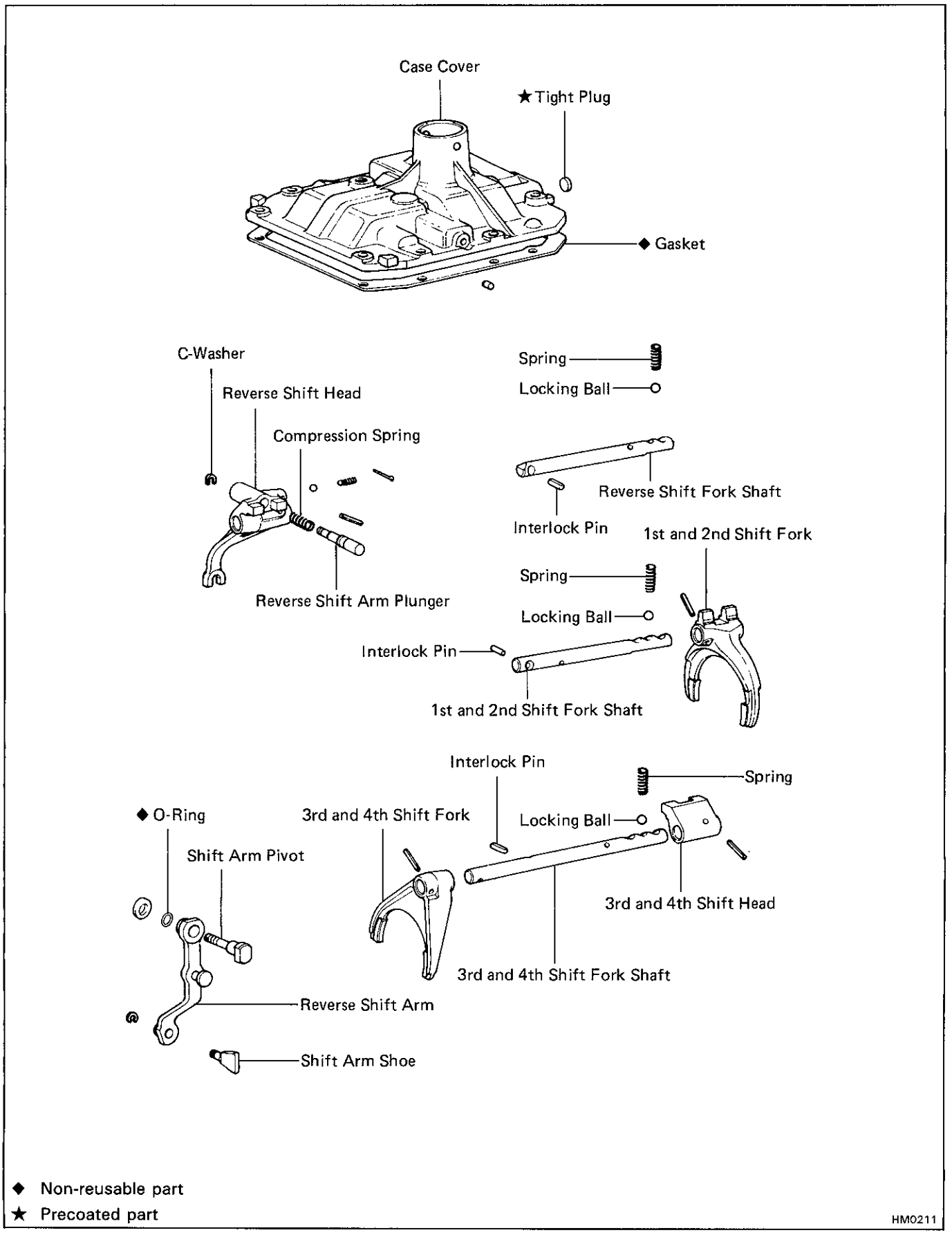
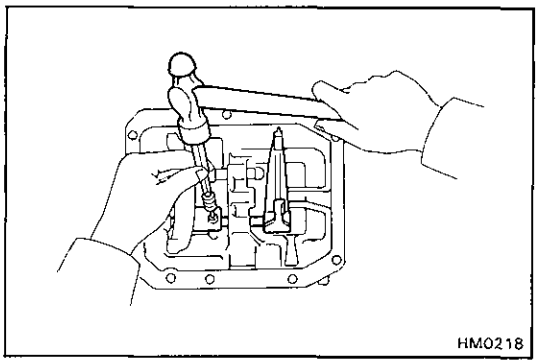
Case Cover Assembly (H41)

