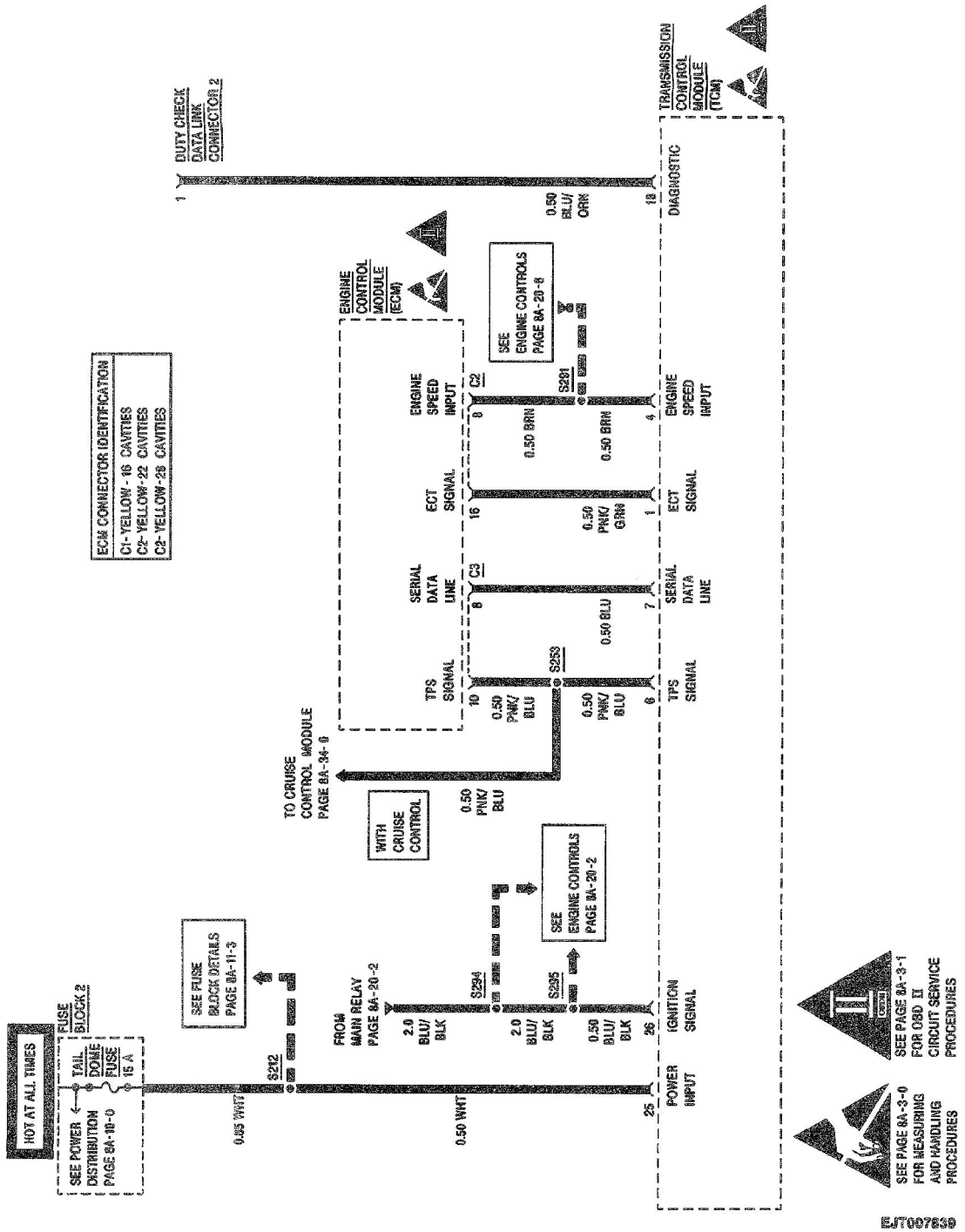
