

Harsh engagement when changing gear range from P to D or R

| | |
|-------------------|----------------------------------|
| Topic number | LI27.50-P-071658 |
| Version | 1 |
| Function group | 27.50 Gear assembly |
| Date | 08-31-2020 |
| Validity | Vehicles with transmission 725.0 |
| Reason for change | |

Complaint:

When changing gear range from P to D or R, harsh engagement may be noticeable.

Cause:

The engagement process is only adapted for slow engagement from N or P and not for fast changing between D and R. Since the speed of change during the engagement process is very low, several engagement processes are required in order to learn the fill time and contact pressure.

Remedy:

The engagement sequence must be taught in again as follows:

Start the engine from cold,

Engage gear P, wait at least 5s.;

Engage gear D, wait at least 5s.;

Engage gear P, wait at least 5s.;

Engage gear R, wait at least 5s.; .

..

Repeat this process for the engagement processes into D and R 10 times. Then drive the vehicle in up to 3rd gear max., to cool the plates.

Also repeat the above procedure with the transmission at operating temperature (approx. 50°C) and running hot (approx. 70°C)