COMPONENTS



◆ Non-reusable part
★ Precoated part

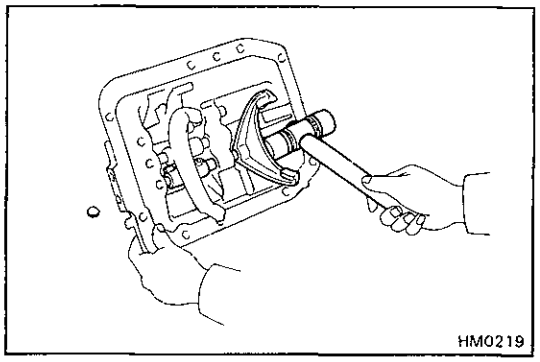
HM0211



DISASSEMBLY OF CASE COVER ASSEMBLY

1. REMOVE THIRD AND FOURTH SHIFT HEAD, THIRD AND FOURTH SHIFT FORK AND SHAFT

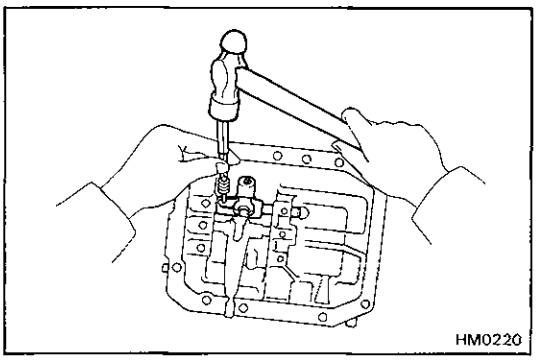
(a) Using a pin punch and hammer, drive out the slotted spring pins from the shift head and the shift fork.



(b) Using a plastic hammer, drive out the shift fork shaft together with the tight plug.

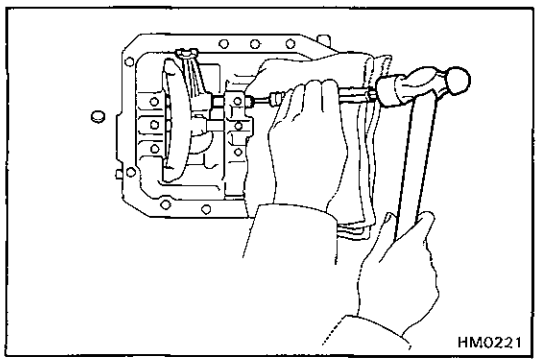
HINT: Cover the service hole with your hand to prevent the locking ball from flying out.

(c) Remove the fork shaft, shift head, interlock roller, locking ball and spring.



2. REMOVE REVERSE SHIFT HEAD

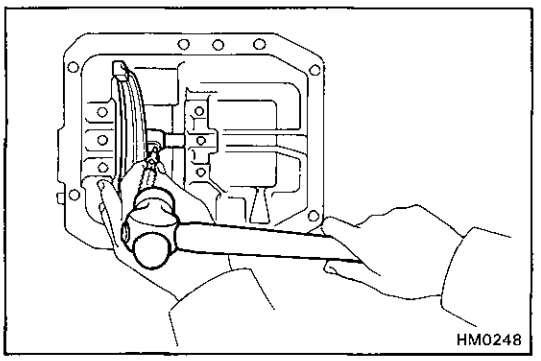
(a) Using a pin punch and hammer, drive out the slotted spring pin from the reverse shift head.



(b) Using a pin punch and hammer, drive out the shift fork shaft together with the tight plug.

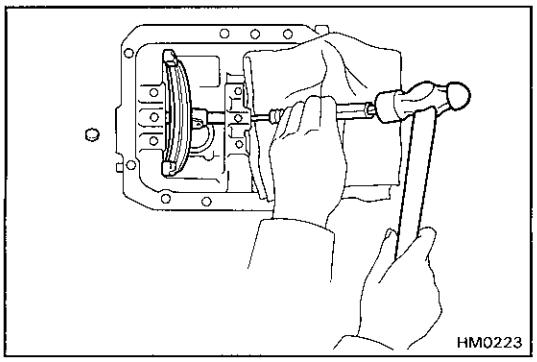
HINT: Cover the service hole with your hand to prevent the locking ball from flying out.

(c) Remove the fork shaft, shift head, interlock roller, locking ball and spring.



3. REMOVE FIRST AND SECOND SHIFT FORK AND SHAFT

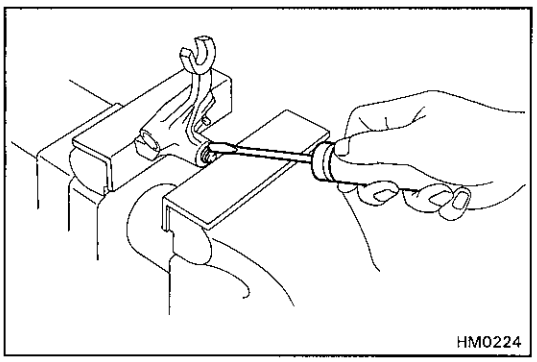
(a) Using a pin punch and hammer, remove the slotted spring pin from the shift fork.



(b) Using a pin punch and hammer, drive out the shift fork shaft together with the tight plug.

HINT: Cover the service hole with your hand to prevent the locking ball from flying out.

(c) Remove the fork shaft, shift fork, interlock pin, locking ball and spring.

