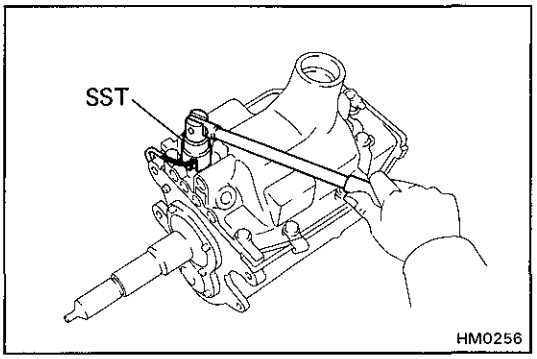
DISASSEMBLY OF TRANSMISSION

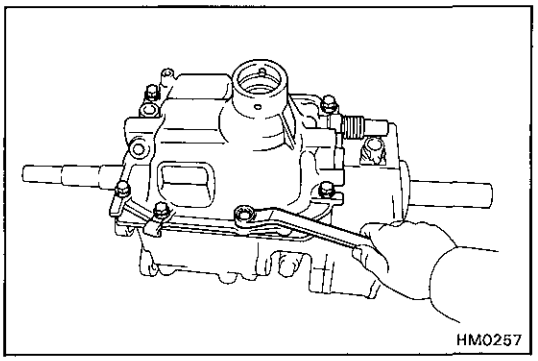
(See pages MT-54, 55)

1. **REMOVE CLUTCH HOUSING**

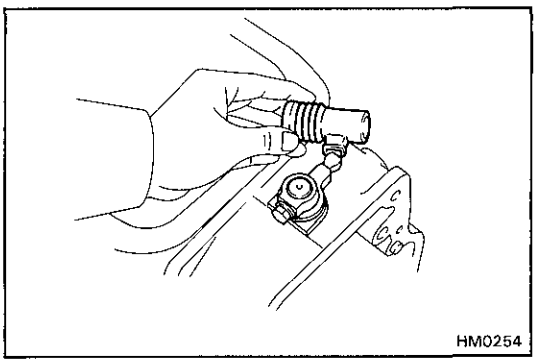
2. **REMOVE TRANSFER**
(See page TF-4)



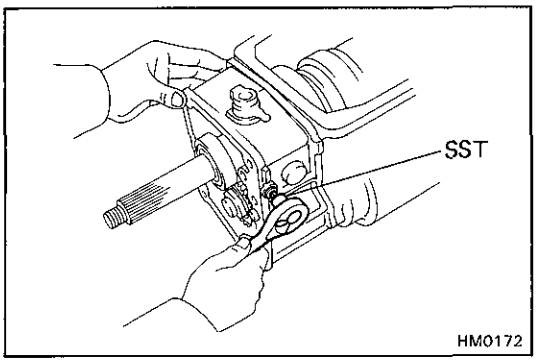
3. **REMOVE BACK-UP LIGHT SWITCH**
Using SST, remove the back-up light switch.
SST 09817-16011



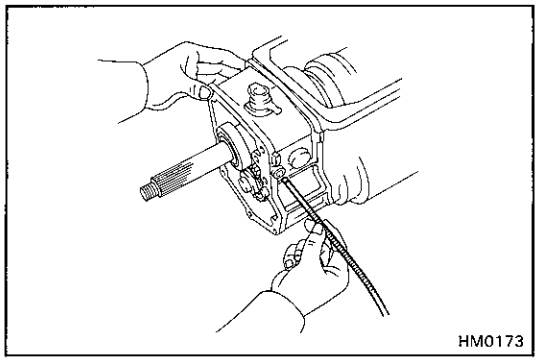
4. **REMOVE CASE COVER**
(a) Remove the case cover and gasket.



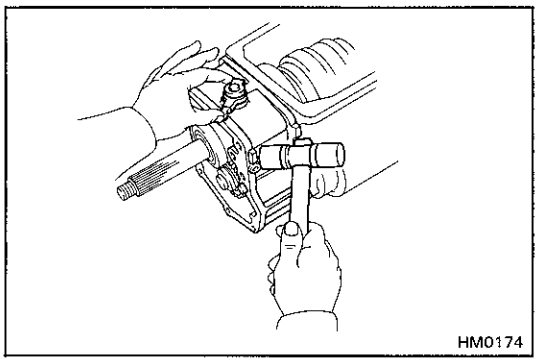
(b) (H55F)
Remove the dust boot.



