

19. ELECTRIC STARTER

SYSTEM DIAGRAM	19-0	STARTER MOTOR	19-4
SERVICE INFORMATION	19-1	STARTER RELAY SWITCH	19-10
TROUBLESHOOTING	19-2	CLUTCH/NEUTRAL DIODE	19-11

SERVICE INFORMATION

GENERAL

▲ WARNING

Always turn the ignition switch OFF before servicing the starter motor. The motor could suddenly start, causing serious injury.

- The starter motor can be serviced with the engine in the frame.
- When checking the starter system, always follow the steps in the troubleshooting flow chart (page 19-2).
- A weak battery may be unable to turn the starter motor quickly enough, or supply adequate ignition current.
- If the current is kept flowing through the starter motor to turn it while the engine is not cranking over, the starter motor may be damaged.
- Refer to page 9-4 for starter clutch servicing.
- Refer to section 20 for following components:
 - Ignition switch
 - Starter switch
 - Neutral switch
 - Clutch switch

SPECIFICATION

Unit: mm (in)

ITEM	STANDARD	SERVICE LIMIT
Starter motor brush length	10.00 – 10.05 (0.393 – 0.396)	3.5 (0.14)