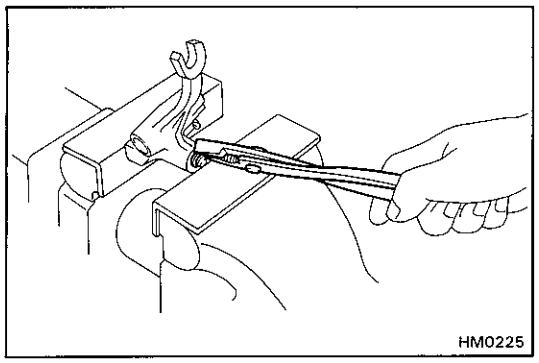


4. DISASSEMBLE SHIFT HEAD

(a) Compress the spring, and remove the C-washer.

NOTICE: Be careful as the plunger will spring out.

(b) Remove the plunger and compression spring.

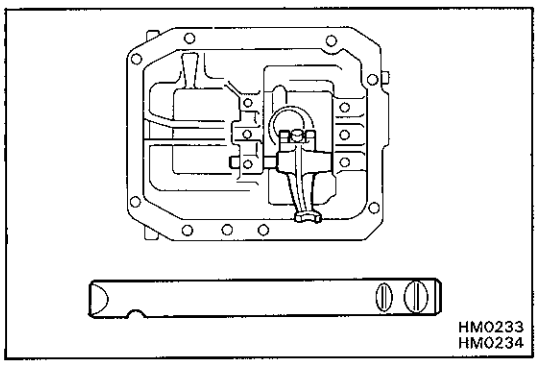

HM0225

ASSEMBLY OF CASE COVER ASSEMBLY

1. ASSEMBLE REVERSE SHIFT HEAD

(a) Install the compression spring and plunger into the shift head.

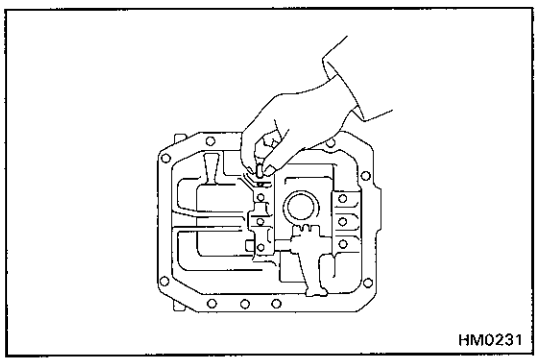
(b) Press the end of the plunger, and install a new C-washer.


HM0233
HM0234

2. INSTALL REVERSE SHIFT HEAD AND SHAFT

(a) Install the spring and locking ball.

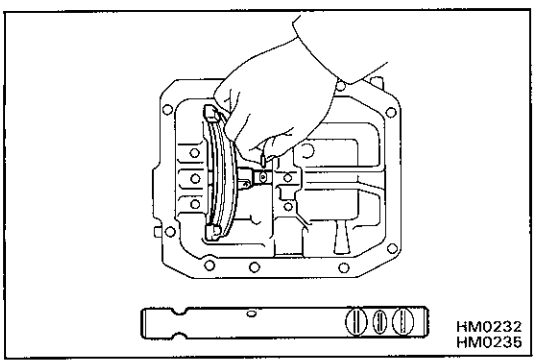
(b) Insert the fork shaft through the reverse shift head.


HM0231

3. INSTALL FIRST AND SECOND SHIFT FORK AND SHAFT

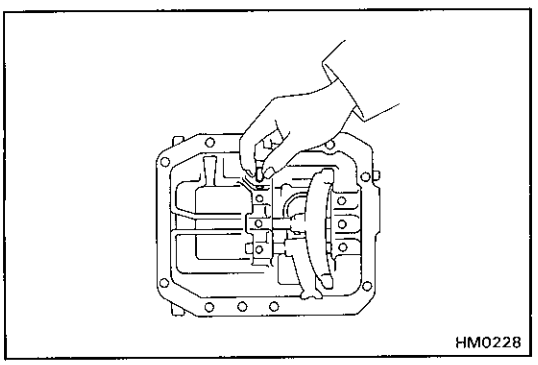
(a) Install the spring and locking ball.

(b) Coat the interlock roller with MP grease and install it in the case cover.


HM0232
HM0235

(c) Coat the interlock pin with MP grease and install it in the shaft.

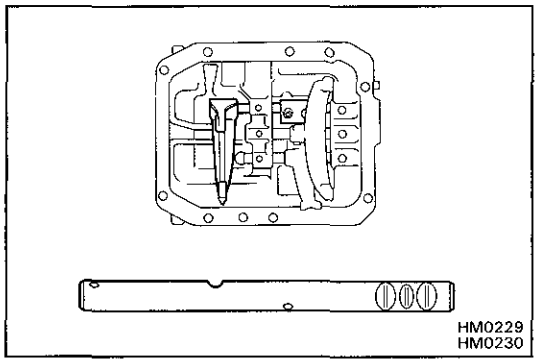
(d) Insert the fork shaft through the shift fork.


