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### AUTOMATIC TRANSMISSION CONTROL SYSTEM WIRING DIAGRAM

A5U050301026W01



## FOREWORD

- When the customer reports a vehicle malfunction, check the malfunction indicator lamp (MIL) indication, O/D OFF indicator light flash, and diagnostic trouble code (DTC), then diagnose the malfunction according to following flowchart.
  - If a DTC exists, diagnose the applicable DTC inspection. (See 05–02–5 DTC TABLE.)
  - If no DTC exists, MIL does not illuminate, and O/D OFF indicator light flash, diagnose the applicable symptom troubleshooting. (See 05–03–4 AUTOMATIC TRANSMISSION SYMPTOM TROUBLESHOOTING.)



\*: Malfunction Indicator Lamp (MIL), O/D OFF indicator light

## AUTOMATIC TRANSMISSION BASIC INSPECTION

A5U050301026W03

STEP	INSPECTION		ACTION
1	<ul> <li>Connect WDS or equivalent to data link connector-2.</li> </ul>	Yes	No diagnostic trouble code is displayed: Go to next step.
	<ul> <li>Turn ignition switch to ON.</li> <li>Retrieve any diagnostic trouble code.</li> <li>Is "PASSED" displayed?</li> </ul>	No	<ul> <li>Diagnostic trouble code is displayed:</li> <li>Go to appropriate diagnostic trouble code test.</li> <li>If communication error message is displayed on WDS or equivalent, inspect for following:</li> <li>Open circuit between main relay and PCM terminal B</li> <li>Open main relay ground circuit</li> <li>Main relay stuck open.</li> <li>Open or poor ground circuit (PCM terminal 3A, 3B or 4A).</li> <li>Poor connection of vehicle body ground.</li> </ul>
2	Turn ignition switch to ON.	Yes	Go to next step.
	<ul> <li>Does O/D OFF indicator light (illuminate/go out) correspond to O/D OFF switch position (ON/OFF)?</li> </ul>	No	Go to symptom troubleshooting No.25 "O/D OFF INDICATOR LIGHT DOES NOT ILLUMINATE WHEN O/D OFF SWITCH IS TURNED ON" or No.26 "O/D OFF INDICATOR LIGHT ILLUMINATES WHEN O/D OFF SWITCH IS NOT TURNED ON".
3	Inspect ATF color and condition.	Yes	Go to next step.
	<ul> <li>(See 05–13–8 ATF Condition Inspection)</li> <li>Are ATF color, odor and level okay?</li> </ul>	No	<ul> <li>Repair or replace any defective parts according to inspection result.</li> <li>Flush automatic transmission and cooler line if necessary.</li> </ul>

# 05–03–3

STEP	INSPECTION	ACTION	
4	Perform line pressure test.	Yes	Go to next step.
	<ul><li>(See 05–13–5 Line Pressure Test)</li><li>Is line pressure okay?</li></ul>	No	<ul> <li>Adjust throttle cable if necessary. (See 05–13–10 THROTTLE CABLE ADJUSTMENT)</li> <li>Repair or replace any defective parts according to inspection result.</li> </ul>
5	Perform stall test.	Yes	Go to next step.
	<ul><li>(See 05–13–6 Stall Test)</li><li>Is stall speed okay?</li></ul>	No	Repair or replace any defective parts according to inspection result.
6	<ul><li>Turn ignition switch off.</li><li>Disconnect TCM connector.</li></ul>	Yes	<ul><li>Reconnect TCM connector.</li><li>Go to next step.</li></ul>
	<ul><li>Inspect for continuity between TCM connector terminal AP and ground.</li><li>Is there continuity?</li></ul>	No	<ul> <li>Inspect ground condition.</li> <li>Repair or replace ground circuit if necessary.</li> </ul>
7	<ul><li>Access TCM.</li><li>Inspect voltage at following TCM connector</li></ul>	Yes	Go to appropriate symptom troubleshooting and follow procedures.
	<ul> <li>terminals:</li> <li>(See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION)</li> <li>Throttle position sensor signal (terminal U)</li> <li>Output speed sensor signal (terminals AF and AE)</li> <li>Input/turbine speed sensor signal (terminals W and Z)</li> <li>R position signal (terminal D)</li> <li>N position signal (terminal F)</li> <li>D range signal (terminal C)</li> <li>2 range signal (terminal B)</li> <li>1 range signal (terminal A)</li> <li>Are all terminal voltages okay?</li> </ul>	No	<ul> <li>Inspect following, then go to appropriate symptom troubleshooting and follow procedures:         Throttle position sensor:             <ul></ul></li></ul>

## AUTOMATIC TRANSMISSION SYMPTOM TROUBLESHOOTING

### **Diagnostic Index**

• Use the chart below to verify the symptoms of the trouble in order to diagnose the appropriate area.

A5U050301026W04

No.	TROUBLESHOOTING ITEM	DESCRIPTION	PAGE
1	<ul> <li>Vehicle does not move in D, 2, 1 ranges, or in R position</li> </ul>	Vehicle does not move when accelerator pedal is depressed.	(See 05–03–9 NO.1 VEHICLE DOES NOT MOVE IN D, 2, 1 RANGES, OR IN R POSITION)
2	Vehicle moves in N position	<ul> <li>Vehicle creeps in N position.</li> <li>Vehicle creeps if brake pedal is not depressed in N position.</li> </ul>	(See 05–03–10 NO.2 VEHICLE MOVES IN N POSITION)
3	<ul> <li>Vehicle moves in P position, or parking gear does not disengage when P is disengaged</li> </ul>	<ul> <li>Vehicle rolls when on a downward slope and tires do not lock in P position.</li> <li>Tires are locked when P is disengaged, vehicle does not move in D, 2, 1 ranges, and R position when accelerator pedal is depressed, and engine remains in stall condition.</li> </ul>	(See 05–03–10 NO.3 VEHICLE MOVES IN P POSITION, OR PARKING GEAR DOES NOT DISENGAGE WHEN P IS DISENGAGED)
4	Excessive creep	<ul> <li>Vehicle accelerates in D, 2, 1 ranges, and R position without depressing accelerator pedal.</li> </ul>	(See 05–03–10 NO.4 EXCESSIVE CREEP)
5	No creep at all	<ul> <li>Vehicle does not move in D, 2, 1 ranges, or R position when idling on flat paved road.</li> </ul>	(See 05–03–11 NO.5 NO CREEP AT ALL)

