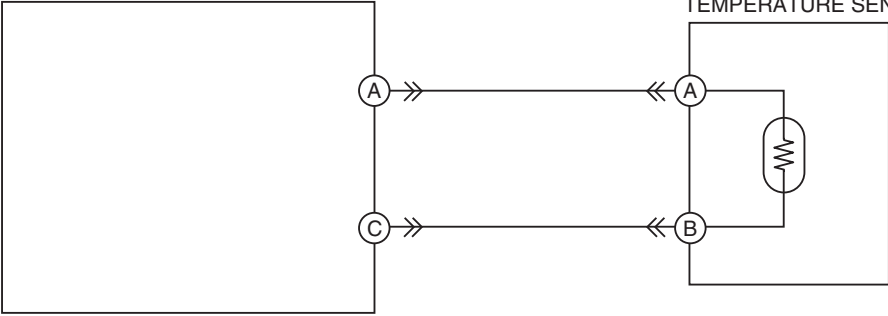
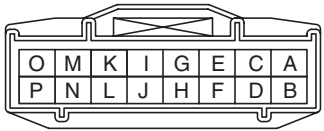

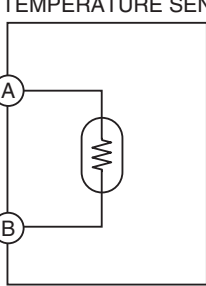




DTC P1888:11	Differential oil temperature sensor circuit
DTC P1888:15	
DETECTION CONDITION	<ul style="list-style-type: none"> • P1888:11 <ul style="list-style-type: none"> — Short to ground is detected in differential oil temperature sensor circuit • P1888:15 <ul style="list-style-type: none"> — Short to battery or open circuit is detected in differential oil temperature sensor circuit
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> • Control disabled. • 4WD warning light: Illuminated
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Differential oil temperature sensor malfunction • Open circuit, or short to power or ground between 4WD CM terminal A and differential oil temperature sensor terminal A • Open circuit or short to power between 4WD CM terminal C and differential oil temperature sensor terminal B • 4WD CM malfunction • Poor connection of connectors (female terminals)
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>4WD CM</p>  <p>4WD CM CONNECTOR</p>   </div> <div style="text-align: center;"> <p>DIFFERENTIAL OIL TEMPERATURE SENSOR</p>  <p>DIFFERENTIAL OIL TEMPERATURE SENSOR CONNECTOR</p>   </div> </div>	

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	INSPECT DIFFERENTIAL OIL TEMPERATURE SENSOR CONDITION <ul style="list-style-type: none"> • Disconnect differential oil temperature sensor connector. • Inspect the differential oil temperature sensor. (See DIFFERENTIAL OIL TEMPERATURE SENSOR INSPECTION.) • Is the differential oil temperature sensor normal? 	Yes	Go to next step.
		No	Replace differential oil temperature sensor, then go to Step 7.
2	INSPECT 4WD CM TO DIFFERENTIAL OIL TEMPERATURE SENSOR FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Disconnect 4WD CM connector. • Inspect for continuity between 4WD CM terminal A and differential oil temperature sensor terminal A. • Is there continuity? 	Yes	Go to next step.
		No	Repair or replace harness for open circuit between 4WD CM and differential oil temperature sensor, then go to Step 7.

STEP	INSPECTION	ACTION	
3	INSPECT 4WD CM TO DIFFERENTIAL OIL TEMPERATURE SENSOR FOR SHORT TO POWER <ul style="list-style-type: none"> Inspect voltage between 4WD CM terminal A and ground. Is voltage B+? 	Yes	Repair or replace harness for short to power between 4WD CM and differential oil temperature sensor, then go to Step 7.
		No	Go to next step.
4	INSPECT 4WD CM TO DIFFERENTIAL OIL TEMPERATURE SENSOR FOR SHORT TO GROUND <ul style="list-style-type: none"> Inspect for continuity between 4WD CM terminal A and ground. Is there continuity? 	Yes	Repair or replace harness for short to ground between 4WD CM and differential oil temperature sensor, then go to Step 7.
		No	Go to next step.
5	INSPECT 4WD CM TO DIFFERENTIAL OIL TEMPERATURE SENSOR FOR OPEN CIRCUIT <ul style="list-style-type: none"> Inspect for continuity between 4WD CM terminal C and differential oil temperature sensor terminal B. Is there continuity? 	Yes	Go to next step.
		No	Repair or replace harness for open circuit between 4WD CM and differential oil temperature sensor, then go to Step 7.
6	INSPECT 4WD CM TO DIFFERENTIAL OIL TEMPERATURE SENSOR FOR SHORT TO POWER <ul style="list-style-type: none"> Inspect voltage between 4WD CM terminal C and ground. Is voltage B+? 	Yes	Repair or replace harness for short to power between 4WD CM and differential oil temperature sensor, then go to next step.
		No	Go to next step.
7	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.
8	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.