01-19 STARTING SYSTEM

STARTER REMOVAL/INSTALLATIO	N . 01–19–1	STARTER INTERLOCK SWITCH INSPECTION			
STARTER INSPECTION	01–19–2	(MTX)	01-19-2		
On-Vehicle Inspection	01–19–2	On-vehicle Inspection	01-19-2		
No Load Test	01–19–2	Continuity Inspection	01–19–2		

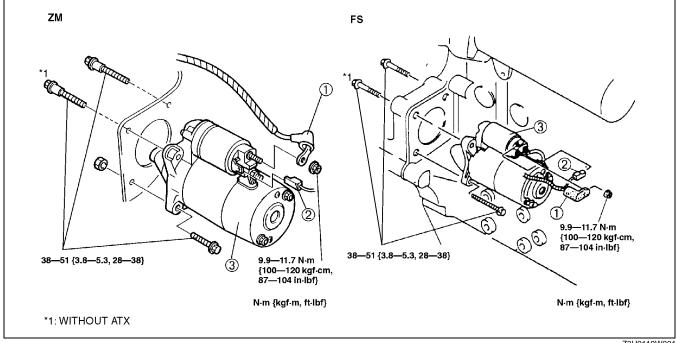
01-19

STARTER REMOVAL/INSTALLATION

A3U011918400W01

Warning

- . When the battery cables are connected, touching the vehicle body with starter terminal B will generate sparks. This can cause personal injury, fire, and damage to the electrical components. Always disconnect the battery before performing the following operation.
- 1. Disconnect the negative battery cable.
- 2. Remove the battery.
- 3. Remove the intake manifold bracket.
- 4. Remove in the order indicated in the table.
- 5. Install in the reverse order of removal.



Z3U0119W001

1	Terminal B wire	3	Starter
2	Terminal S wire	•	

STARTING SYSTEM

STARTER INSPECTION A3U011918400W02

On-Vehicle Inspection

- 1. Verify that the battery is fully charged.
- 2. Crank the engine and verify that the starter rotates smoothly without any noise.
- 3. Measure the voltage at terminals S and B when the ignition switch is at START position.
 - If the voltage is within the specification, remove the starter and inspect the magnetic switch and the starter.
 - If the voltage is not as specified, inspect the wiring harness, ignition switch, starter interlock switch (MTX), and transaxle range switch (ATX).

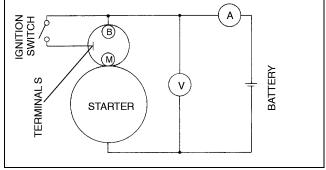
Specification Above 8 V

No Load Test

- 1. Verify that the battery is fully charged.
- 2. Connect the starter, battery, voltmeter and ammeter as shown.
- 3. Operate the starter and verify that it rotates smoothly.
- 4. Measure the voltage and current while the starter is operating.
 - If not as specified, repair or replace the starter as necessary.

Specification Voltage: 11 V

Current: below 90 A



X3U119WA2

A3U011943440W01

STARTER INTERLOCK SWITCH INSPECTION (MTX)

On-vehicle Inspection

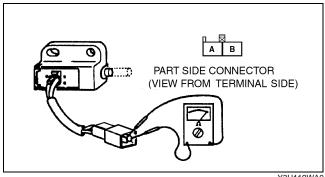
- 1. With the clutch pedal not depressed, verify that the engine does not start.
- 2. With the clutch pedal fully depressed, verify that the engine starts.
- If the above cannot be verified, carry out continuity inspection.

Continuity Inspection

- 1. Disconnect the starter interlock switch connector.
- 2. Inspect for continuity between terminals of the starter interlock switch using an ohmmeter.
 - If not as specified, replace the starter interlock switch.

	O—O : Continuity		
Condition	Terminal		
Condition	Α	В	
Clutch pedal not depressed			
Clutch pedal depressed	0-		

X3U119WA3



Y3U119WA0