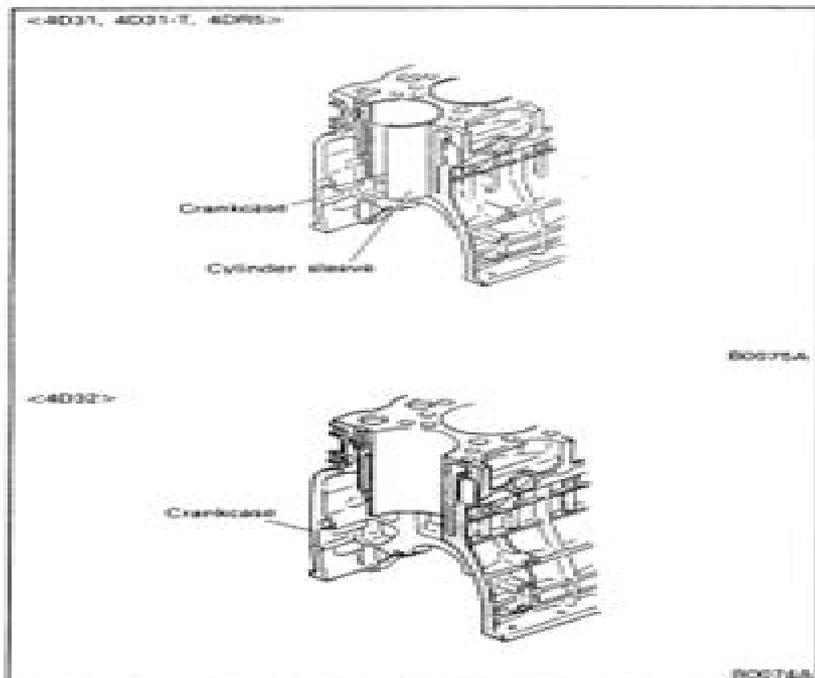


- (f) The tappet on the 4D3 is of cylindrical shape, while that on 4DR5 is mushroom-shape. Its mating surface with the camshaft is a large-diameter sphere to prevent local wear.
- (g) The camshaft is provided with an oil pump drive gear, with its journals, cams, and gear induction-hardened.

The cam on 4D3 is a taper cam.

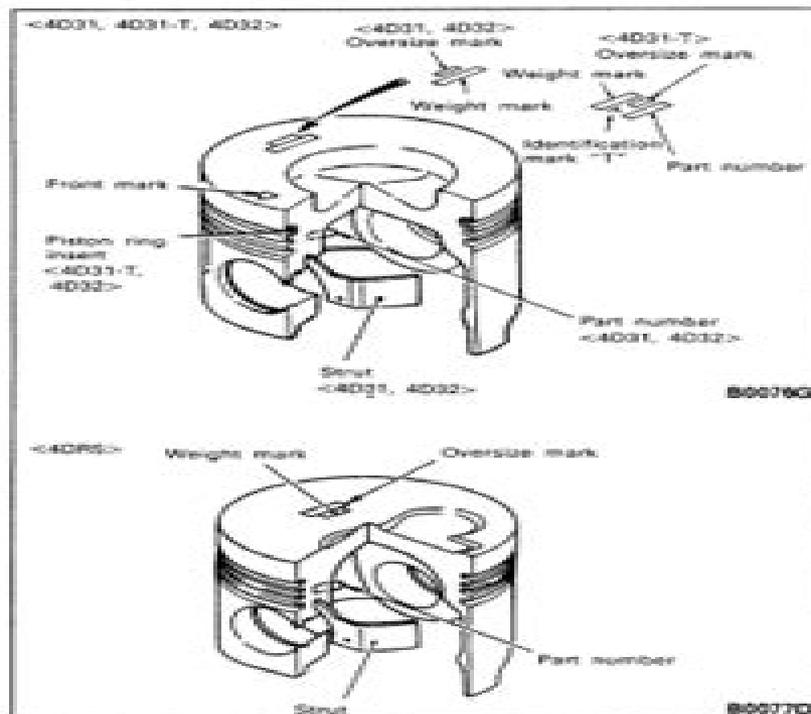
(3) Crankcase and Cylinder Sleeve



- (a) The crankcase is made of cast iron and built rigid with minimum stress concentration and deformation.
- (b) Three camshaft bushings are installed in the camshaft bearings of the crankcase. To facilitate insertion and removal of the camshaft from the front end of the crankcase, the bushing I.D. is made smaller toward the rear.
- (c) On 4D31, 4D31-T and 4DR5 engines, cylinder sleeves are press-fitted into the crankcase.

(4) Piston and Piston Ring

(a) Piston



The piston, made of aluminum alloy casting, has a strut inside (no strut installed on 4D31-T) that ensures an adequate clearance between the piston and cylinder sleeve.

The piston pin arrangement is full-floating. The piston pin is offset toward the thrust side, which, together with the effect of the strut, minimizes piston slap. Stamped on the top surface of the piston are the piston weight mark, part number, oversize mark (oversize piston only) and the front mark "◁". On 4D31-T and 4D32, a piston ring insert is cast in the top ring groove for increased durability.

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