Cranking System
Chapter 17

ACROSS

3 Inside the field coils is an ________ that is supported with either bushings or ball bearings at both ends, which permit it to rotate.
5 A ________ uses permanent magnets that maintain constant field strength, the same as a shunt-type motor, so they have similar operating characteristics.
8 One end of the field housing is called the _______ _______.
9 Another name for the pole shoes is ________.
11 Another name for the commutator-end housing is the _______ _______.
12 Current that works against battery voltage is called _______.
14 A small current switch operates a ________ or relay that controls the high current to the starter.
15 One end of the field housing is called the _______ _______.

DOWN

1 The ________ uses a small pinion gear that contacts the engine flywheel gear teeth and transmits starter motor power to rotate the engine.
2 These magnets, when energized, create strong magnetic fields inside the starter housing and, therefore, are called ________.
4 _________ hold the three components of the starter together.
6 The ends of the copper armature windings are soldered to ________.
7 A starter consists of the main structural support of a starter called the main ________.
10 The soft-iron cores are called ________.
13 _____ is a system that allows the driver to start the engine of the vehicle from inside the house or a building at a distance of about 200 ft.