Piston with Tin plated. Liner: Fully Finished				Length 228.0 O/D 113.0 Flange Dia. 119.0 Flange Height 8.0	Length 125.0 Comp. Height -6.3 Pin Dia. 36.0 Length 86.5		1st 2.5 2nd 2.5 3rd 2.5 Oil 5.0
DH100	120.0	6	1-87811-608-0 1-87810-028-3 Truck TD70E TD80E TD90E TD141 TP70E TP81 TP81E TP91E Bus BC30 BC141 BC151 BC151P BC161 BU05 BU10 BU15 BU20 10179cc	9-11261-241-0 9-11261-270-0	9-12111-742-0 1-12111-862-0	9-12251-069-0 9-12251-070-0	1-12121-016-0 1-12181-001-0 9-12181-083-0 9-12181-086-0 R17810
Piston with Tin plated. Liner: Fully Finished				Length 280.0 O/D 135.0 Flange Dia. 140.6 Flange Height 11.0	Length 150.8 Comp. Height -8.3 Pin Dia. 45.0 Length 97.5		1st 3.0 2nd 3.0 3rd 3.0 Oil 6.0
E120	135.0	6	Truck VPR290 TDK46 SPM701 Bus 30KP 35KP BU4K 12023cc	9-11261-290-0	9-12111-742-0 9-12111-849-1	9-12251-088-0	1-12121-015-0 1-12121-034-0 1-12181-022-0 1-12181-024-0 R17050
Piston : With Al-Fin & Tin plated. Liner : O.D. with copper plated & Fully Finished.				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 150.5 Comp. Height -26.7 Pin Dia. 50.0 Length 105.0		1st 4.0 2nd 2.5 Oil 7.0
E120	135.0	6	Truck VPR290 TDK46 SPM701 Bus 30KP 35KP BU4K 12023cc	9-11261-290-0	1-12111-818-0 1-12111-523-0	9-12251-088-0	1-12121-015-0 1-12121-034-0 1-12181-022-0 1-12181-024-0 R17050
Piston : With Al-Fin & Tin plated. Rectangle Combustion Chamber 67mm Liner : O.D. with copper plated & Fully Finished.				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 150.2 Comp. Height 89.0 Pin Dia. 50.0 Length 105.0		1st 4.0 2nd 2.5 Oil 7.0

Liner Kit For ISUZU

Engine Code	Bore Size (m/m)	No of Cyl.	Liner Kit	Liner	Piston	Pin Bushing	Ring
E120	135.0	6		9-11261-290-0	1-12111-080-1 1-12111-080-2 1-12111-091-1 1-12111-243-0	9-12251-088-0	1-12121-015-0 1-12121-034-0 1-12181-022-0 1-12181-024-0 R17050
Truck VPR290 TDK46 SPM701 Bus 30KP 35KP BU4K 12023cc							
Piston : Tin plated. Liner : O.D. with copper plated & Fully Finished.				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 150.5 Comp. Height -33.3 Pin Dia. 50.0 Length 104.0		1st 4.0 2nd 2.5 Oil 7.0
E120T	135.0	6		9-11261-290-0	1-12111-209-2 1-12111-226-2	9-12251-088-0	1-12121-015-0 1-12121-034-0 1-12181-022-0 1-12181-024-0 R17050
Truck VPR290 TDK46 SPM701 Bus 30KP 35KP BU4K 12023cc							
Piston : Tin plated. Liner : O.D. with copper plated & Fully Finished.				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 150.3 Comp. Height -29.5 Pin Dia. 50.0 Length 105.0		1st 4.0K 2nd 2.5 Oil 7.0
E120T	135.0	6	1-87811-525-0 1-87810-517-0	9-11261-290-0	1-12111-817-2 1-12111-515-0	9-12251-088-0	9-12181-149-0 1-12121-023-0 9-12181-144-0 9-12181-144-1 R17890
Truck VPR290 TDK46 SPM701 Bus 30KP 35KP BU4K 12023cc							
Piston : Tin plated. Rectangle Combustion Chamber 66mm Liner : O.D. with copper plated & Fully Finished.				Length 264.0 O/D 141.0 Flange Dia. 146.7 Flange Height 6.0	Length 150.2 Comp. Height 89.0 Pin Dia. 50.0 Length 105.0		1st 4.0K 2nd 2.5 3rd 2.5 Oil 7.0



ENGIMAX INDUSTRIAL CORP.

#5, Lane 48, Tatung Road, Wufeng, Taichung, 41343 Taiwan R.O.C.

Tel: 886-4-2330-4735 Fax: 886-4-2330-7182

Email: john.mingyang@gmail.com

john.npic@gmail.com

<http://www.engimax.url.tw>