No.	TROUBLESHOOTING ITEM	DESCRIPTION	PAGE
6	Low maximum speed and poor acceleration	<ul> <li>Vehicle acceleration is poor at start.</li> <li>Delayed acceleration when accelerator is depressed while driving.</li> </ul>	(See 05–03–12 NO.6 LOW MAXIMUM SPEED AND POOR ACCELERATION)
7	No shift	<ul><li>Single shift range only.</li><li>Sometimes shifts correctly.</li></ul>	(See 05–03–13 NO.7 NO SHIFT)
8	No TCC function	<ul> <li>TCC does not operate even though vehicle speed is increased.</li> </ul>	(See 05–03–14 NO.8 NO TCC FUNCTION)
9	Abnormal shift	• Shifts incorrectly (incorrect shift pattern).	(See 05–03–15 NO.9 ABNORMAL SHIFT)
10	Frequent shifting	<ul> <li>Downshifting occurs immediately even when accelerator pedal is depressed slightly in D, 2, 1 ranges (O/D OFF switch is off).</li> </ul>	(See 05–03–16 NO.10 FREQUENT SHIFTING)
11	Shift point is high or low	<ul> <li>Shift point is considerably different from automatic shift diagram.</li> <li>Shift is delayed when accelerating.</li> <li>Shift occurs quickly when accelerating and engine speed does not increase.</li> </ul>	(See 05–03–17 NO.11 SHIFT POINT IS HIGH OR LOW)
12	No kickdown	<ul> <li>Does not downshift when accelerator pedal is fully depressed within kickdown range.</li> </ul>	(See 05–03–17 NO.12 NO KICKDOWN)
13	<ul> <li>Engine flares up or slips when upshifting or downshifting</li> </ul>	<ul> <li>When accelerator pedal is depressed for driveway, engine speed increases but vehicle speed increase slowly.</li> <li>When accelerator pedal is depressed while driving, engine speed increases but vehicle speed does not increase.</li> </ul>	(See 05–03–17 NO.13 ENGINE FLARES UP OR SLIPS WHEN UPSHIFTING OR DOWNSHIFTING)
14	<ul> <li>Engine flares up or slips when accelerating vehicle</li> </ul>	<ul> <li>Engine flares up when accelerator pedal is depressed for upshifting.</li> <li>Engine flares up suddenly when accelerator pedal is depressed for downshifting.</li> </ul>	(See 05–03–18 NO.14 ENGINE FLARES UP OR SLIPS WHEN ACCELERATING VEHICLE)
15	Judder upon TCC operation	<ul> <li>Vehicle jolts when TCC is engaged.</li> </ul>	(See 05–03–18 NO.15 JUDDER UPON TCC OPERATION)
16	<ul> <li>Excessive N to D or N to R position/range shift shock</li> </ul>	<ul> <li>Strong shock is felt when shifting from N to D or N to R position/range at idle.</li> </ul>	(See 05–03–19 NO.16 EXCESSIVE N TO D OR N TO R POSITION/RANGE SHIFT SHOCK)
17	<ul> <li>Excessive shift shock when upshifting and downshifting</li> </ul>	<ul> <li>Excessive shift shock is felt when depressing accelerator pedal to accelerate at upshifting.</li> <li>During cruising, excessive shift shock is felt when depressing accelerator pedal at downshifting.</li> </ul>	(See 05–03–20 NO.17 EXCESSIVE SHIFT SHOCK WHEN UPSHIFTING AND DOWNSHIFTING)
18	Excessive TCC shift shock	<ul> <li>Strong shock is felt when torque converter clutch is engaged.</li> </ul>	(See 05–03–21 NO.18 EXCESSIVE TCC SHIFT SHOCK)
19	<ul> <li>Noise at idle when vehicle is stopped in all position/ranges</li> </ul>	<ul> <li>Transmission is noisy in all positions and ranges when vehicle is idling.</li> </ul>	(See 05–03–21 NO.19 NOISE AT IDLE WHEN VEHICLE IS STOPPED IN ALL POSITION/ RANGES)
20	<ul> <li>Noise at idle when vehicle is stopped in D, 2, 1 ranges, or in R position</li> </ul>	<ul> <li>Transmission is noisy in driving ranges when vehicle is idling.</li> </ul>	(See 05–03–22 NO.20 NOISE AT IDLE WHEN VEHICLE IS STOPPED IN D, 2, 1 RANGES OR IN R POSITION)
21	No engine braking in 1,2, or 3 gear	<ul> <li>Engine speed drops to idle but vehicle coasts when accelerator pedal is released during cruising at medium to high speeds.</li> <li>Engine speed drops to idle but vehicle coasts when accelerator pedal is released in 1 range at low vehicle speed.</li> </ul>	(See 05–03–22 NO.21 NO ENGINE BRAKING IN 1, 2, OR 3 GEAR)

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No.	TROUBLESHOOTING ITEM	DESCRIPTION	PAGE
22	Transmission overheats	<ul><li>Burnt smell is emitted from transmission.</li><li>Smoke is emitted from transmission.</li></ul>	(See 05–03–23 NO.22 TRANSMISSION OVERHEATS)
23	<ul> <li>Engine stalls when shifted to D, 2, 1 ranges, and/or in R position</li> </ul>	<ul> <li>Engine stalls when shifting from N or P position to D, 2, 1 ranges or R position at idle.</li> </ul>	(See 05–03–23 NO.23 ENGINE STALLS WHEN SHIFTED TO D, 2, 1 RANGES, AND/OR IN R POSITION)
24	<ul> <li>Engine stalls when driving at slow speeds or stopping</li> </ul>	<ul> <li>Engine stalls when brake pedal is depressed while driving at low speeds or stopping.</li> </ul>	(See 05–03–24 NO.24 ENGINE STALLS WHEN DRIVING AT SLOW SPEEDS OR STOPPING)
25	<ul> <li>O/D OFF indicator light does not illuminate when O/D OFF switch is turned on</li> </ul>	<ul> <li>O/D OFF indicator light in dashboard does not illuminate when O/D OFF switch is turned on and ignition switch is at ON.</li> </ul>	(See 05–03–24 NO.25 O/D OFF INDICATOR LIGHT DOES NOT ILLUMINATE WHEN O/D OFF SWITCH IS TURNED ON)
26	<ul> <li>O/D OFF indicator light illuminates when O/D OFF switch is not turned on</li> </ul>	<ul> <li>O/D OFF indicator light in dashboard illuminates even though O/D OFF switch is turned off and ignition switch is at ON.</li> </ul>	(See 05–03–25 NO.26 O/D OFF INDICATOR LIGHT ILLUMINATES WHEN O/D OFF SWITCH IS NOT TURNED ON)

## **Quick Diagnosis Chart**

1	Vehicle does not move in D, 2, 1 ranges, or in R position	x		×				×	×	×	×					×
2	Vehicle moves in N position	×		×				×	×	×	×					×
	Vehicle moves in P position, or parking gear does not															
3	disengage when P is disengaged	<b>^</b>														
4	Excessive creep			×	×	×										
5	No creep at all	×		×				×	×	x	×					×
6	Low maximum speed and poor acceleration			×		×	×	×	×	×	×	×	×			×
7	No shift			×				×	x	×	×	x	×			×
8	No TCC frunction			×			×	×	×	×	×	×	×	×	×	×
9	Abnormal shift	×		×			×	×	х	×	×					×
10	Frequent shifting			×				×	×	×	×					×
11	Shift point is high or low				×	×		×	×	×	×					×
12	No kickdown							×	×							×
13	Engine flares up or slips when upshifting or downshifting	×		×				×	×	×	×					×
14	Engine flares up or slips when accelerating vehicle	×		×				×	x	×	×					×
15	Judder upon TCC operation			×		×		×	×	×	×					
16	Excessive N to D or N to R position/range shift shock	1		×	×			×	×	×	×					
17	Excessive shift shock when upshifting and downshifting			×				×	×	×	×					·
18	Excessive TCC shift shock	1	t	×				×	×	×	×					
	Noise at idle when vehicle is stopped in all															
19	position/ranges							×	×							I
20	Noise at idle when vehicle is stopped in D, 2, 1															•
20	ranges, or in R position	×					×	×	x							I
21	No engine braking in 1, 2, or 3 gear	×		×			×	×	x	×	×	×	×			
22	Transmission overheats			×												
00	Engine stalls when shifted to D, 2, 1 ranges, and/or in R															
23	position			<u>^</u>		<u>^</u>										
24	Engine stalls when driving at slow speeds or stopping	1		×		×										
25	O/D OFF indicator light does not illuminate when O/D											v				I
	OFF switch is turned on															
26	O/D OFF indicator light illuminates when O/D OFF switch				•							x	×			
	is not turned on	<u> </u>	<u> </u>										L		L]	
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1	Vehicle does not move in D, 2, 1 ranges, or in R position	×	×		×					×	×	×		
2	Vehicle moves in N position	×	×		×						×			
3	Vehicle moves in P position, or parking gear does not disengage when P is disengaged										×			
4	Excessive creep												1	
5	No creep at all	×	×		×					×	×	×		
6	Low maximum speed and poor acceleration	×	×		×					×	×	×		
7	No shift	×	×		×					×	×			
8	No TCC function			×	×					×		×	$\square$	
9	Abnormal shift	×	×		×					×	×			
10	Frequent shifting				×					×				
11	Shift point is high or low													
12	No kickdown	×	×		×					×	×			
13	Engine flares up or slips when upshifting or downshifting	×	×		×					×				
14	Engine flares up or slips when accelerating vehicle	×	×		×					×				
15	Judder upon TCC operation			×	×							×	×	
16	Excessive N to D or N to R position/range shift shock				×			×		×	×			
17	Excessive shift shock when upshifting and downshifting	×	×		×	×	×			×	×		<b>—</b>	
18	Excessive TCC shift shock			×	×			-						
	Noise at idle when vehicle is stopped in all				-			-						
19	position/ranges	×	×									×		
20	Noise at idle when vehicle is stopped in D, 2, 1 ranges,											×		
01	or in H position										$\vdash$		$\vdash$	
	No engine braking in 1, 2 or 3 gear	-			<u> </u>					<u>^</u>				
22				×					Ĥ		×		Ĥ	
23	Engine stalls when shifted to D, 2, 1 ranges, and/or in R position			×	×								×	
24	Engine stalls when driving at slow speeds or stopping			×	×								×	
25	O/D OFF indicator light does not illuminate when O/D OFF switch is turned on													
26	O/D OFF indicator light illuminates when O/D OFF switch is not turned on													
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Diag	iagnostic trouble code					1	I	1	1	1	1	1	1	

