

REMOVAL OF TRANSMISSION

The Hydra-Matic transmission, rear flywheel housing, torus cover, and torus members are removed as an assembly. To remove assembly, proceed as follows:

1. Raise car on hoist.
2. Drain transmission oil pan.
3. Disconnect filler pipe (Fig. 47).
4. Disconnect speedometer cable and housing at transmission.
5. Disconnect propeller shaft at differential flange and slide propeller shaft from transmission output shaft.
6. Loosen exhaust pipe at cross over pipe flange.
7. Remove flywheel housing bottom cover.
8. Drain oil from torus cover by removing pipe plug using a six-point socket (Fig. 42).
9. Remove throttle control lever (outer) from shaft at side of transmission.
10. Disconnect gear shift control rod assembly from shift lever at side of transmission.
11. Remove 30 torus cover to flywheel attaching bolts.
12. Disconnect the two rear engine mounting insulators from cross member (two bolts per mounting).
13. Using J-4732 raise back of engine until rear engine mountings are approximately $\frac{1}{2}$ " above cross member (Fig. 49). **CAUTION: Do not raise engine more than necessary to remove cross member.**
14. Remove six cross member to frame side rail bolts (three bolts on each side).

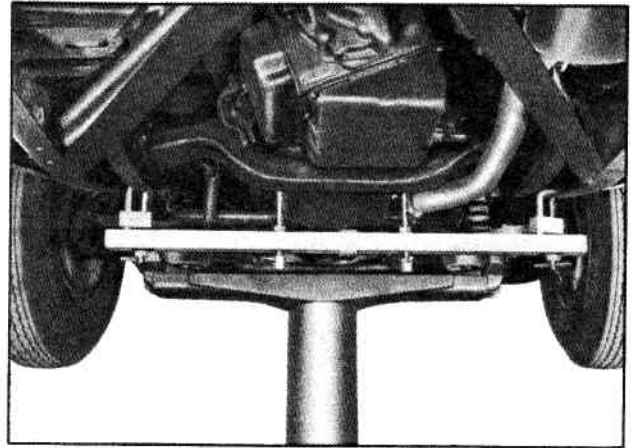


Fig. 49 Raising Rear End of Engine

15. Remove cross member by tapping both ends of cross member down until right end is resting on exhaust pipe. Then tap left end down until it clears frame side rail. Lift right end over exhaust pipe and remove. **NOTE: Mark cross members so left side can be distinguished from right when reinstalling.**
16. Lower engine below its normal position so rear flywheel housing upper attaching bolts are accessible with an 18" to 22" socket extension and $\frac{5}{8}$ " universal socket.
17. Position special automatic transmission jack under transmission, and lift transmission slightly to take strain off rear flywheel housing attaching bolts.
18. Remove six rear housing to front flywheel housing attaching bolts and lockwashers.
19. Remove transmission assembly by moving transmission toward rear of car and at same time lowering assembly to floor.