

FIAT SERVICE LETTER

SUBJECT: TRANSMISSION SYNCHRONIZER RINGS

VEHICLE: X1/9 MODEL

CONDITION: Upon inspection of X1/9 synchronizer rings which have been replaced under warranty, most show no signs of wear or failure.

CAUSE: Improper diagnosis or repairs to correct hard shifting of the transmission.

CORRECTION: In order to eliminate unnecessary synchronizer ring replacements, the following items must be checked for proper operation:

1. Clutch Operation - the clutch must be properly adjusted. This will permit the pressure plate to disengage completely and allow a correct clutch operation.
2. Clutch Release Hydraulic System - the reservoir, master cylinder and slave cylinder must be checked for any possible fluid leaks. If leaks are evident, repair and bleed the entire system. Insure proper adjustment of the slave cylinder. Check the travel of the clutch pedal which should be 1 1/4". If the travel is incorrect, adjust the slave cylinder rod end.
3. Transmission Shifting Linkages - all components of the shifting linkage must be inspected for proper alignment and adjustment.

If any of the above components are operating incorrectly or out of adjustment, hard shifting of the transmission will result.

READ, INITIAL AND PASS ON

Service Manager	Parts Manager	Service Writer	Technician			