### NO.1 VEHICLE DOES NOT MOVE IN D, 2, 1 RANGES, OR IN R POSITION

A5U050301026W05 1 Vehicle does not move in D, 2, 1 range, or in R position DESCRIPTION • Vehicle does not move when accelerator pedal is depressed If the vehicle does not move in D, 2, 1 ranges or R position, basically, the malfunction is in the • automatic transmission. (Vehicle will move even with a malfunction in the PCM.) Since a malfunction in the sensor circuit or output circuit is the cause of the malfunction in the automatic transmission, inspect the sensors, output circuit, and the related harnesses. 1. Clutch slippage, worn (D, 2, 1 ranges—Forward clutch, 4GR clutch, one-way clutch No.0, one-way clutch No.2, R position-Reverse brake, 4GR clutch, direct clutch, one-way clutch No.0) · Line pressure is low Sensor ground malfunction Shift solenoid A malfunction POSSIBLE Shift solenoid B malfunction CAUSE Body ground malfunction Control valve body malfunction 2. Selector lever malfunction 3. Parking mechanism not operating properly. 4. Torque converter malfunction Note

• Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.

#### **Diagnostic Procedure**

STEP	INSPECTION		ACTION
1	• With vehicle stopped on a flat road and engine	Yes	Go to next step.
	off, does vehicle move when pushed? (in D, 2 range or N, R position and brake released)	No	Inspect parking mechanism.
2	<ul> <li>Does vehicle move when selector lever is in</li> </ul>	Yes	Go to next step.
	between N position and D range?	No	Inspect and adjust the selector lever. (See 05–14–6 SELECTOR LEVER ADJUSTMENT.)
3	Turn ignition switch to ON.	Yes	Go to next step.
	<ul> <li>Inspect voltages between following TCM connector terminals and ground in D, 2 and 1 ranges.</li> <li>(See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION.)</li> <li>Specification         <ul> <li>TCM terminal AQ: B+</li> <li>TCM terminal AN: 0 V</li> </ul> </li> <li>Are voltages okay?</li> </ul>	No	<ul> <li>Inspect following:         <ul> <li>Body ground condition</li> <li>TCM connector terminals AS and AR voltage</li> <li>Specifications: B+</li> </ul> </li> </ul>
4	<ul> <li>Disconnect shift solenoid connector.</li> <li>Turn ignition switch to ON.</li> <li>Inspect voltages between each shift solenoid connector terminal and ground in D, 2 and 1 ranges.</li> <li>(See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION.)</li> <li>Specification         Terminal B: B+         Terminal A: 0 V     </li> </ul>	Yes	<ul> <li>Inspect shift solenoid terminal on automatic transmission for bending, damage, corrosion, or loose connection.</li> <li>Inspect for mechanically stuck shift solenoids. (See 05–13–18 Operating Inspection.)         <ul> <li>If shift solenoids are okay, overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul> </li> </ul>
	Are voltages okay?	INO	terminal and shift solenoid connector terminal.

Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

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### **NO.2 VEHICLE MOVES IN N POSITION**

A5U050301026W06

2	Vehicle moves in N position							
DESCRIPTION         • Vehicle creeps in N position.           • Vehicle creeps if brake pedal is not depressed in N position								
POSSIBLE CAUSE	<ul> <li>If the vehicle moves in N position, basically, the malfunction is in the automatic transmission. Since a malfunction in the sensor circuit or output circuit is the cause of the malfunction in the automatic transmission, inspect the sensor, output circuit, and the related harnesses.</li> <li>Clutch is burned. (Move forward: Forward clutch, one-way clutch No.0, one-way clutch No.2, Move backward: Direct clutch, reverse brake, one-way clutch No.0)</li> <li>Line pressure is low</li> <li>Control valve body malfunction</li> <li>Selector lever position disparity</li> </ul>							
	<ul> <li>Note</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>							

### **Diagnostic Procedure**

STEP	INSPECTION		ACTION
1	<ul> <li>Does vehicle creep when selector lever is moved slightly in N position?</li> </ul>	Yes	<ul> <li>Overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>
		No	Inspect and adjust selector lever. (See 05–14–6 SELECTOR LEVER ADJUSTMENT)

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.3 VEHICLE MOVES IN P POSITION, OR PARKING GEAR DOES NOT DISENGAGE WHEN P IS DISENGAGED

	A50050501020W07
3	Vehicle moves in P position, or parking gear does not disengage when P is disengaged
DESCRIPTION	<ul> <li>Vehicle rolls when on a downward slope and tires do not lock in P position</li> <li>Tires are locked when P is disengaged, vehicle does not move in D, 2, 1 ranges, or R position when accelerator pedal is depressed, and engine remains in stall condition</li> </ul>
POSSIBLE CAUSE	<ol> <li>Parking mechanism (May have effect on noise or shock from transmission) malfunction</li> <li>Improper adjustment of selector lever</li> <li>If vehicle moves in N position, perform No.2 "VEHICLE MOVES IN N POSITION".</li> <li>Note         <ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul> </li> </ol>

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.4 EXCESSIVE CREEP

	A5U050301026W08
4	Excessive creep
DESCRIPTION	• Vehicle accelerates in D, 2, 1 ranges, and R position without depressing accelerator pedal.
POSSIBLE CAUSE	<ol> <li>Engine idle speed is high (transmission system is not cause of problem)</li> <li>Go to No.8 "NO TCC FUNCTION." (See 01–02A–13 DTC TABLE)</li> <li>Note         <ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul> </li> </ol>

### Note



## **NO.5 NO CREEP AT ALL**

	A5U050301026W09
5	No creep at all
DESCRIPTION	Vehicle does not move in D, 2, 1 ranges, or R position when idling on a flat paved road
POSSIBLE CAUSE	<ul> <li>Either the transmission is stuck in 3GR or 4GR position, or there is clutch circuit slippage because the direct clutch is stuck.</li> <li>Clutch is burned <ul> <li>Line pressure is low.</li> <li>Shift solenoid A malfunction</li> <li>Shift solenoid B malfunction</li> <li>Body ground malfunction</li> <li>Control valve body malfunction</li> </ul> </li> <li>Transmission is fixed in 3GR or 4GR (Operation of fail-safe function)</li> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Malfunction of the electronic parts of output and input system</li> </ul> <li>Insufficient starting torque <ul> <li>Torque converter malfunction</li> </ul> </li>
	<ul> <li>Note</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>

