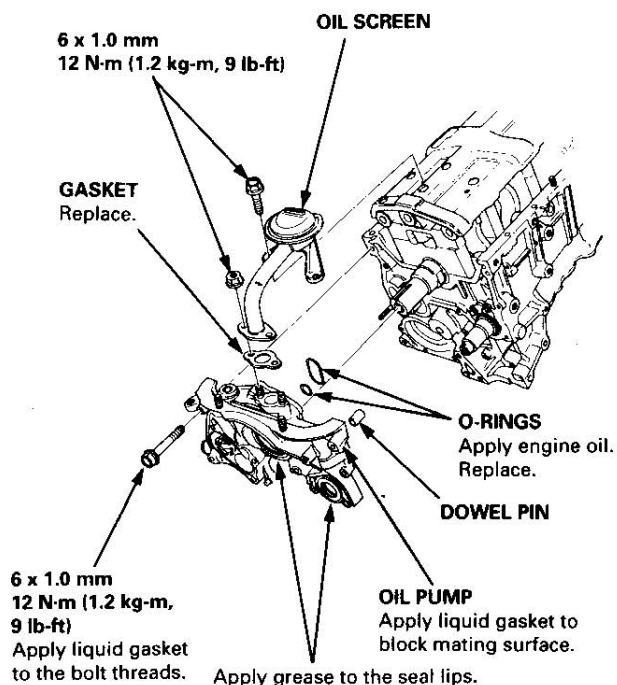


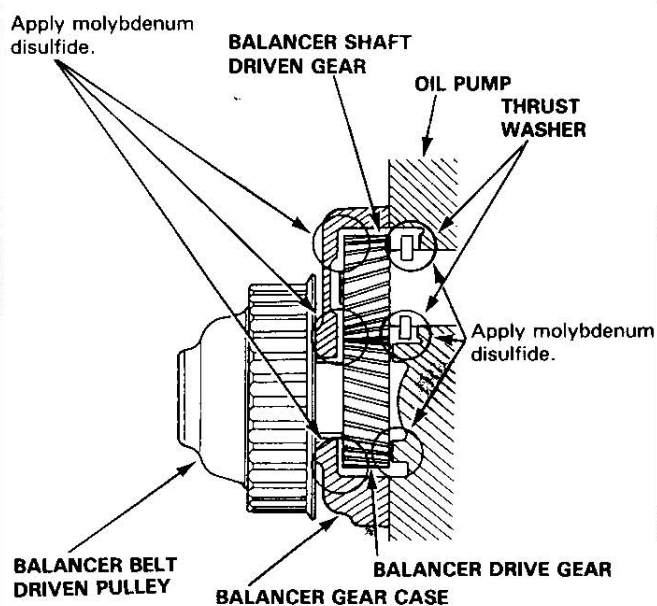
# Crankshaft and Balancer Shafts

## Installation (cont'd)



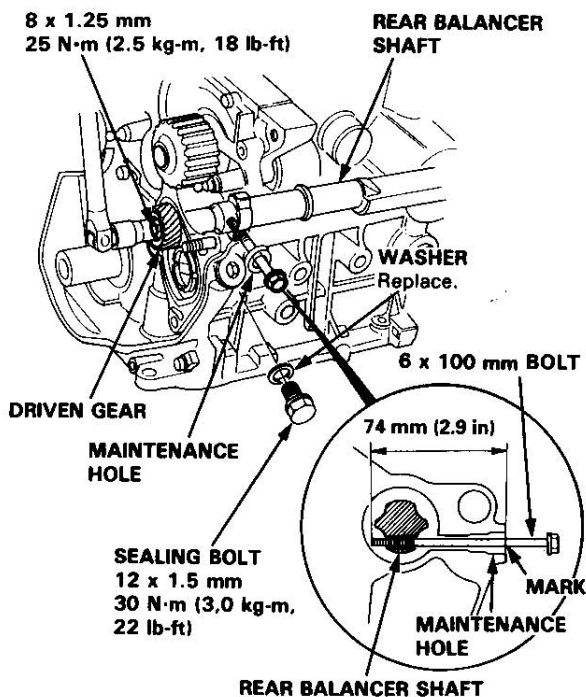
10. Install the baffle plate, then install the oil screen.

11. Apply molybdenum disulfide to the thrust surfaces of the balancer gears as shown, before installing the balancer driven gear and the balancer gear case.



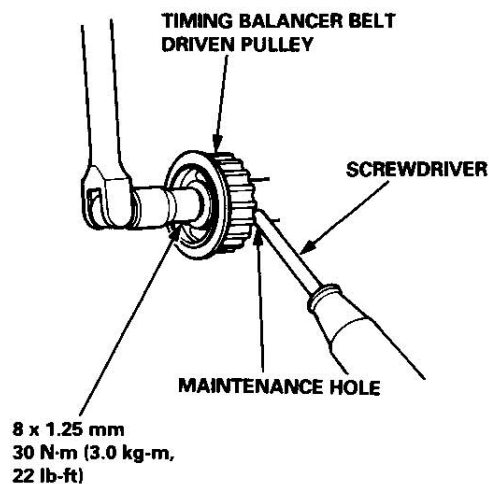
12. Hold the rear balancer shaft with a 6 x 100 mm bolt, then install the balancer driven gear.