5. **(H55F)**
REMOVE FIFTH LOCKING BALL AND SPRING
(a) Using SST, remove the screw plug.
SST 09313-30021


HM0173

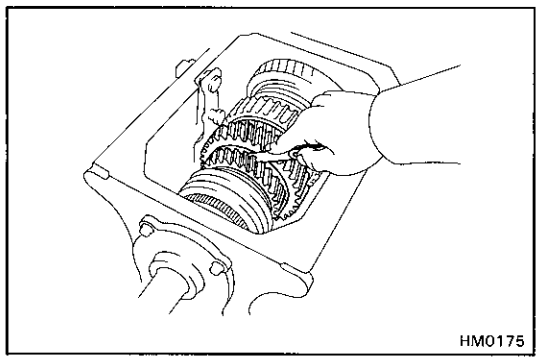
(b) Using a magnetic finger, remove the locking ball and spring.


HM0174

6. REMOVE TRANSFER ADAPTOR

(a) Using a plastic hammer, carefully tap the transfer adaptor.

(b) Pull up fifth shift arm and pull the transfer adaptor from the transmission case.


HM0175

7. MEASURE EACH GEAR THRUST CLEARANCE

Using a feeler gauge, measure the thrust clearance of each gear.

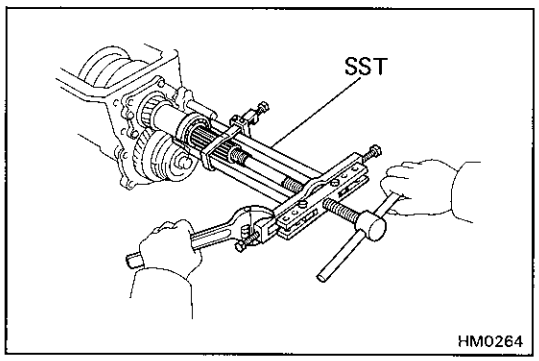
HINT: For later reference, write down the thrust clearance.

Standard clearance:

1st and 2nd gears	**0.175 — 0.325 mm (0.0069 — 0.0128 in.)**
3rd gear	**0.125 — 0.275 mm (0.0049 — 0.0108 in.)**
Counter 5th gear	**0.10 — 0.30 mm (0.0039 — 0.0118 in.)**

Maximum clearance:

1st and 2nd gears	**0.35 mm (0.0138 in.)**
3rd and counter 5th gears	**0.30 mm (0.0118 in.)**

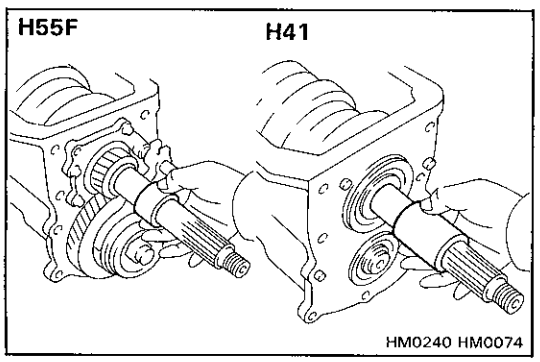


HM0264

8. REMOVE OUTPUT SHAFT REAR BEARING

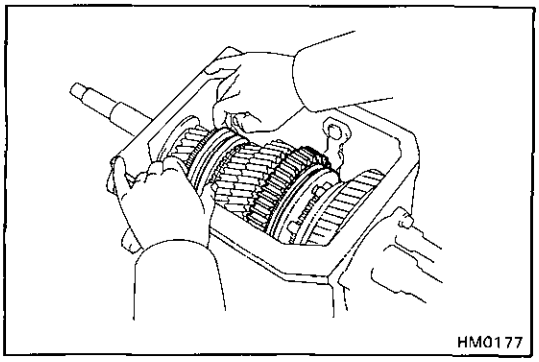
Using SST, remove the rear bearing.

SST 09950-20017



HM0240 HM0074

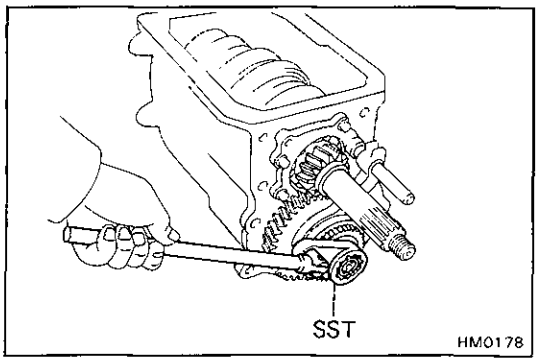
9. REMOVE SPACER



10. (H55F)
REMOVE COUNTER GEAR REAR LOCK NUT

(a) Engage the gear double meshing.