### **Diagnostic Procedure**

STEP	INSPECTION		ACTION
1	Does vehicle creep in any range/position	Yes	Go to next step.
	except for P and N positions?	No	Inspect or adjust the selector lever. (See 05–14–6 SELECTOR LEVER ADJUSTMENT.)
2	Turn ignition switch to ON.	Yes	Go to next step.
	<ul> <li>Inspect voltages between following TCM connector terminals and ground in D range. (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION.)</li> <li>Specification         <ul> <li>TCM terminal AQ: B+</li> <li>TCM terminal AN: 0 V</li> </ul> </li> <li>Are voltages okay?</li> </ul>	No	<ul> <li>Inspect following:         <ul> <li>Body ground condition</li> <li>TCM terminals AS and AR voltages:</li> <li>Specifications: B+</li> </ul> </li> </ul>
3	<ul> <li>Disconnect shift solenoid connector.</li> <li>Turn ignition switch to ON.</li> <li>Inspect voltages between each shift solenoid connector terminal and ground in D range: Specification</li> </ul>	Yes	<ul> <li>Inspect shift solenoid terminal for bending damage, corrosion, or loose connection.</li> <li>Inspect for mechanically stuck shift solenoids. (See 05–13–18 Operating Inspection.) <ul> <li>If shift solenoids are okay, go to next step.</li> </ul> </li> </ul>
	Terminal B: B+ Terminal A: 0 V • Are voltages okay?	No	Inspect for open or short circuit between TCM connector terminal and shift solenoid connector terminal.
4	Overhaul control valve body and repair or	Yes	AT is now normal.
	<ul><li>replace any defective parts.</li><li>Is problem eliminated?</li></ul>	No	<ul> <li>Replace torque converter.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>

Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

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A5U050301026W10

## NO.6 LOW MAXIMUM SPEED AND POOR ACCELERATION

6	Low maximum speed and poor acceleration					
DESCRIPTION	<ul> <li>IPTION</li> <li>Vehicle acceleration is poor at start</li> <li>Delayed acceleration when accelerator is depressed while driving</li> </ul>					
POSSIBLE CAUSE	<ul> <li>If the clutch is stuck or gear is fixed in 3GR or 4GR, the malfunction is in the engine circuit.         <ol> <li>Clutch slippage, burning</li> <li>Line pressure is low</li> <li>Throttle position sensor malfunction</li> <li>Output speed sensor malfunction</li> <li>Input/turbine speed sensor malfunction</li> <li>Sensor ground malfunction</li> <li>Shift solenoid A and/or B malfunction</li> <li>Body ground malfunction</li> <li>Control valve body malfunction</li> </ol> </li> <li>Transmission is fixed in 3GR or 4GR (Operation of fail-safe function)</li> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Malfunction of the electronic parts in output and input system</li> </ul> <li>Insufficient starting torque (Suspected when gear condition, shift control and engine circuit are normal)</li> <li>Torque converter (Poor operation, sticking) malfunction</li> <li>Engagement in TCC operation range (Operation of fail-safe function)</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li>					

STEP	INSPECTION		ACTION
1	Go to symptom troubleshooting No.11 "SHIFT	Yes	Go to next step.
	<ul> <li>(See 01–02A–13 DTC TABLE)</li> <li>Does engine control system okay?</li> </ul>	No	Repair or replace any defective parts according to inspection results.
2	<ul> <li>Disconnect shift solenoid connector.</li> </ul>	Yes	Go to next step.
	<ul> <li>Does vehicle operate as follows?</li> <li>D range—4GR (fixed)</li> <li>2 range—3GR (fixed)</li> <li>1 range—1GR (fixed)</li> <li>R position—Reverse</li> </ul>	No	<ul> <li>Overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>
3	<ul> <li>Connect shift solenoid connector.</li> </ul>	Yes	Go to next step.
	<ul> <li>Drive vehicle in D, 2, and 1 ranges (O/D OFF switch is off).</li> <li>Does vehicle start from stop in first gear?</li> </ul>	No	<ul> <li>Inspect voltage at TCM connector terminals AQ and AN in D, 2, and 1 ranges. (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION.)</li> <li>If not, inspect body ground condition and TCM terminal AS and AR voltage (B+).</li> <li>If okay, inspect shift solenoid terminals for bending, damage, corrosion, or loose connection.</li> <li>Specification TCM terminal AQ: B+ TCM terminal AN: 0 V</li> <li>Inspect for continuity between following wiring harness:</li> <li>Shift solenoid ground circuit</li> <li>TCM terminal AQ—Shift solenoid terminal B</li> <li>TCM terminal AN—Shift solenoid terminal A</li> </ul>

STEP	INSPECTION		ACTION
4	<ul> <li>Connect WDS or equivalent to data link connector-2.</li> <li>Access TP and VSS PIDs.</li> <li>Drive vehicle.</li> <li>Inspect following TCM connector terminal voltages at each shift point monitored by TP</li> </ul>	Yes No	<ul> <li>Replace torque converter.         <ul> <li>If problem remains, replace or overhaul automatic transmission and repair or replace any defective parts.</li> </ul> </li> <li>If no shift up from 1GR in D range:</li> </ul>
	<ul> <li>vortages at each shift point monitored by TP and VSS PIDs.</li> <li>(See 05–13–7 Typical Shift Diagram.)</li> <li>— 1GR <ul> <li>TCM terminal AQ: B+</li> <li>TCM terminal AN: 0 V</li> </ul> </li> <li>— 2GR <ul> <li>TCM terminal AQ: B+</li> <li>TCM terminal AQ: B+</li> <li>TCM terminal AN: B+</li> <li>— 3GR <ul> <li>TCM terminal AQ: 0 V</li> <li>TCM terminal AN: B+</li> </ul> </li> </ul></li></ul>		<ul> <li>Inspect output speed sensor and related wiring harness.</li> <li>If shifts up from 1GR to 4GR in D range:         <ul> <li>Inspect shift solenoid B and related wiring harnesses.</li> </ul> </li> <li>For other results:         <ul> <li>Inspect following TCM connector terminal voltages while driving in suspect condition:                 <ul> <li>Throttle position sensor signal (TCM terminal U)</li> <li>Input/turbine speed sensor (TCM terminals W and Z)</li> <li>Output speed sensor (TCM terminals AE and AF)</li> <li>If okay, inspect shift solenoids</li> </ul> </li> </ul> </li> </ul>
	<ul> <li>TCM terminal AQ: 0 V</li> <li>TCM terminal AN: 0 V</li> <li>Are terminal voltages okay?</li> </ul>		

#### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

### **NO.7 NO SHIFT**

	A5U050301026W11
7	No shift
DESCRIPTION	<ul><li>Single shift range only</li><li>Sometimes shifts correctly</li></ul>
POSSIBLE CAUSE	<ul> <li>If the gear position is fixed in 3GR (in 2 range) or 4GR (in D range) due to the fail-safe operation, the malfunction is in the automatic transmission.</li> <li>Perform malfunction diagnosis according to No.6 "LOW MAXIMUM SPEED AND POOR ACCELERATION".</li> <li>Clutch is burned.</li> <li>Line pressure is low</li> <li>Malfunction of output speed sensor malfunction</li> <li>Note         <ul> <li>Fix 1GR in D and 2 ranges if there is malfunction in output speed sensor</li> <li>Input/turbine speed sensor malfunction</li> <li>Sensor ground (TCM AP—ground) malfunction</li> <li>Shift solenoid A malfunction</li> <li>Shift solenoid B malfunction</li> <li>Control valve body malfunction</li> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Disconnected shift solenoid connector</li> <li>Poor ground of shift solenoid bit solenoid</li> </ul> </li> </ul>
	Inspection have been conducted.