HM0228

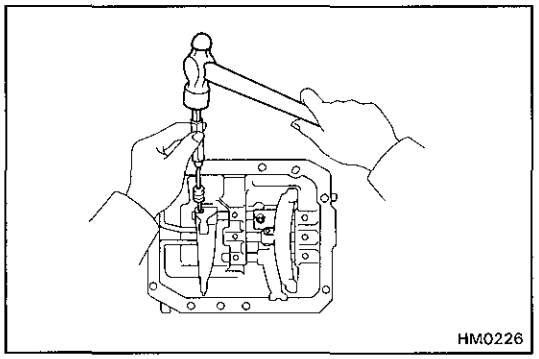
4. INSTALL THIRD AND FOURTH SHIFT FORK AND SHAFT

(a) Install the spring and locking ball.

(b) Coat the interlock roller with MP grease and install it in the case cover.


HM0229
HM0230

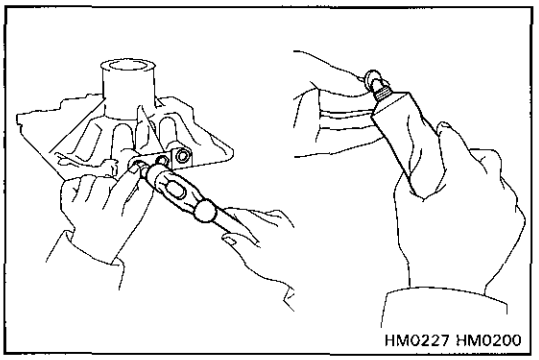
(c) Insert the fork shaft through the third and fourth shift fork.


HM0226

5. INSTALL SLOTTED SPRING PINS

(a) Align the pin hole of each shaft with the fork, head and the other fork respectively.

(b) Using a pin punch and hammer, drive in the slotted spring pins until they are flush with the fork.


HM0227 HM0200

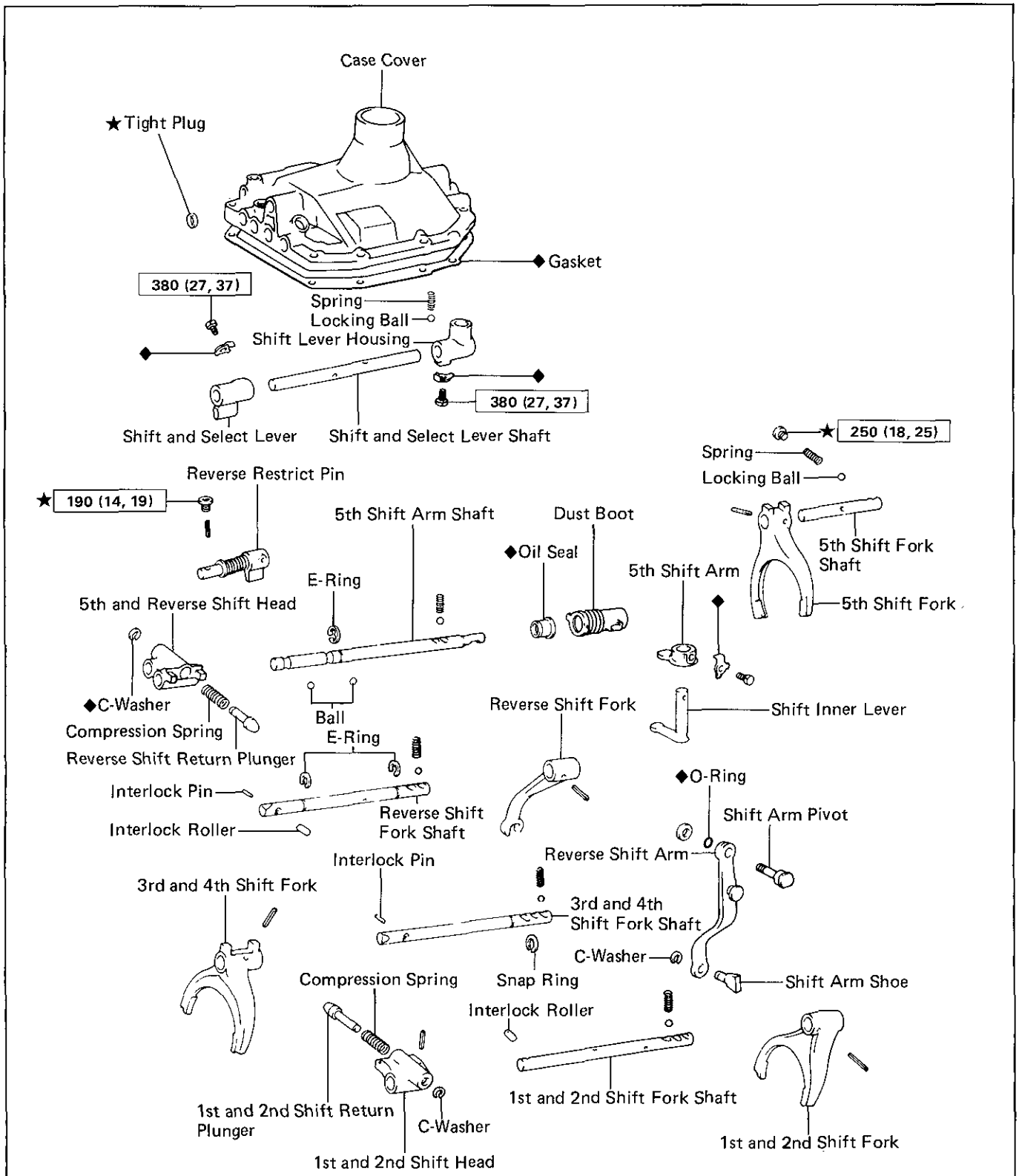
6. INSTALL TIGHT PLUGS

Apply liquid sealer to the tight plugs and drive them into the case cover as shown.