### REAR BALANCER SHAFT:



13. Hold the front balancer shaft with a screwdriver, then install the timing balancer belt driven pulley.

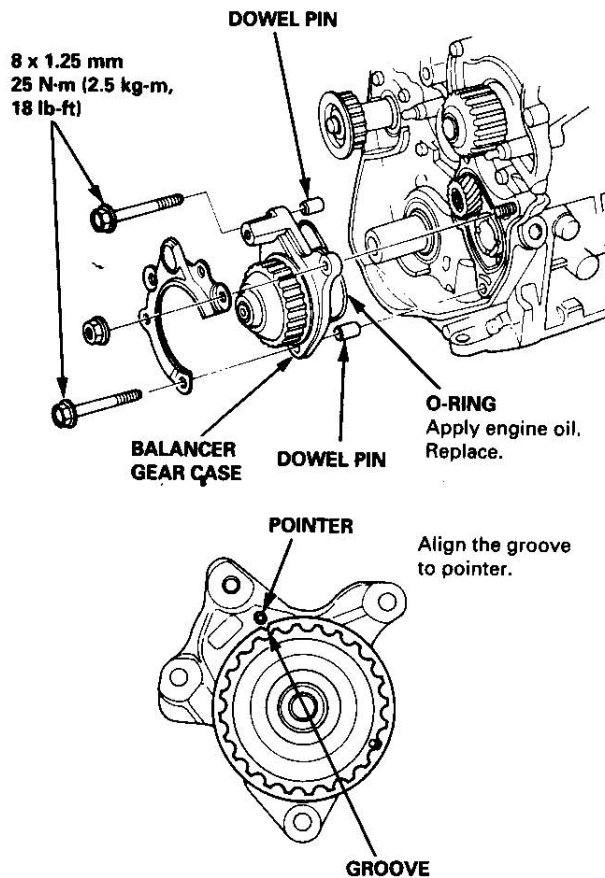
### FRONT BALANCER SHAFT:



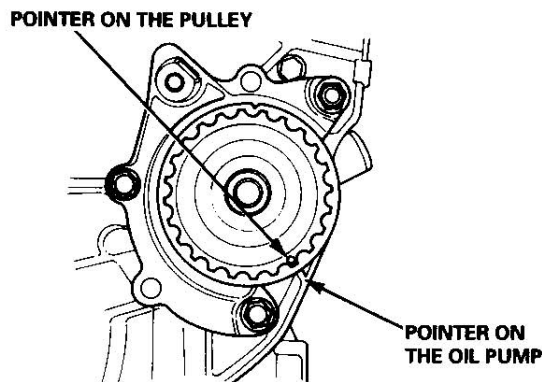


#### 14. Install the balancer gear case to the oil pump.

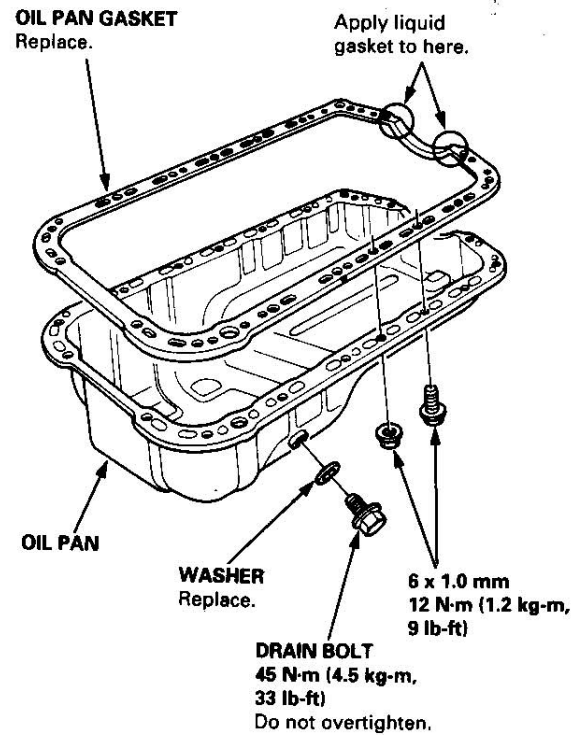
**NOTE:** Align the groove on the pulley edge to the pointer on the gear case while holding the rear balancer with 6 x 100 mm bolt, then install the gear case.