Fail-safe function						
Range		D ra	2 range	1 range		
Required gear position	1GR	2GR	3GR	4GR	2GR	1GR
Shift solenoid A malfunction	3GR	3GR	3GR	4GR	3GR	1GR
Shift solenoid B malfunction	1GR	4GR	4GR	4GR	3GR	1GR
Both shift solenoids A and B malfunction	4GR	4GR	4GR	4GR	3GR	1GR
Output speed sensor malfunction	1GR	1GR	1GR	1GR	1GR	2GR

#### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

### **NO.8 NO TCC FUNCTION**

	A5U050301026W
8	No TCC function
DESCRIPTION	TCC does not operate even though vehicle speed is increased.
POSSIBLE CAUSE	<ul> <li>TCC does not operate even though vehicle speed is increased.</li> <li>Basically, the TCC does not operate when the fail-safe is operating. Verify the diagnostic trouble code at first. If the TCC operates when driving at high speeds only, the malfunction (improper adjustment) is in the O/D OFF switch circuit or transmission range switch circuit.</li> <li>Caution <ul> <li>If the torque converter clutch or piston is stuck, inspect them. In addition, inspect the oil cooler for foreign particles which may have mixed in with the ATF.</li> </ul> </li> <li>1. TCC piston slippage, burn <ul> <li>Line pressure is low</li> <li>Throttle position sensor malfunction</li> <li>Engine coolant temperature sensor malfunction</li> <li>Sensor ground malfunction</li> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Sensor malfunction</li> <li>Stelector lever adjustment is incorrect</li> </ul> </li> <li>3. TCC control solenoid valve malfunction <ul> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Solenoid valve is stuck</li> </ul> </li> <li>4. O/D OFF switch malfunction</li> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Solenoid valve malfunction</li> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Solenoid valve malfunction</li> <li>Short or open circuit in wiring</li> <li>Poor connection of connector</li> <li>Solenoid valve malfunction</li> <li>Solenoid valve malfunction</li> <li>Solenoid valve malfunction</li> <li>Solenoid valve is stuck</li> <li>O/D OFF switch malfunction</li> <li>Torque converter malfunction</li> <li>Control valve body malfunction</li> </ul>
	Note  Before following the troubleshooting steps, make sure that the on-board diagnosis and basic increation have been conducted

STEP	INSPECTION		ACTION
1	• Drive vehicle in D range and inspect following:	Yes	Go to next step.
	<ul> <li>1-2 shift up and down</li> <li>2-3 shift up and down</li> <li>3-4 shift up and down</li> <li>Are all shift up and down possible?</li> </ul>	No	<ul> <li>No shift at all</li> <li>Go to symptom troubleshooting No.7 "NO SHIFT".</li> <li>No shift from 1GR in D rage</li> <li>Inspect output speed sensor.</li> <li>3GR and 4GR are only available in D range.</li> <li>Inspect shift solenoid A and related harness.</li> <li>4GR is only available in D range.</li> <li>Inspect both shift solenoids A and B.</li> <li>Inspect shift solenoid related wiring harness including shift solenoid ground.</li> <li>Abnormal shift</li> <li>Go to symptom troubleshooting No.9 "ABNORMAL SHIFT".</li> </ul>

STEP	INSPECTION	ACTION				
2	<ul> <li>2 Connect WDS or equivalent to data link connector-2.</li> <li>Access VSS and TP PIDs.</li> <li>Connect voltmeter to TCM connector terminal AO.</li> <li>Inspect if TCM connector terminal AO voltage is B+ in torque converter clutch operating</li> </ul>	Yes	<ul> <li>Inspect for open or short circuit between TCM connector terminal AO and shift solenoid connector terminal C. Repair or replace if necessary.</li> <li>Inspect if torque converter clutch solenoid valve is stuck. (See 05–13–18 Operating Inspection.)</li> <li>Then, go to next step.</li> </ul>			
	<ul> <li>condition while monitoring VSS and TP PIDs. (See 05–13–7 Typical Shift Diagram.)</li> <li>Is voltage okay?</li> </ul>	No	<ul> <li>Inspect TCM connector terminals for bending, damage, corrosion, or loose connection.</li> <li>Inspect following TCM connector terminal voltages while driving in suspect condition. (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION)         <ul> <li>D range signal (TCM terminal C)</li> <li>Input/turbine speed sensor signal (TCM terminals W and Z)</li> <li>Ground (TCM terminal AP)</li> <li>Output speed sensor signal (TCM terminals AE and AF)</li> <li>Throttle position sensor signal (TCM terminal U)</li> </ul> </li> </ul>			
3	Overhaul control valve body and repair or	Yes	AT is now normal.			
	<ul><li>replace any defective parts.</li><li>Is problem eliminated?</li></ul>	No	<ul> <li>Replace torque converter.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts</li> </ul>			

#### Note

 If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

#### **NO.9 ABNORMAL SHIFT**

A5U050301026W13 Abnormal shift 9 DESCRIPTION Shifts incorrectly. (incorrect shift pattern) ٠ There is a malfunction in the signal circuit which controls shifting (throttle position sensor, input/turbine • speed sensor, and output speed sensor), the control valve is stuck, or the clutch circuit is stuck. 1. Clutch slippage, burn Line pressure is low • Misadjustment of throttle position sensor malfunction Output speed sensor malfunction ٠ Input/turbine speed sensor malfunction ٠ Sensor ground malfunction ٠ Shift solenoid A malfunction POSSIBLE ٠ Shift solenoid B malfunction CAUSE ٠ Torque converter clutch solenoid valve malfunction • Body ground malfunction • • Throttle cable malfunction Control valve body malfunction • Note Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.

STEP	INSPECTION		ACTION
1	Inspect for continuity between TCM connector	Yes	Go to next step.
	<ul><li>terminal AP and ground.</li><li>Is there continuity?</li></ul>	No	Repair or replace ground circuit.

STEP	INSPECTION		ACTION
2	Make sure abnormal shift driving condition	Yes	Go to next step.
	<ul> <li>Inspect for any abnormal signal change at the following TCM terminals when abnormal shift occurs:         <ul> <li>D, 2, or 1 range signal (TCM C, B, or A)</li> <li>Throttle position sensor signal (TCM terminal U)</li> <li>Output speed sensor signal (TCM terminals AE and AF)</li> <li>Input/turbine speed sensor signal (TCM terminals W and Z)</li> </ul> </li> </ul>	No	Inspect related wiring harness and sensor for intermittent open or short circuit.
3	<ul> <li>Connect WDS or equivalent to data link connector-2.</li> <li>Access TP and VSS PIDs.</li> <li>Drive vehicle.</li> <li>Inspect following TCM connector terminal voltage at each shift point while monitoring TP and VSS PIDs: (See 05–13–7 Typical Shift Diagram.)</li> </ul>	Yes	<ul> <li>Inspect for continuity between TCM connector terminal and shift solenoid connector terminal. Inspect if shift solenoid is stuck.</li> <li>(See 05–13–18 Operating Inspection.)</li> <li>If okay, overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>
	<ul> <li>IGR</li> <li>TCM terminal AQ: B+</li> <li>TCM terminal AN: 0 V</li> <li>2GR</li> <li>TCM terminal AQ: B+</li> <li>TCM terminal AN: B+</li> <li>3GR</li> <li>TCM terminal AQ: 0 V</li> <li>TCM terminal AN: B+</li> <li>4GR</li> <li>TCM terminal AQ: 0 V</li> </ul>	No	Inspect for bending, damage, corrosion, or loose connection TCM terminal.