Sealant: Part No.08833-00070, THREE BOND 1324, or equivalent

Case Cover Assembly (H55F)

COMPONENTS

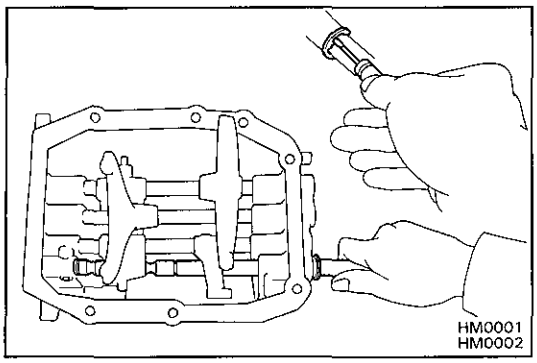


kg-cm (ft-lb, N·m) : Specified torque

◆ Non-reusable part

★ Precoated part

HM0261

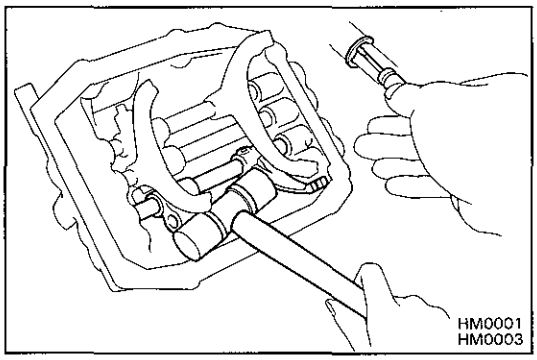


DISASSEMBLY OF CASE COVER ASSEMBLY

1. REMOVE FIFTH SHIFT ARM SHAFT

(a) Using a screwdriver, pry out the E-ring.

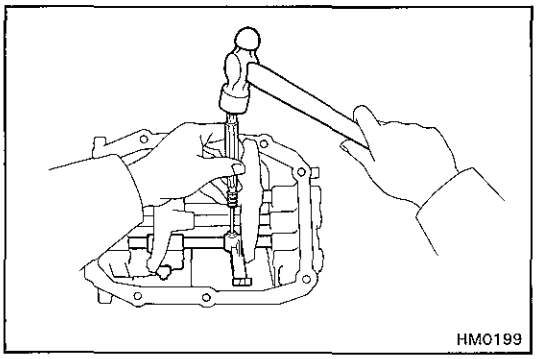
(b) Remove the shaft, two interlock balls, locking ball and spring.



2. REMOVE FIFTH AND REVERSE SHIFT HEAD, REVERSE SHIFT FORK AND FORK SHAFT

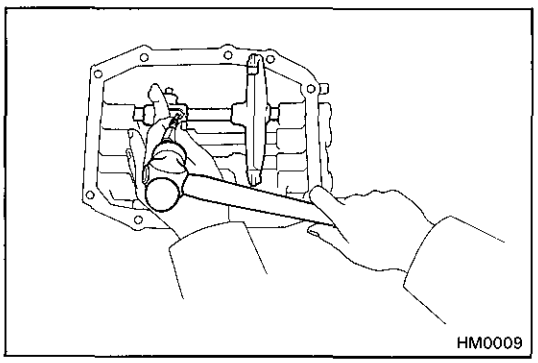
(a) Using a screwdriver, pry out the E-rings

(b) Using a plastic hammer, tap on the shift fork and remove the tight plug from the case cover.



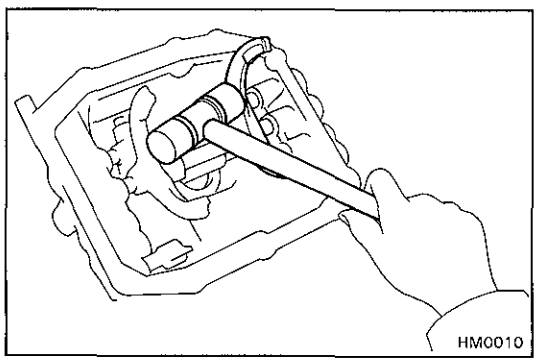
(c) Using a pin punch, drive out the slotted spring pin from the shift fork.

(d) Remove the fork shaft, shift fork, shift head, interlock roller, interlock pin, locking ball and spring.



3. REMOVE FIRST AND SECOND SHIFT HEAD, SHIFT FORK AND FORK SHAFT

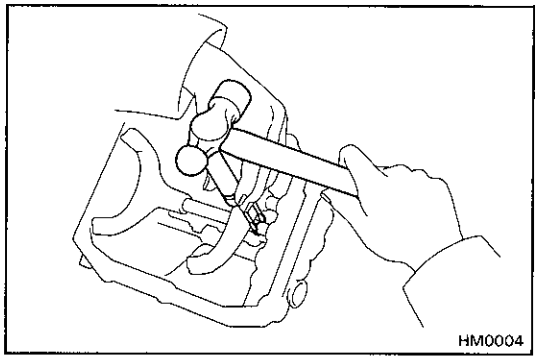
(a) Using a pin punch and hammer, drive out the slotted spring pin from the shift head.