#### 15. Check alignment of pointers after installing the gear case.

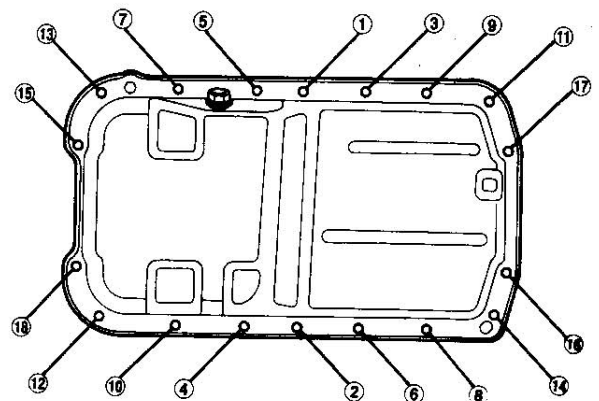


#### 16. Install the oil pan.



#### 17. Tighten the bolts and nuts as shown below.

**Torque: 12 N-m (1.2 kg-m, 9 lb-ft)**



**NOTE:** Tighten the bolts and nuts in two steps and torque them in a criss-cross pattern.

# Crankshaft and Balancer Shaft Oil Seals

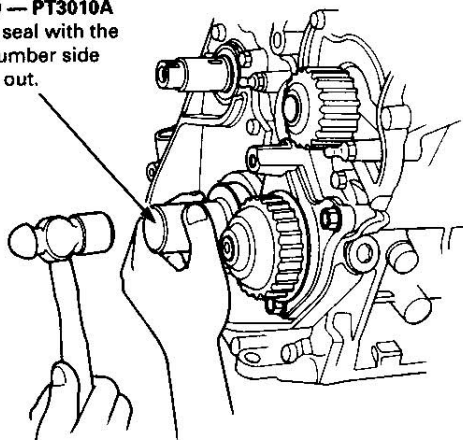
## Installation (engine removal not required)

**NOTE:** The crankshaft and front balancer shaft oil seal housing surface should be dry.

Apply a light coat of grease to the crankshaft, the balancer shaft and to the lips of the seals.

1. Using the special tool, drive in the crankshaft oil seal until the driver bottoms against the oil pump. When the seal is in place, clean any excess grease off the crankshaft and check that the oil seal lip is not distorted.

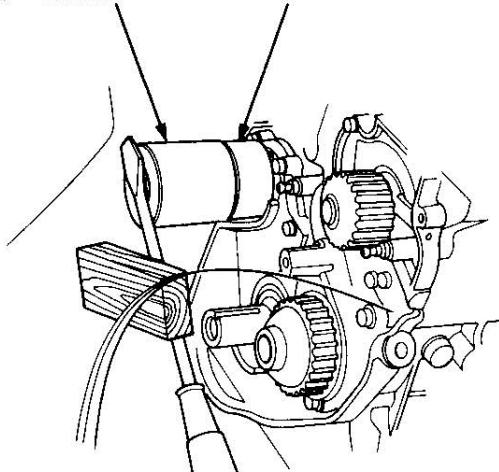
**SEAL DRIVER**  
**07LAD — PT3010A**  
Install seal with the  
part number side  
facing out.



2. Using the special tool, drive in the front balancer shaft oil seal until the driver bottoms against the oil pump. When the seal is in place, clean any excess grease off the balancer shaft and check that the oil seal lip is not distorted.

**HUB ASSEMBLY GUIDE**  
**ATTACHMENT**  
**07GAF — SE00200**

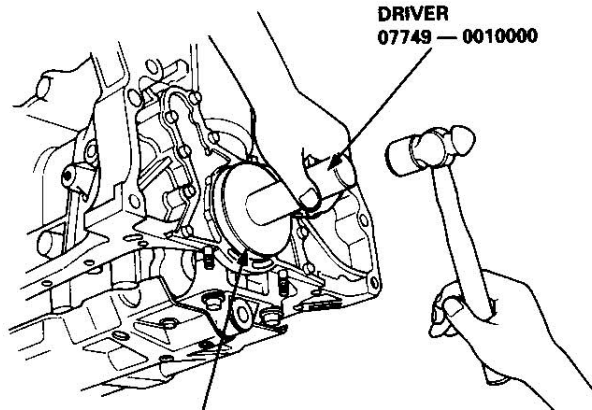
**ATTACHMENT,**  
**30 mm I.D.**  
**07746 — 0030300**



3. Using the special tool, drive in the crankshaft oil seal into the right side cover to the point where the clearance between the bottom of the crankshaft oil seal and right side cover is 0.5 — 0.8 mm (0.02 — 0.03 in) (page 7-25).

**NOTE:** Align the hole in the driver attachment with the pin on the crankshaft.

**DRIVER**  
**07749 — 0010000**



**DRIVER ATTACHMENT**  
**07948 — SB00101**  
Install seal with the  
part number side  
facing out.