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## **NO.10 FREQUENT SHIFTING**

10	Frequent shifting		
DESCRIPTION	<ul> <li>Downshifting occurs immediately even when accelerator pedal is depressed slightly in D, 2, 1 ranges. (O/D OFF switch is off.)</li> </ul>		
POSSIBLE CAUSE	<ul> <li>The circuit is the cause and possible cause is basically the same as for No.9 "ABNORMAL SHIFT". However, a malfunction of the input signal to the throttle position sensor, input/turbine speed sensor, output speed sensor (including the sensor ground, sensor harness and connector), or clutch slippage (clutch stuck, low pressure in line) may also be the cause.</li> <li>Note</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>		

Note

## NO.11 SHIFT POINT IS HIGH OR LOW

	A5U050301026W15
11	Shift point is high or low
DESCRIPTION	<ul> <li>Shift point considerably different from automatic shift diagram.</li> <li>Shifts delayed when accelerating.</li> <li>Shift occurs quickly when accelerating and engine speed does not increase.</li> </ul>
POSSIBLE CAUSE	<ul> <li>If the transmission does not shift normally, there is a malfunction of the input signal to the throttle position sensor, input/turbine speed sensor, or output speed sensor.</li> <li>If the engine speed is high or low regardless that shifting is normal, inspect the tachometer.</li> <li>Verify that the output signal of the throttle position sensor changes linearly.</li> <li>Note <ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul> </li> </ul>

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

### **NO.12 NO KICKDOWN**

A5U050301026W16

A5U050301026W17

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12	No kickdown	
DESCRIPTION	Does not downshift when accelerator pedal is fully depressed within kickdown range.	
POSSIBLE CAUSE	<ul> <li>If the transmission does not downshift though shifting is normal, the malfunction is in the throttle position sensor circuit (including the sensor ground, sensor harness and connector).</li> <li>Note         <ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul> </li> </ul>	

#### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.13 ENGINE FLARES UP OR SLIPS WHEN UPSHIFTING OR DOWNSHIFTING

13	Engine flares up or slips when upshifting or downshifting		
DESCRIPTION	<ul> <li>When accelerator pedal is depressed for driveaway, engine speed increases normally but vehicle speed increases slowly.</li> <li>When accelerator pedal is depressed while driving, engine speed increases but vehicle speed does not increase.</li> </ul>		
POSSIBLE CAUSE	<ul> <li>There is clutch slippage because the clutch is stuck or the line pressure is low.</li> <li>Clutch stuck, slippage (Forward clutch, direct clutch, 4GR brake, brake No.2, one-way clutch No.0, one-way clutch No.1, one-way clutch No.2)</li> <li>Line pressure is low</li> <li>Misadjustment of throttle position sensor malfunction</li> <li>Output speed sensor malfunction</li> <li>Input/turbine speed sensor malfunction</li> <li>Sensor ground malfunction</li> <li>Shift solenoid A malfunction</li> <li>Shift solenoid A malfunction</li> <li>TCC solenoid valve malfunction</li> <li>Body ground malfunction</li> <li>Control valve body malfunction</li> <li>Control valve body malfunction</li> <li>Selector lever position disparity</li> <li>Transmission range switch position disparity</li> <li>Mote</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>		

## 05–03–17

Diagno	Diagnostic Procedure				
STEP	INSPECTION		ACTION		
1	<ul> <li>Is line pressure okay?</li> </ul>	Yes	Go to next step.		
	(See 05–13–5 Line Pressure Test.)	No	Repair or replace any defective parts according to inspection results.		
2	Is shift point okay?     (See 05–13–7 ROAD TEST)	Yes	Go to next step.		
		No	Go to No.9 "ABNORMAL SHIFT".		
3	<ul> <li>Inspect whether shift solenoids A and B are mechanically stuck. (See 05–13–18 Operating Inspection.)</li> <li>Are both shift solenoids okay?</li> </ul>	Yes	<ul> <li>Inspect TCM connector terminal and shift solenoid connector terminals for bending, damage, corrosion, or loose connection. Inspect also shift solenoid ground condition.</li> <li>If all items are okay, overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>		
		No	Replace shift solenoid. (See 05–13–18 SOLENOID VALVES REMOVAL/ INSTALLATION)		

#### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## **NO.14 ENGINE FLARES UP OR SLIPS WHEN ACCELERATING VEHICLE**

A5U050301026W18

14	Engine flares up or slips when accelerating vehicle		
DESCRIPTION	<ul> <li>Engine flares up when accelerator pedal is depressed for upshifting.</li> <li>Engine flares up suddenly when accelerator pedal is depressed for downshifting.</li> </ul>		
POSSIBLE CAUSE	<ul> <li>The malfunction is basically the same as for No.13 "ENGINE FLARES UP OR SLIPS WHEN UPSHIFTING OR DOWNSHIFTING".</li> <li>If condition for No.13 worsens, the malfunction will develop into No.14.</li> <li>Note         <ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul> </li> </ul>		

### Note

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• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## **NO.15 JUDDER UPON TCC OPERATION**

A5U050301026W19

15	Judder upon TCC operation		
DESCRIPTION	Vehicle jolts when TCC is engaged.		
	<ul> <li>Poor torque converter clutch engagement due to slippage because either the TCC piston is stuck or the line pressure is low.</li> <li>Note</li> </ul>		
	<ul> <li>If the TCC or piston are stuck, inspect them. In addition, inspect the oil cooler for foreign particles which may have mixed in with the ATF.</li> </ul>		
POSSIBLE CAUSE	<ol> <li>TCC piston slippage, burning         <ul> <li>Line pressure is low</li> <li>Misadjustment of throttle position sensor malfunction</li> <li>Output speed sensor malfunction</li> <li>Input/turbine speed sensor malfunction</li> <li>Sensor ground malfunction</li> <li>TCC solenoid valve malfunction</li> <li>Control valve body malfunction</li> </ul> </li> <li>Torque converter malfunction</li> </ol>		
	<ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>		

Diagno	Diagnostic Procedure				
STEP	INSPECTION		ACTION		
1	Inspect for abnormal signal change at	Yes	Go to next step.		
	<ul> <li>following TCM connector terminal when judder occurs:</li> <li> — Throttle position sensor signal (TCM terminal U) </li> <li> — Output speed sensor signal (TCM terminals AE and AF) </li> <li> — Input/turbine speed sensor signal (TCM terminals W and Z) </li> <li> Are all signals okay? </li> </ul>	No	Inspect related wiring harness and sensor for intermittent open or short circuit.		
2	<ul> <li>Connect WDS or equivalent to data link connector-2.</li> <li>Access VSS and TP PIDs.</li> <li>Inspect TCM connector terminal AO voltage in TCC operating condition while monitoring VSS</li> </ul>	Yes	<ul> <li>Inspect for continuity between TCM connector terminal AO and TCC solenoid valve terminal C.</li> <li>Inspect if TCC solenoid valve is stuck. (See 05–13–18 Operating Inspection.) — If okay, go to next step.</li> </ul>		
	and TP PIDs. (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION) Specification: B+ in TCC condition • Does voltage change from 0 V to B+ with correct TCC timing?	No	<ul> <li>Inspect TCM connector terminal for bending, damage, corrosion, or loose connection.</li> <li>Inspect for short to ground between TCC solenoid valve connector terminal C and TCM connector terminal AO.</li> </ul>		
3	Overhaul control valve body and repair or	Yes	AT is now normal.		
	<ul><li>replace any defective parts.</li><li>Is problem eliminated?</li></ul>	No	Replace torque converter.		

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.16 EXCESSIVE N TO D OR N TO R POSITION/RANGE SHIFT SHOCK

A5U050301026W20

16	
<b>DESCRIPTION</b> • Strong shock is felt when shifting from N to D or N to R position/range at idle.	
POSSIBLE CAUSE	

STEP	INSPECTION		ACTION
1	<ul> <li>Does shift shock occur only when engine is cold?</li> </ul>	Yes	Inspect following TCM connector terminal voltages: (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION) • Throttle position sensor signal (TCM terminal U) • Ground (TCM terminal AP)
		No	Go to next step.
2	Is line pressure okay?	Yes	Go to next step.
	(See 05–13–5 Line Pressure Test.)	No	Repair or replace any defective parts according to inspection results.