(b) Using a plastic hammer, tap the shift fork and remove the tight plug from the case cover.

(c) Using a pin punch and hammer, drive out the slotted spring pin from the shift fork.

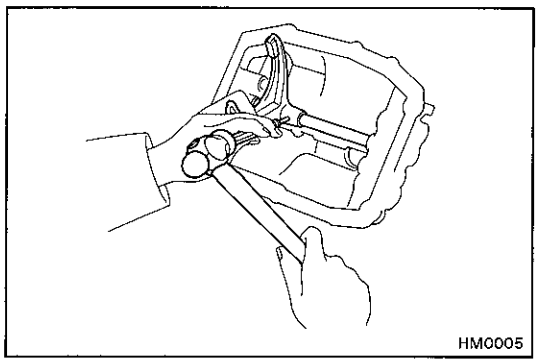
(d) Remove the fork shaft, shift head, shift fork, locking ball and spring.



4. REMOVE THIRD AND FOURTH SHIFT FORK AND FORK SHAFT

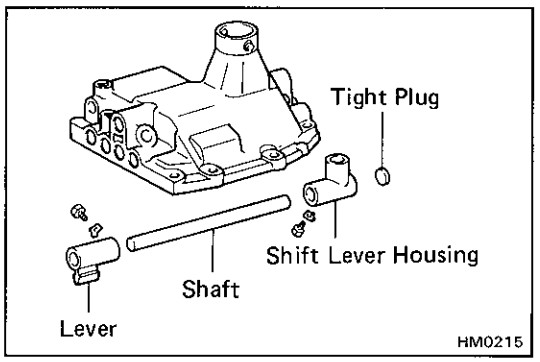
(a) Using two screwdrivers and a hammer, tap out the snap ring.

(b) Using a plastic hammer, tap the shift fork and remove the tight plug from the case cover.



(c) Using a pin punch, drive out the slotted spring pin from the shift fork.

(d) Remove the fork shaft, shift fork, interlock roller, interlock pin, locking ball and spring.



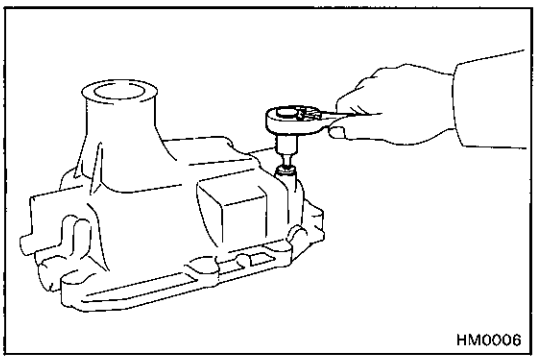
5. REMOVE SELECT LEVER, SHAFT AND SHIFT LEVER HOUSING

(a) Unstake the lock plate and remove the lock bolt from the shift lever housing.

(b) Using a plastic hammer, tap the select lever and remove the tight plug from the case cover.

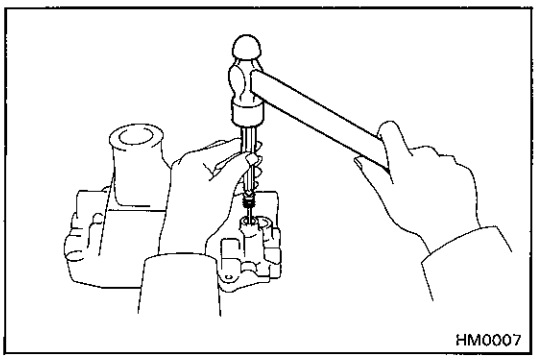
(c) Unstake the lock plate and remove the lock bolt from the lever.

(d) Remove the shaft, select lever and shift lever housing.



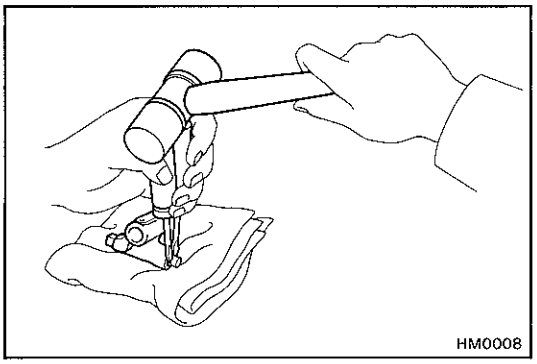
6. REMOVE REVERSE RESTRICT PIN

(a) Using a torx socket wrench, remove the straight screw plug.



(b) Using a pin punch and hammer, drive out the slotted spring pin.

(c) Remove the restrict pin.



