MAY 1974

STARTER MOTOR (Continued)

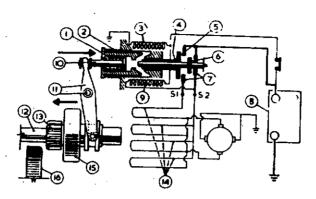


Fig. 54 - Explanation of two-stage switching

The solenoid is energised in the conventional manner to move the pinion towards the gear ring on the engine flywheel.

lEngagement spring

- 2 Return spring
- 3 Solenoid hold-on winding
- 4 Switch operating spindles (concentric)
- 5 First switch contacts
- 6 Second switch contacts
- 7 Fixed contacts
- 8 Battery

- 9 Solenoid operating winding
- 10 Punger
- 11 Operating lever and pivot
- 12 Armature shaft
- 13 Pinion
- 14 Field system: Four field coils in parallel
- 15 Roller clutch
- 16 Gear ring

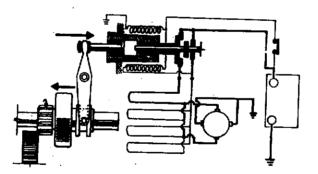


Fig. 55

If tooth-to-tooth abutment occurs, the first set of solenoid contacts close and energise one field coil only, thus giving low power indexing to move the pinion teeth into a meshing position.

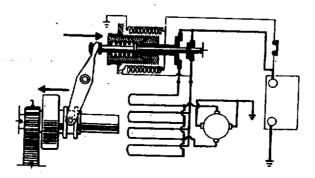


Fig. 56