STEP	INSPECTION		ACTION
3	<ul> <li>Is stall speed okay?</li> </ul>	Yes	Go to next step.
	(See 05–13–6 Stall Test)	No	Repair or replace any defective parts according to inspection results.
4	<ul> <li>Turn ignition switch to ON.</li> <li>Inspect TCM connector terminal AP voltage: (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION)</li> <li>Is voltage okay?</li> </ul>	Yes	<ul> <li>Inspect ground condition.</li> <li>Overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>
		No	<ul><li>Adjust throttle position sensor if necessary.</li><li>Replace throttle position sensor if necessary.</li></ul>

Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.17 EXCESSIVE SHIFT SHOCK WHEN UPSHIFTING AND DOWNSHIFTING

A5U050301026W21

17	Excessive shift shock when upshifting and downshifting				
DESCRIPTION	<ul> <li>Excessive shift shock is felt when depressing accelerator pedal at upshifting.</li> <li>During cruising, excessive shift shock is felt when depressing accelerator pedal at downshifting.</li> </ul>				
POSSIBLE CAUSE	<ul> <li>Shift shock may worsen when the fail-safe is operating. The shift shock has worsened if the throttle position sensor, input/turbine speed sensor, or output speed sensor signal malfunctions.</li> <li>Clutch slippage, burning         <ul> <li>Line pressure is low or high</li> <li>Throttle position sensor malfunction</li> <li>Output speed sensor malfunction</li> <li>Input/turbine speed sensor malfunction</li> <li>Shift solenoid A malfunction</li> <li>Shift solenoid B malfunction</li> <li>Throttle cable malfunction</li> <li>Throttle cable malfunction</li> <li>Throttle cable malfunction</li> </ul> </li> <li>Show and sensor ground malfunction</li> <li>Throttle cable malfunction</li> <li>Control valve body malfunction</li> <li>Poor hydraulic operation (Malfunction in range change)</li> </ul> <li>Note</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li>				

STEP	INSPECTION	_	ACTION
1	Is line pressure okay?	Yes	Go to next step.
	05–13–5 Line Pressure Test.	No	Repair or replace any defective parts according to inspection results.
2	<ul> <li>Is stall speed okay?</li> </ul>	Yes	Go to next step.
	(See 05–13–6 Stall Test)	No	Repair or replace any defective parts according to inspection results.
3	Inspect for abnormal signal change at	Yes	Go to next step.
	<ul> <li>following TCM connector terminal while upshifting or downshifting:</li> <li>Throttle position sensor signal (TCM terminal U)</li> <li>Output speed sensor (TCM terminals AE and AF)</li> <li>Input/turbine speed sensor signal (TCM terminals W and Z)</li> <li>Are all signals okay?</li> </ul>	No	Inspect related wiring harness and sensor for intermittent open or short circuit.

STEP	INSPECTION		ACTION
4	<ul> <li>Inspect whether shift solenoids are mechanically stuck. (See 05–13–18 Operating Inspection.)</li> <li>Are shift solenoids okay?</li> </ul>	Yes	<ul> <li>Inspect for continuity between appropriate shift solenoid connector terminal and appropriate TCM connector terminal.</li> <li>If okay, overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>
		No	Replace shift solenoid.

#### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

### NO.18 EXCESSIVE TCC SHIFT SHOCK

A5U050301026W22

**0**3

18	Excessive TCC shift stock			
DESCRIPTION	Strong shock is felt when torque converter clutch is engaged.			
POSSIBLE CAUSE	<ol> <li>The troubleshooting flow is the same as for No.15 "JUDDER UPON TCC OPERATION"</li> <li>Note         <ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul> </li> </ol>			

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.19 NOISE AT IDLE WHEN VEHICLE IS STOPPED IN ALL POSITION/RANGES

A5U050301026W23

19	Noise at idle when vehicle is stopped in all position/ranges
DESCRIPTION	Transmission is noisy in all positions and ranges when vehicle is idling.
	The malfunction is in the oil pump which causes a high-pitched noise to be emitted from the transmission at idle.
POSSIBLE CAUSE	<ul> <li>Note</li> <li>If a noise is emitted during shifting only, the malfunction is in shift solenoid A, B, or TCC solenoid valve. If a noise is emitted during shifting at certain gears only or during deceleration only, it is gear noise.</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>

### **Diagnostic Procedure**

STEP	INSPECTION		ACTION
1	<ul><li>Inspect engine condition.</li><li>Is there anything wrong with the engine?</li></ul>	Yes	Go to appropriate symptom troubleshooting. (See 01–02A–13 DTC TABLE)
		No	<ul> <li>Inspect installation condition of engine and transmission mounts. Inspect also for AT cooler pipe vibration.</li> <li>If okay, overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>

#### Note

## NO.20 NOISE AT IDLE WHEN VEHICLE IS STOPPED IN D, 2, 1 RANGES OR IN R POSITION

20	Noise at idle when vehicle is stopped in D, 2, 1 ranges or in R position		
DESCRIPTION	Transmission is noisy in driving ranges when vehicle is idling.		
POSSIBLE CAUSE	<ol> <li>Although the malfunction is basically the same as No.19 "NOISE AT IDLE WHEN VEHICLE IS STOPPED IN ALL POSITIONS/RANGES", other causes may be selector lever position disparity or transmission range switch position disparity.</li> <li>Note         <ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic</li> </ul> </li> </ol>		
	inspection have been conducted.		

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.21 NO ENGINE BRAKING IN 1, 2, OR 3 GEAR

A5U050301026W25

A5U050301026W24

21	No engine braking in 1, 2, or 3 gear
DESCRIPTION	<ul> <li>Engine speed drops to idle but vehicle coasts when accelerator pedal is released during cruising at medium to high speeds.</li> <li>Engine speed drops to idle but vehicle coasts when accelerator pedal is released in 1 range at low vehicle speed.</li> </ul>
POSSIBLE CAUSE	<ol> <li>Clutch slippage, burning (brake No.1, reverse brake)         <ul> <li>Line pressure is low</li> <li>Output speed sensor malfunction</li> <li>Input/turbine speed sensor malfunction</li> <li>Sensor ground malfunction</li> <li>Control valve body malfunction</li> <li>Selector lever malfunction</li> <li>Selector lever malfunction</li> </ul> </li> <li>Word OFF switch is on" is not judged by TCM (short or open circuit, or poor operation)</li> <li>Malfunction of O/D OFF switch signal</li> <li>Note</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ol>

### Diagnostic Procedure

STEP	INSPECTION		ACTION
1	<ul> <li>Inspect adjustment of TR switch.</li> </ul>	Yes	Go to next step.
	<ul> <li>Is TR switch adjusted properly?</li> </ul>	No	<ul> <li>Inspect transmission range switch adjustment. (See 05–13–16 TRANSMISSION RANGE (TR) SWITCH ADJUSTMENT)</li> <li>Adjust transmission range switch if necessary.</li> <li>Inspect transmission range switch.</li> <li>Repair or replace any defective parts.</li> </ul>
2	<ul> <li>Do following symptoms concurrently occur?</li> <li>— Engine flares up or slips during acceleration.</li> <li>— Engine flares up or slips when shifting.</li> </ul>	Yes	Go to symptom troubleshooting No.13 "ENGINE FLARES UP OR SLIPS WHEN UPSHIFTING OR DOWNSHIFTING" or No.14 "ENGINE FLARES UP OR SLIPS WHEN ACCELERATING VEHICLE".
		No	Go to next step.
3	<ul> <li>Inspect voltages at following TCM connector terminals: (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION)</li> </ul>	Yes	<ul> <li>Overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>
	<ul> <li>TCC solenoid valve signal (TCM terminal AO)</li> <li>Input/turbine speed sensor signal (TCM terminals W and Z)</li> <li>Output speed sensor signal (TCM terminals AE and AF)</li> <li>Are voltages okay?</li> </ul>	No	Inspect for intermittent open or short circuit on related wiring harness and/or sensor.