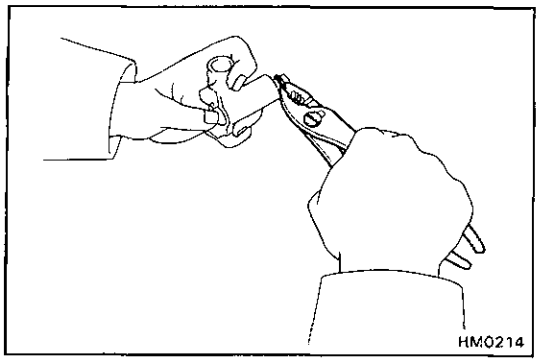
7. DISASSEMBLE SHIFT HEADS

(a) Using two screwdrivers and a hammer, remove the C-washer.

NOTICE: Be careful as the plunger will spring out.

(b) Remove the plunger and compression spring.

HINT: Be careful not to mix up the springs and plungers.

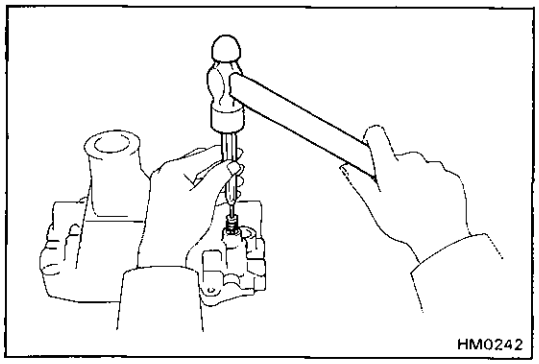


ASSEMBLY OF CASE COVER ASSEMBLY

1. ASSEMBLE SHIFT HEADS

(a) Install the compression spring and plunger into the shift head.

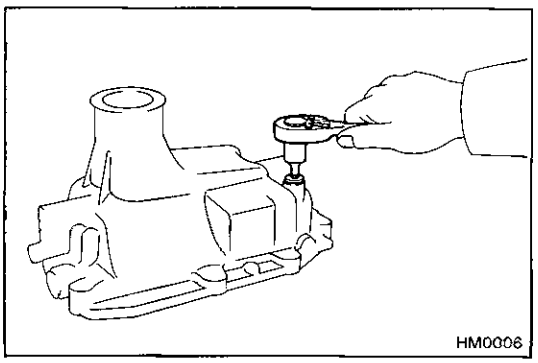
(b) Press the end of the plunger, and install a new C-washer.



2. INSTALL REVERSE RESTRICT PIN

(a) Insert the reverse restrict pin into the case cover.

(b) Align the pin holes of the case cover and reverse restrict pin, and drive in the slotted spring pin.

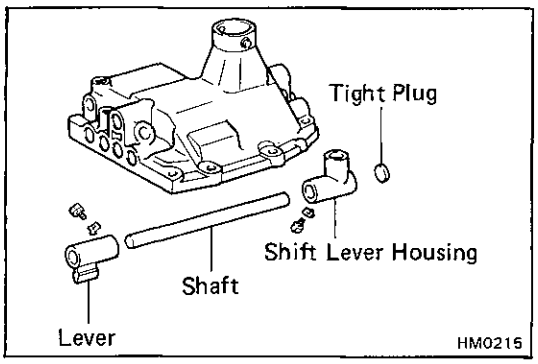


(c) Apply liquid sealer to the plug.

Sealant: Part No.08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

(d) Using a torx socket wrench, torque the plug.

Torque: 190 kg-cm (14 ft-lb, 19 N·m)



3. INSTALL SELECT LEVER, SHAFT AND SHIFT LEVER HOUSING

(a) Insert the shaft through the select lever and shift lever housing.

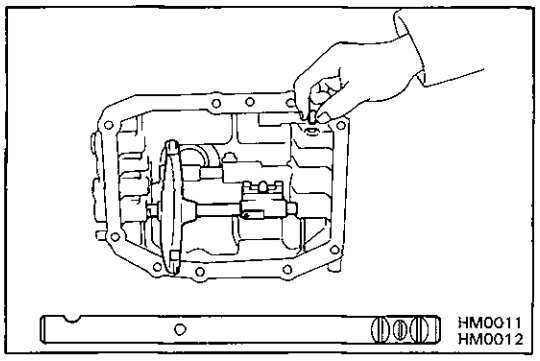
(b) Align the holes of the shaft and select lever, and install the lock bolt with a new lock plate.

Torque: 380 kg-cm (27 ft-lb, 37 N·m)

(c) Align the holes of the shaft and shift lever housing, and install the lock bolt with a new lock plate.

Torque: 380 kg-cm (27 ft-lb, 37 N·m)

(d) Stake the lock plates.

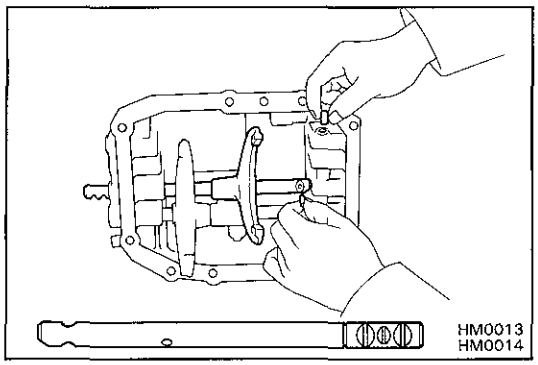


4. INSTALL FIRST AND SECOND SHIFT HEAD, FORK SHAFT AND SHIFT FORK

(a) Install the spring and locking ball.

