

10C-10 DIESEL ENGINE INSPECTION AND ADJUSTMENT

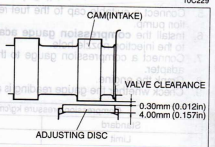
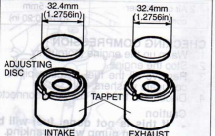
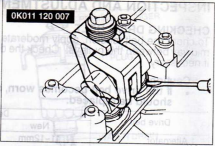
Adjust the valve clearances by following the procedures below if they are not within the standard.
 Face the intake cam straight upward.
 Move the tappet so that its notch is at the manifold side, so that access to the adjusting disc is easy.
 Using the tappet holder (OK011 120 007), press the tappet down to the position where the adjusting disc becomes accessible.
 Using a small screw driver or similar tool, take out the adjusting disc.

Select an appropriate disc depending on the valve clearance measured. Install it and check the clearance again.

Example (Intake valve) :
 Thickness of original adjusting disc + (measured clearance - standard clearance) = thickness of new adjusting disc.
 $30 + (0.30 - 0.25) = 4.05\text{mm}$
 $157 + (0.012 - 0.010) = 0.159\text{ in}$

Note
 • The number marked on the disc indicates its thickness.
 Example : 3925 means 3.925mm (0.1056in).
 Adjusting discs are available in 37 different thickness within the 3.400-3.650mm (0.134-0.144in), 4.350-4.600mm (0.171-0.181in) range, at intervals of 0.050mm (0.002 in) and 3.700-4.275mm (0.146-0.169in) range, at intervals of 0.25mm (0.00984in).

Measure and adjust cylinder 2 to 4 in the same way.



ON-VEHICLE

TIMING BELT Removal
 Disconnect the battery.
 Drain engine coolant.
 Then remove each...

- Cautions**
 a) Wheels must be chocked.
 b) Be careful of the timing belt.
 c) The timing belt must be replaced in pairs.
 d) Replace the timing belt.
 e) Be careful of the timing belt.
 f) Replace the timing belt.

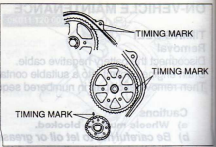


1. Radiator fan
2. Cooling fan
3. Cooling fan
4. Air conditioner
5. Air conditioner (equipped)
6. Alternator

10C-12 DIESEL ENGINE ON-VEHICLE MAINTENANCE

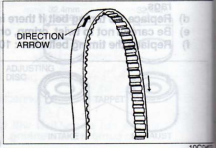
Timing belt

1. Before removing the timing belt and timing belt tensioner, align each timing mark.



Cautions
 a) After removing the timing belt, don't rotate the crankshaft pulley and camshaft pulley to prevent damaging the valves.

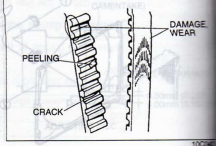
- a) If reusing the timing belt, draw a direction arrow on the timing belt to replace it in the same direction.



Inspection

- Timing belt**
 1. Replace the belt if there is any oil, grease, or moisture on it.
 2. Check for damage, wear, peeling, cracks, or hardening. Replace if necessary.

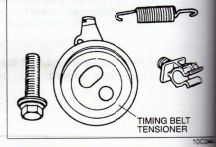
Cautions
 a) Never forcefully twist the timing belt, turn it inside out, or bend it.
 b) Be very careful not to allow oil, grease, or moisture to get on the timing belt.



Timing belt tensioner

1. Check the rotation of the timing belt pulley, and check for play or abnormal noise. Replace if necessary.

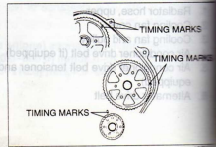
Cautions
 a) Do not clean the timing belt tensioner with cleaning fluids.
 b) If it is dirty, use a rag to wipe it clean, so as to avoid scratching it.



Timing belt pulley, camshaft pulley and injection pump pulley

1. Check the pulley teeth for damage, wear, deformation, etc. Replace if necessary.

Caution
 • Do not wash the pulley. If it is dirty, use a rag to wipe it clean, so as to avoid it being contaminated by oil etc.



Installation

1. Check to be sure that the timing marks of camshaft pulley, timing belt pulley and crankshaft pulley match to each timing mark.

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