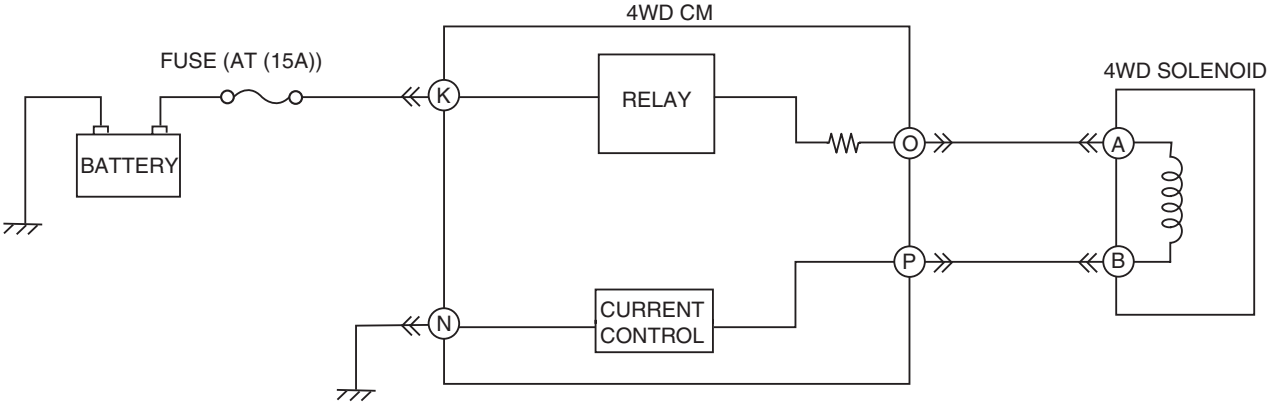
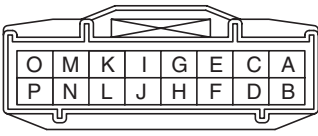





DTC P1887:11/P1887:12/P1887:13/P1887:14

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DTC P1887:11	4WD solenoid circuit
DTC P1887:12	
DTC P1887:13	
DTC P1887:14	
DETECTION CONDITION	<ul style="list-style-type: none"> • P1887:11 <ul style="list-style-type: none"> — Short circuit to ground is detected in 4WD solenoid circuit • P1887:12 <ul style="list-style-type: none"> — Short to battery is detected in 4WD solenoid circuit • P1887:13 <ul style="list-style-type: none"> — Open circuit is detected in 4WD solenoid circuit • P1887:14 <ul style="list-style-type: none"> — Open circuit or short to ground is detected in power supply circuit
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> • Control disabled. • 4WD warning light: Illuminated
POSSIBLE CAUSE	<ul style="list-style-type: none"> • 4WD solenoid malfunction • Open circuit or short to ground between 4WD CM terminal O and 4WD solenoid terminal A • Open circuit or short to ground between 4WD CM terminal P and 4WD solenoid terminal B • Open circuit or short to ground in harness between battery and 4WD CM terminal K • Open circuit between 4WD CM terminal N and body ground • Open or short circuit in 4WD CM internal circuit • AT (15A) fuse malfunction • 4WD CM malfunction • Poor connection of connectors (female terminals)
 <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>4WD CM CONNECTOR</p>   </div> <div style="text-align: center;"> <p>4WD SOLENOID CONNECTOR</p>   </div> </div>	

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT 4WD SOLENOID CONDITION <ul style="list-style-type: none"> • Switch the ignition to OFF. • Disconnect 4WD solenoid connector. • Inspect 4WD solenoid. (See 4WD SOLENOID INSPECTION.) • Is 4WD solenoid normal? 	Yes	Go to next step.
		No	Replace 4WD solenoid, then go to Step 8.

STEP	INSPECTION	ACTION	
2	INSPECT 4WD SOLENOID TO 4WD CM (POWER SUPPLY CIRCUIT) FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Disconnect 4WD CM connector. • Inspect for continuity between 4WD CM terminal O and 4WD solenoid terminal A. • Is there continuity? 	Yes	Go to next step.
		No	Repair or replace harness for open circuit between 4WD CM and 4WD solenoid, then go to Step 8.
3	INSPECT 4WD SOLENOID TO 4WD CM (POWER SUPPLY CIRCUIT) FOR SHORT TO GROUND <ul style="list-style-type: none"> • Inspect for continuity between 4WD CM terminal O and ground. • Is there continuity? 	Yes	Repair or replace harness for short to ground between 4WD CM and 4WD solenoid, then go to Step 8.
		No	Go to next step.
4	INSPECT 4WD SOLENOID TO 4WD CM (GROUND CIRCUIT) FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Inspect for continuity between 4WD CM terminal P and 4WD solenoid terminal B. • Is there continuity? 	Yes	Go to next step.
		No	Repair or replace harness for open circuit between 4WD CM and 4WD solenoid, then go to Step 8.
5	INSPECT 4WD SOLENOID TO 4WD CM (GROUND CIRCUIT) FOR SHORT TO GROUND <ul style="list-style-type: none"> • Inspect for continuity between 4WD CM terminal P and ground. • Is there continuity? 	Yes	Repair or replace harness for short to ground between 4WD CM and 4WD solenoid, then go to Step 8.
		No	Go to next step.
6	INSPECT 4WD CM POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Measure voltage between 4WD CM terminal K and ground. • Is voltage B+? 	Yes	Replace 4WD CM, then go to Step 8.
		No	Repair or replace harness for open circuit between 4WD CM and 4WD solenoid, then go to next step.
7	INSPECT FUSE CONDITION <ul style="list-style-type: none"> • Turn ignition key to OFF. • Is AT (15A) fuse normal? 	Yes	Go to next step.
		No	Replace fuse, then go to Step 9.
8	VERIFY TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> • Make sure to reconnect all disconnected connectors. • Clear DTC from memory. (See ELECTRONIC 4WD CONTROL SYSTEM ON-BOARD DIAGNOSIS.) • Drive vehicle. • Is the same DTC present? 	Yes	Replace 4WD CM, then go to next step.
		No	Go to next step.
9	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> • Is there any other DTC present? 	Yes	Go to applicable DTC inspection.
		No	Troubleshooting completed.