(b) Insert the fork shaft through the shift fork and shift head.

(c) Install the interlock roller to the case cover.



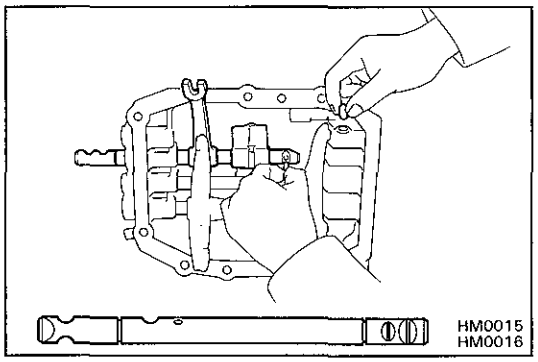
5. INSTALL THIRD AND FOURTH SHIFT FORK AND FORK SHAFT

(a) Install the spring and locking ball.

(b) Coat the interlock pin with MP grease and install it in the shaft.

(c) Insert the fork shaft through the shift fork.

(d) Install the interlock roller to the case cover.



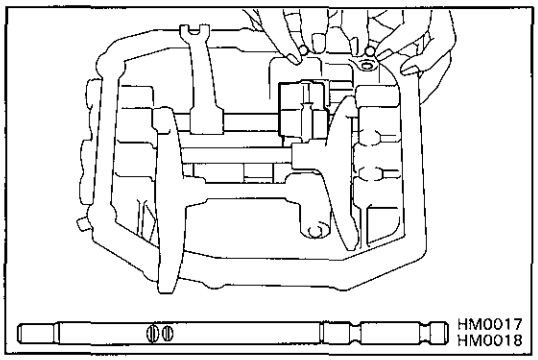
6. INSTALL REVERSE AND FIFTH SHIFT HEAD, REVERSE SHIFT FORK AND FORK SHAFT

(a) Install the spring and locking ball.

(b) Coat the interlock pin with MP grease and install it in the shaft.

(c) Insert the fork shaft through the shift fork and the shift head.

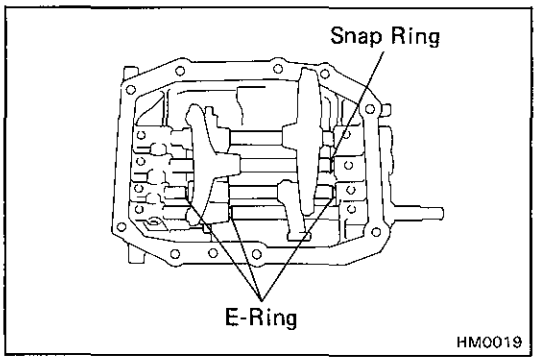
(d) Install the two interlock balls to the case cover and shift head.



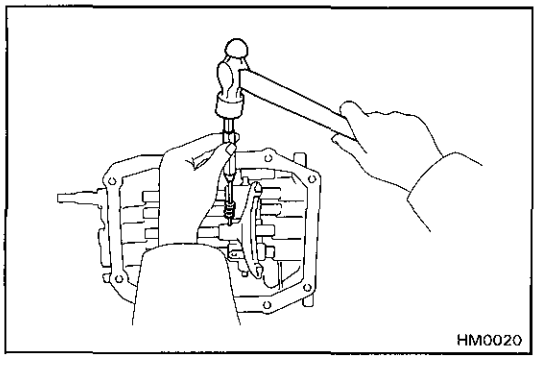
7. INSTALL FIFTH SHIFT ARM SHAFT

(a) Install the spring and locking ball.

(b) Insert the shaft through the shift head.



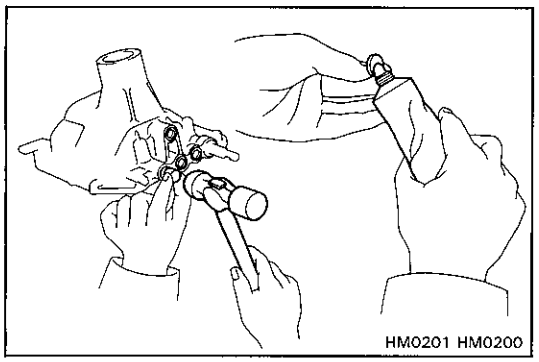
8. INSTALL THREE E-RINGS AND SNAP RING



9. INSTALL SLOTTED SPRING PINS

(a) Align the pin hole of each shaft with either the fork, head and other fork or arm respectively.

(b) Using a pin punch and hammer, drive in the slotted spring pins until they are flush with the fork.



10. INSTALL TIGHT PLUGS

Apply liquid sealer to the tight plugs and drive them into the case cover as shown.

Sealant: Part No.08833-00070, THREE BOND 1324, or equivalent