### Note

## NO.22 TRANSMISSION OVERHEATS

	A5U050301026W26
22	Transmission overheats
DESCRIPTION	<ul><li>Burnt smell is emitted from transmission.</li><li>Smoke is emitted from transmission.</li></ul>
POSSIBLE CAUSE	<ul> <li>The malfunction is restricted to hindrance of coolant at the oil cooler.</li> <li>Line pressure is low         <ul> <li>ATF level is low</li> <li>Throttle position sensor malfunction</li> <li>Misadjustment of throttle cable</li> </ul> </li> <li>Oil cooler malfunction (Foreign material mixed in with ATF)</li> <li>Excessive amount of ATF</li> <li>Note</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic interaction have been conducted</li> </ul>

### **Diagnostic Procedure**

STEP	INSPECTION		ACTION
1	Is line pressure okay?	Yes	Go to next step.
	(See 05–13–5 Line Pressure Test.)	No	Repair or replace any defective parts according to inspection results.
2	Perform stall test.	Yes	Go to next step.
	<ul><li>(See 05–13–6 Stall Test)</li><li>Is stall speed okay?</li></ul>	No	Repair or replace any defective parts according to inspection results.
3	<ul> <li>Inspect oil cooler pipes for bending, damage, corrosion or kinks.</li> <li>Are oil cooler pipes okay?</li> </ul>	Yes	<ul> <li>Overhaul control valve body and repair or replace any defective parts.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>
		No	Replace any defective parts.

#### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

### NO.23 ENGINE STALLS WHEN SHIFTED TO D, 2, 1 RANGES, AND/OR IN R POSITION

A5U050301026W27

23	Engine stalls when shifted to D, 2, 1 ranges, and/or R position		
DESCRIPTION	• Engine stalls when shifting from N to P position to D, 2, 1 ranges or R position at idle.		
POSSIBLE CAUSE	<ol> <li>The malfunction is on engine control side (i.e. IAC control). Otherwise, the malfunction is in TCC circuit (engine always stalls)</li> <li>Note</li> </ol>		
	<ul> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>		

STEP	INSPECTION		ACTION
1	Go to symptom troubleshooting No.4 "ENGINE	Yes	Go to next step.
	<ul> <li>STALLS"</li> <li>(See 01–02A–13 DTC TABLE.)</li> <li>Is engine control system okay?</li> </ul>	No	Repair or replace any defective parts according to inspection results.
2	<ul> <li>Inspect TCM connector terminal AO voltage. (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION)</li> <li>Is terminal voltage okay?</li> </ul>	Yes	Inspect if TCC solenoid valve is stuck mechanically. (See 05–13–18 Operating Inspection.) • If okay, go to next step.
		No	Inspect for intermittent short to power circuit between TCC connector terminal AO and TCC solenoid valve connector terminal.
3	<ul> <li>Inspect oil cooler line pipes for bending, damage or kinks.</li> <li>If okay, overhaul control valve body and repair or replace any defective parts.</li> <li>Is problem eliminated?</li> </ul>	Yes	AT is now normal.
		No	<ul> <li>Replace torque converter.</li> <li>If problem remains, replace or overhaul transmission and repair or replace any defective parts.</li> </ul>

#### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

## NO.24 ENGINE STALLS WHEN DRIVING AT SLOW SPEEDS OR STOPPING

24	Engine stalls when driving at slow speeds or stopping		
DESCRIPTION	Engine stalls when brake pedal is depressed while driving at low speeds or stopping.		
POSSIBLE CAUSE	<ul> <li>The malfunction is on the engine control side (fuel injection control, IAC control).</li> <li>Note</li> <li>Before following the troubleshooting steps, make sure that the on-board diagnosis and basic inspection have been conducted.</li> </ul>		

A5U050301026W28

### **Diagnostic Procedure**

STEP	EP INSPECTION		ACTION
1	<ul> <li>Go to symptom troubleshooting No.9 "ABNORMAL SHIFT". (See 01–02A–13 DTC TABLE)</li> <li>Is engine control system okay?</li> </ul>	Yes	Go to symptom troubleshooting No.23 "ENGINE STALLS WHEN SHIFTED TO D, 2, 1 RANGE, AND/OR IN R POSITION".
		No	Repair or replace any defective parts according to inspection results.

### Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

#### NO.25 O/D OFF INDICATOR LIGHT DOES NOT ILLUMINATE WHEN O/D OFF SWITCH IS TURNED ON A5U050301026W29

25	O/D OFF indicator light does not illuminate when O/D off switch is turned on		
DESCRIPTION	<ul> <li>O/D OFF indicator light in dashboard does not illuminate when O/D OFF switch is turned on and ignition switch is at ON.</li> </ul>		
POSSIBLE CAUSE	O/D OFF switch or related wiring harness malfunction		

### Diagnostic Procedure

STEP	INSPECTION		ACTION
1	<ul> <li>Are other indicator lights illuminated with ignition switch at ON?</li> </ul>	Yes	Inspect meter fuse.
		No	Go to next step.
2	<ul> <li>Inspect O/D OFF switch.</li> </ul>	Yes	Go to next step.
	(See 05–13–13 O/D OFF SWITCH INSPECTION) Is O/D OFF switch okay?	No	Replace O/D OFF switch. (See 05–13–14 O/D OFF SWITCH REMOVAL/ INSTALLATION)
3	<ul> <li>Inspect TCM connector terminal L voltage. (See 05–13–20 TRANSMISSION CONTROL MODULE (TCM) INSPECTION)</li> <li>Is terminal voltage okay?</li> </ul>	Yes	Go to next step.
		No	Inspect for continuity between O/D OFF switch and TCM terminal K.
4	<ul> <li>Remove O/D OFF indicator light.</li> <li>Is O/D OFF indicator light bulb burned out?</li> </ul>	Yes	Replace O/D OFF indicator light.
		No	<ul> <li>Inspect for open circuit or disconnected connector in following harness:</li> <li>Ignition switch and O/D OFF indicator light</li> <li>O/D OFF indicator light and TCM terminal L including instrument cluster circuit board</li> </ul>

### Note

# NO.26 O/D OFF INDICATOR LIGHT ILLUMINATES WHEN O/D OFF SWITCH IS NOT TURNED ON

26	O/D OFF indicator light illuminates when O/D OFF switch is not turned on		
DESCRIPTION	<ul> <li>O/D OFF indicator light in dashboard illuminates even though O/D OFF switch is turned off and ignition switch is at ON.</li> </ul>		
POSSIBLE CAUSE	O/D OFF switch or related wiring harness malfunction		

### **Diagnostic Procedure**

STEP	P INSPECTION		ACTION
1	Inspect O/D OFF switch.	Yes	Go to next step.
	(See 05–13–13 O/D OFF SWITCH INSPECTION.) Is O/D OFF switch okay?	No	Replace O/D OFF switch. (See 05–13–14 O/D OFF SWITCH REMOVAL/ INSTALLATION.)
2	<ul> <li>Inspect TCM connector terminal L voltage. (See 05–13–20 TRANSMISSION CONTROL</li> </ul>	Yes	Inspect for short to ground circuit between O/D OFF switch terminal and TCM terminal K.
<ul> <li>MODULE (TCM) INSPECTION.)</li> <li>Is terminal voltage okay?</li> </ul>	<ul><li>MODULE (TCM) INSPECTION.)</li><li>Is terminal voltage okay?</li></ul>	No	Inspect for short to ground circuit between O/D OFF indicator light on instrument cluster and TCM connector terminal L including instrument cluster circuit board.

Note

• If the malfunction remains even though all inspections have been performed, get assistance from technical hot line/your distributors.

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