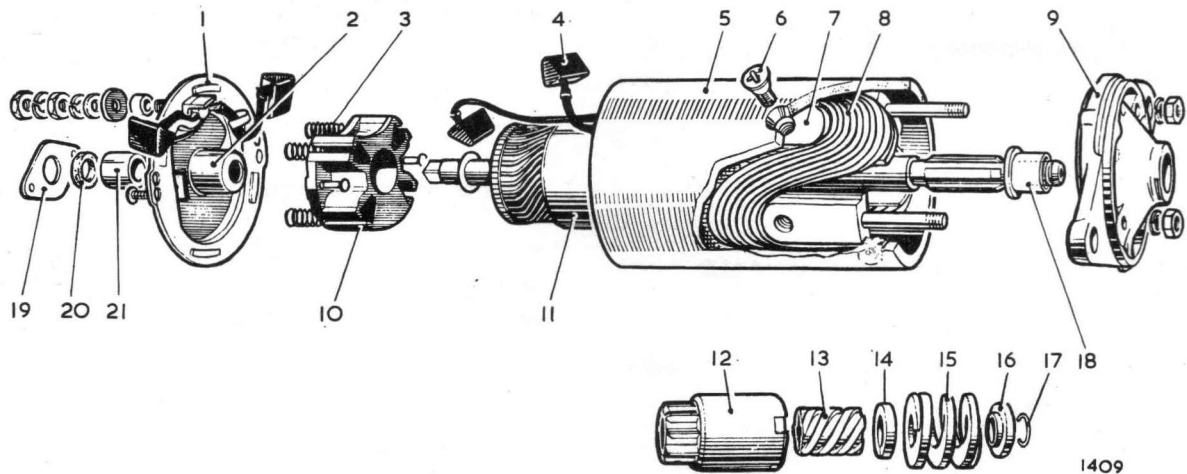


# STARTER MOTOR

## LUCAS M35J



- |                           |                       |
|---------------------------|-----------------------|
| 1. COMMUTATOR END BRACKET | 12. PINION AND BARREL |
| 2. BUSH HOUSING           | 13. SCREWED SLEEVE    |
| 3. BRUSH SPRINGS          | 14. BUFFER WASHER     |
| 4. BRUSHES                | 15. MAIN SPRING       |
| 5. YOKE                   | 16. CUP SPRING        |
| 6. POLE SCREW             | 17. JUMP RING         |
| 7. POLE SHOE              | 18. BEARING BUSH      |
| 8. FIELD COILS            | 19. BUSH COVER        |
| 9. DRIVE END BRACKETS     | 20. FELT WASHER       |
| 10. BRUSH BOX MOULDING    | 21. BEARING BUSH      |
| 11. ARMATURE              |                       |

Fig. 47. Starter motor—exploded view

### DESCRIPTION

The starter motor is a four pole, four brush, series machine of non ventilated design and windowless yoke. The armature shaft is supported in a self lubricating bronze bush in each end bracket.

The face type commutator is of moulded construction, mounted on the end of the armature. The brushes are mounted axially, located in a plastic brush box riveted to the commutator end bracket.

One end of the series field winding is earthed to the yoke by a riveted connection, and the other end is connected to two of the brushes. The other two brushes are connected to the insulated supply terminal on the commutator end bracket.

The inertia engaged drive assembly is an inboard type, located on the end of the armature shaft. The pinion and barrel is selectively mated to the screwed sleeve, and these parts must be considered as an assembly.