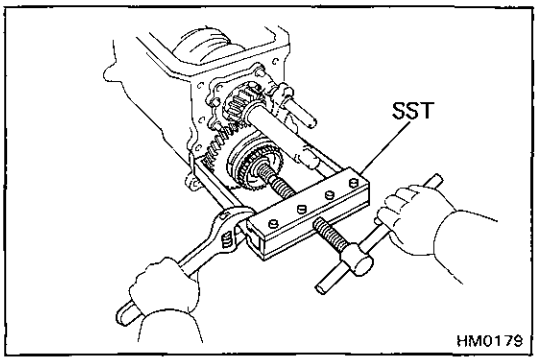
(b) Unstake the lock nut.



(c) Using SST, remove the lock nut.

SST 09326-20011

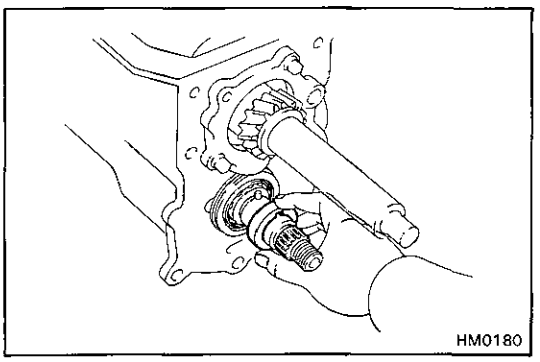
(d) Disengage the gear double meshing.



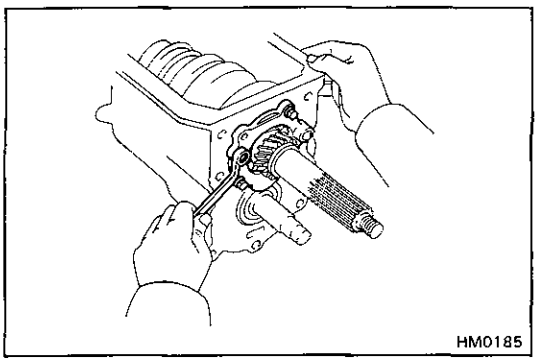
11. (H55F)
REMOVE GEAR SPLINE PIECE NO.5, COUNTER FIFTH GEAR ASSEMBLY AND FIFTH SHIFT FORK

Using SST, pull the counter fifth gear out of the counter gear rear end with gear spline piece No.5 and the fifth shift fork.

SST 09213-27010

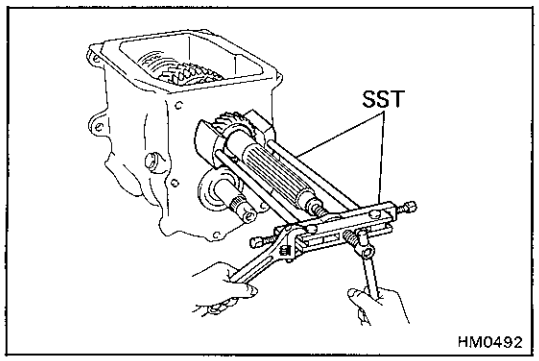


12. (H55F)
REMOVE STRAIGHT PIN AND COUNTER FIFTH GEAR THRUST WASHER



13. (H55F)
REMOVE REAR BEARING RETAINER

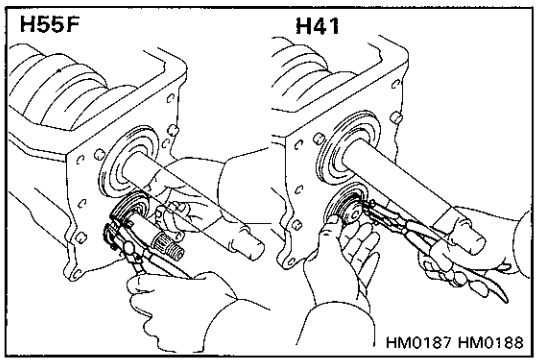
Remove the four bolts and rear bearing retainer.



14. (H55F)
REMOVE FIFTH GEAR FROM OUTPUT SHAFT

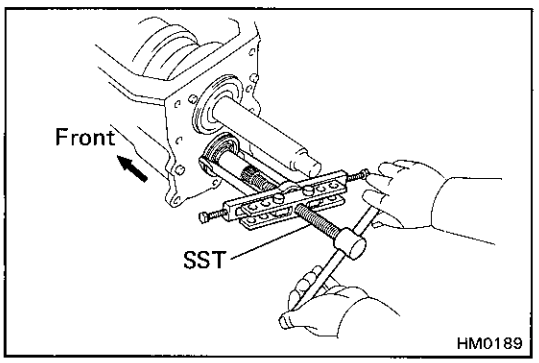
Using SST, remove the fifth gear from the output shaft.

