

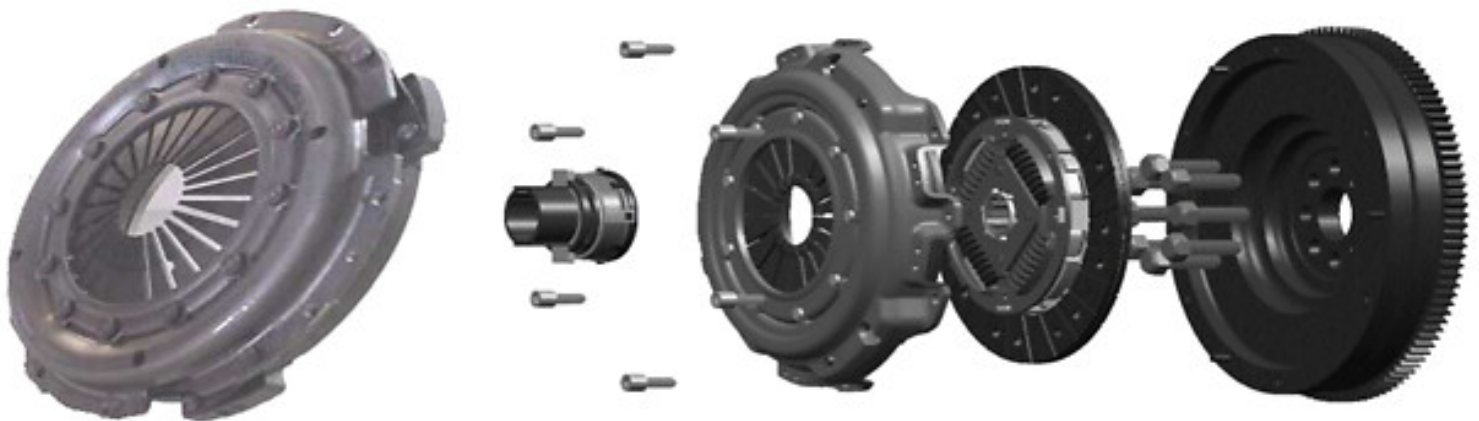
Technical Bulletin

Clutch Cover

Vehicle Type

All Vehicles

Clutch Cover Failure Diagnostic



BACKGROUND

The role of the cover assembly is to engage & disengage the drive plate. The diaphragm spring acts as a lever under the actuation load. Diaphragm load by pushing on the pressure plate help torque transmission.



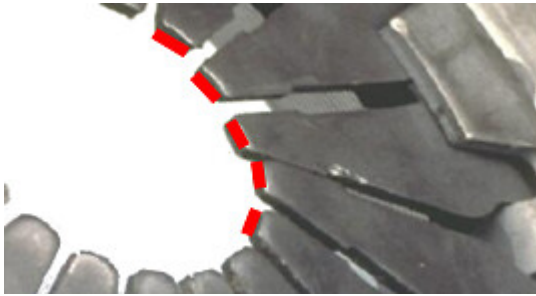
Discomfort during startup / Bad speed changeover

ANOMALY OBSERVED

The cover is deformed and the lifting of the pressure plate is not uniform.

POSSIBLE CAUSE

- The cover are badly fitted on the flywheel. The tightening ins star sequence was not respected or the positioning on the centreing was not done correctly.



Rattle noises/ Bad speed changeover

ANOMALY OBSERVED

The diaphragm are not aligned due to a bad fitting process, this distortion generate a ball joint displacement of the release bearing

POSSIBLE CAUSE

- To tighten the cover correctly, each screws must me tighten in star sequence and the cover must me approach smoothly on the flywheel to avoid a deformation.



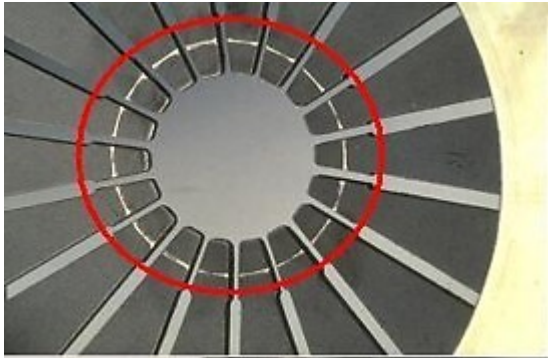
Rattle noises

ANOMALY OBSERVED

The deformation of return springs causes improper release of the friction disc, causing it to remain in contact with the flywheel and the pressure plate

POSSIBLE CAUSE

- Cover fall off during installation.
- Fasten the cover assembly when it is correctly centred with the centering pins
- It can also occur when starting the engine by pulling or pushing the vehicle in a too low a speed , or with an incorrect gear change



Bad speed changeover

ANOMALY OBSERVED

Interference between the diaphragm and the drive plate

POSSIBLE CAUSE

- The interference between the inside of the diaphragm and the friction is the consequence of an excessive displacement of the clutch bearing.

Impossibility of speed changing

ANOMALY OBSERVED

This breakage is caused by an abnormally high operating temperature caused by prolonged gear slipping (the two linings are burned).

POSSIBLE CAUSE

- Bad return of the bearing
- Blocking of the self adjusting cable
- Presence of the driver foot on the pedal

Rattle Noises

ANOMALY OBSERVED

The deterioration of the diaphragm fingers is concurrent with a lack of pre-load that generated the wear of the fingers.

POSSIBLE CAUSE

- Check the clutch release system
- Check the guiding tube surface
- Check the clutch fork.
- Check that the push rod at the receiver cylinder can move smoothly when it is pushed and that no oil leaks from it.





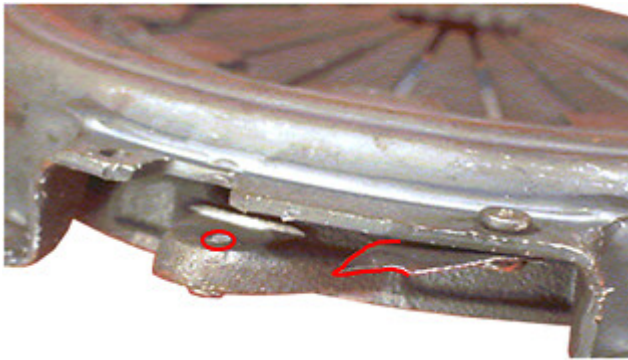
Impossibility of speed changing

ANOMALY OBSERVED

The diaphragm fingers are broken

POSSIBLE CAUSE

- The excessive travel of the bearing during the disengaging phase is the cause of the diaphragm breakage. The force applied on the diaphragm is higher than its mechanical resistance.



Impossibility of speed changing

ANOMALY OBSERVED

Return springs are destroyed

POSSIBLE CAUSE

- severe downshifting (i.e. from 5th to 2nd at 90 kph) and releasing the clutch abruptly.
- starting the engine by pulling or pushing the vehicle in a too low a speed (1st or 2nd)