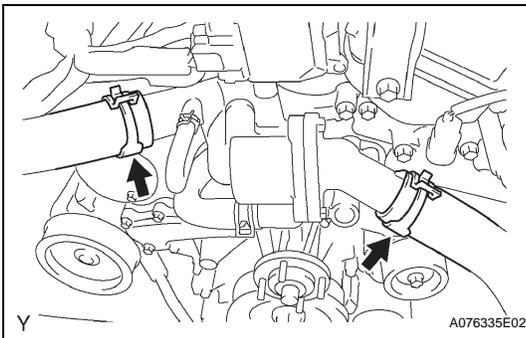
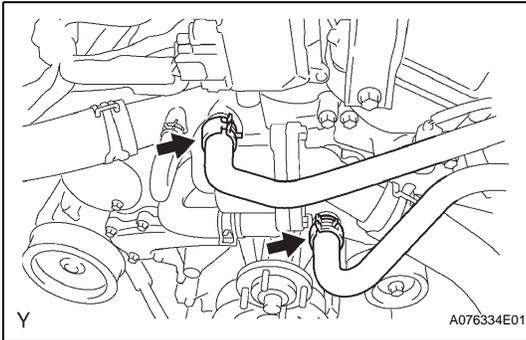


# WATER PUMP

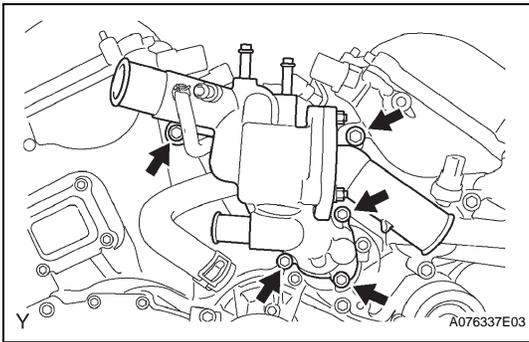
## REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY (for Pre Runner and 4WD Type)**
  - (a) Remove the 4 bolts, then remove the engine under cover.
3. **DRAIN ENGINE COOLANT (See page CO-3)**
4. **REMOVE RADIATOR SUPPORT TO FRAME SEAL LH (See page CO-15)**
5. **REMOVE V-BANK COVER (See page ES-414)**
6. **REMOVE FAN SHROUD (See page CO-15)**
7. **REMOVE AIR CLEANER ASSEMBLY (See page ES-415)**
8. **REMOVE WATER INLET**
  - (a) Disconnect the 2 oil cooler hoses (with oil cooler).

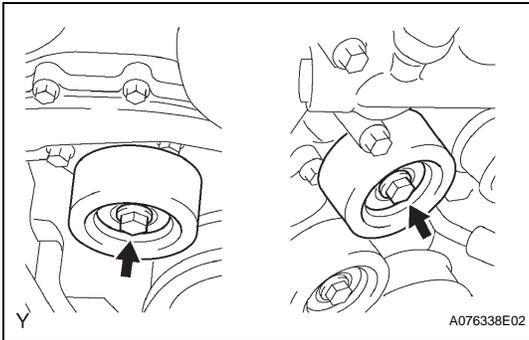


- (b) Disconnect the 2 radiator hoses.

- (c) Disconnect the 5 water by-pass hoses.



- (d) Remove the 5 bolts and water inlet.
- (e) Remove the O-ring from the water outlet pipe.
- (f) Remove the gasket from the water pump.



### 9. REMOVE NO. 2 IDLER PULLEY SUB-ASSEMBLY

- (a) Remove the 2 bolts, then remove the 2 idler pulleys.

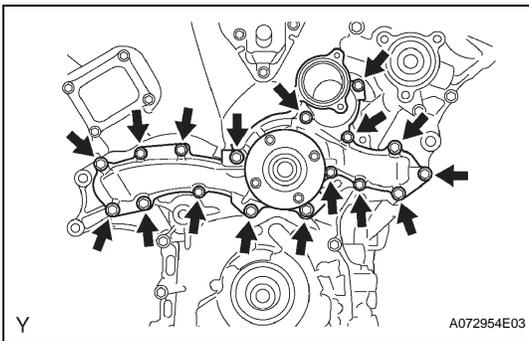
### 10. REMOVE GENERATOR ASSEMBLY (See page CH-7)

### 11. SEPARATE COOLER COMPRESSOR ASSEMBLY (See page ES-409)

### 12. REMOVE V-RIBBED BELT TENSIONER ASSEMBLY

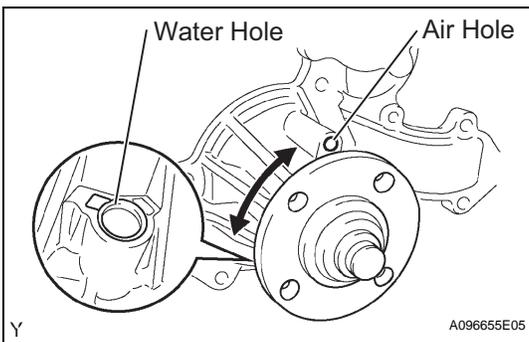
HINT:

Drive Type	See Page
2WD	<a href="#">EM-23</a>
Pre Runner and 4WD	<a href="#">EM-44</a>



### 13. REMOVE WATER PUMP ASSEMBLY

- (a) Remove the 17 bolts, then remove the water pump and gasket.



## INSPECTION

### 1. INSPECT WATER PUMP ASSEMBLY

- (a) Visually check the water hole for coolant leakage. If leakage is found, replace the water pump assembly.
- (b) Turn the pulley and check that the water pump bearing moves smoothly and quietly. If necessary, replace the water pump assembly.