SST 09336-60010, 09950-20017



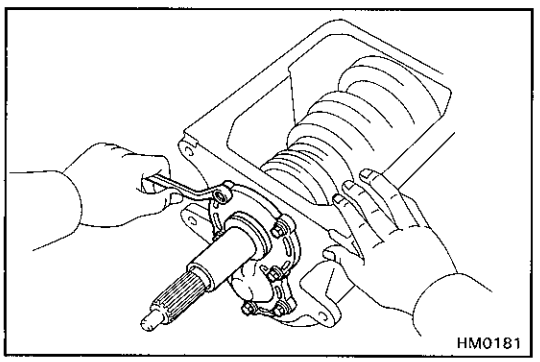
15. **REMOVE COUNTER GEAR SHAFT REAR BEARING**

(a) Using snap ring pliers, remove the snap ring.



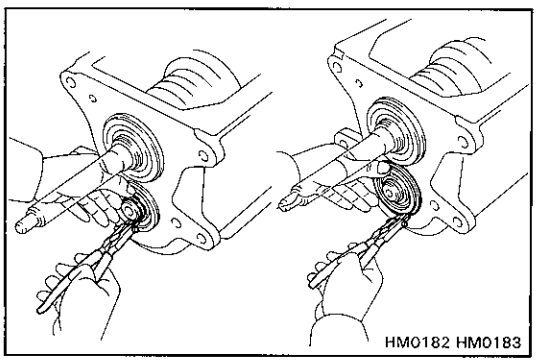
(b) Using SST, remove the counter gear rear bearing.

SST 09950-20017



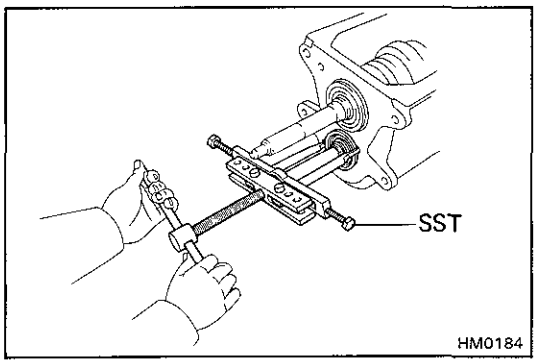
16. **REMOVE FRONT BEARING RETAINER**

HINT: Be careful not to damage the oil seal.



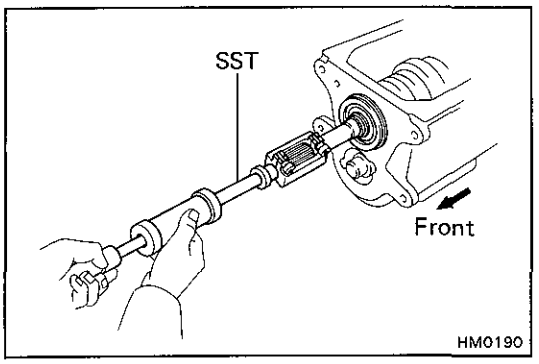
17. **REMOVE COUNTER GEAR FRONT BEARING**

(a) Using snap ring pliers, remove the two snap rings.



(b) Using SST, remove the counter gear front bearing.

SST 09950-20017



18. (FJ, HJ series)
REMOVE INPUT SHAFT AND BEARING

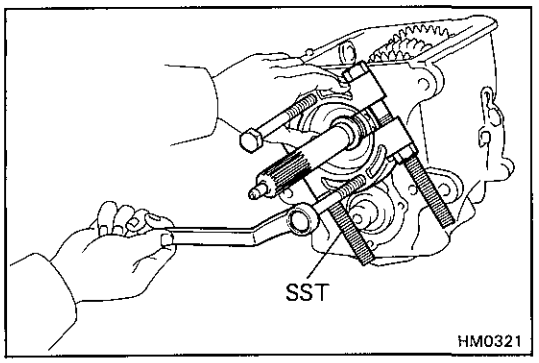
(a) Using SST, remove the input shaft and bearing.

SST 09910-00015 (09911-00011, 09912-00010)

HINT: Insure that the input shaft and counter gear do not strike against each other.

Be careful not to loose the 17 needle roller bearings.

(b) Remove the synchronizer ring.



(BJ series)
REMOVE INPUT SHAFT AND BEARING

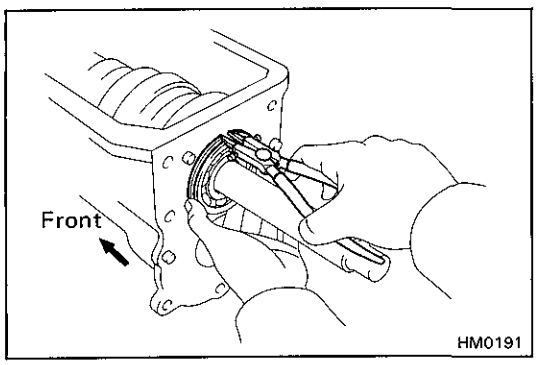
(a) Using snap ring pliers, remove the snap ring of bearing inner.

(b) Set the SST to the snap ring groove, and using two bolts, remove the input shaft and bearing.

SST 09950-00020

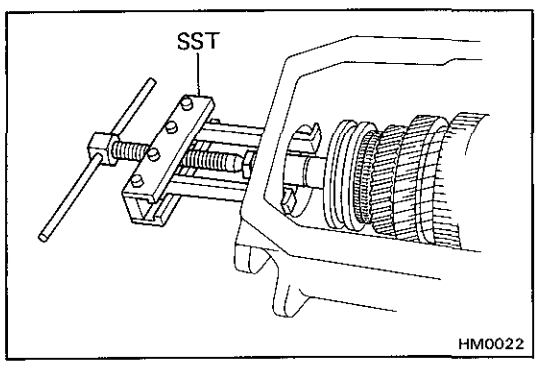
HINT:

- Use steel plates etc. (approx. 2 mm thick) as a backplate to prevent the case from being damaged by the bolts.
- Tighten the two bolts evenly.
  Use bolts with a 12 mm nominal diameter, 1.5 pitch, and approx. 60 mm thread length.
  (Reference: Part No.90101-12034)



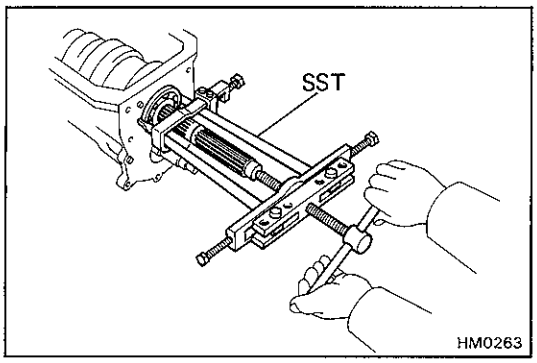
19. REMOVE OUTPUT SHAFT CENTER BEARING

(a) Using snap ring pliers, remove the snap ring.

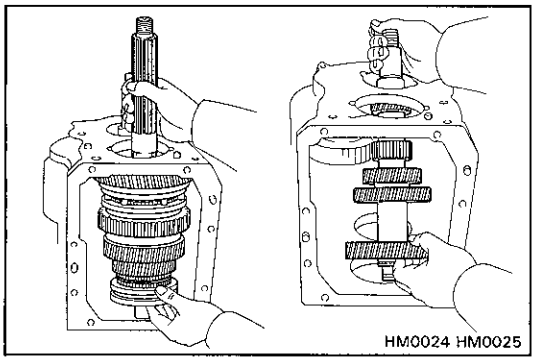


(b) Using SST, support the output shaft front end.

SST 09213-27010

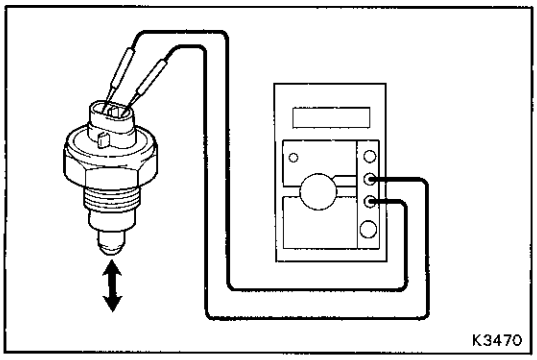


(c) Using SST, remove the center bearing.
SST 09950-20017



20. REMOVE OUTPUT SHAFT AND COUNTER GEAR

(a) Stand the transmission case on its front end.
(b) Remove the output shaft.
(c) Remove the counter gear.



21. INSPECT BACK-UP LIGHT SWITCH

Check that there is continuity between terminals as shown.

Switch Position	Specified
Push	Continuity
Free	No continuity

If operation is not as specified, replace switch.