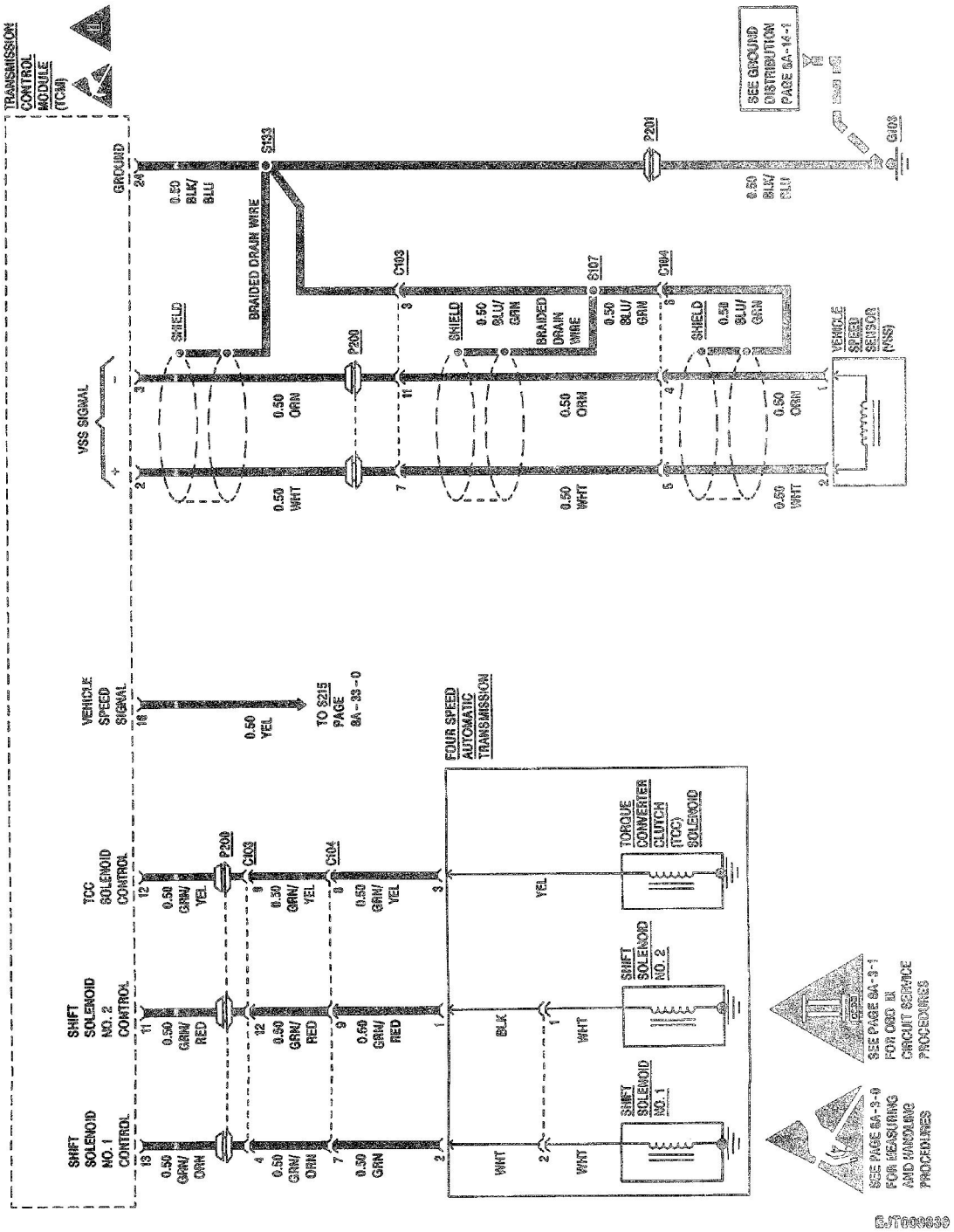
AUTOMATIC TRANSMISSION CONTROLS

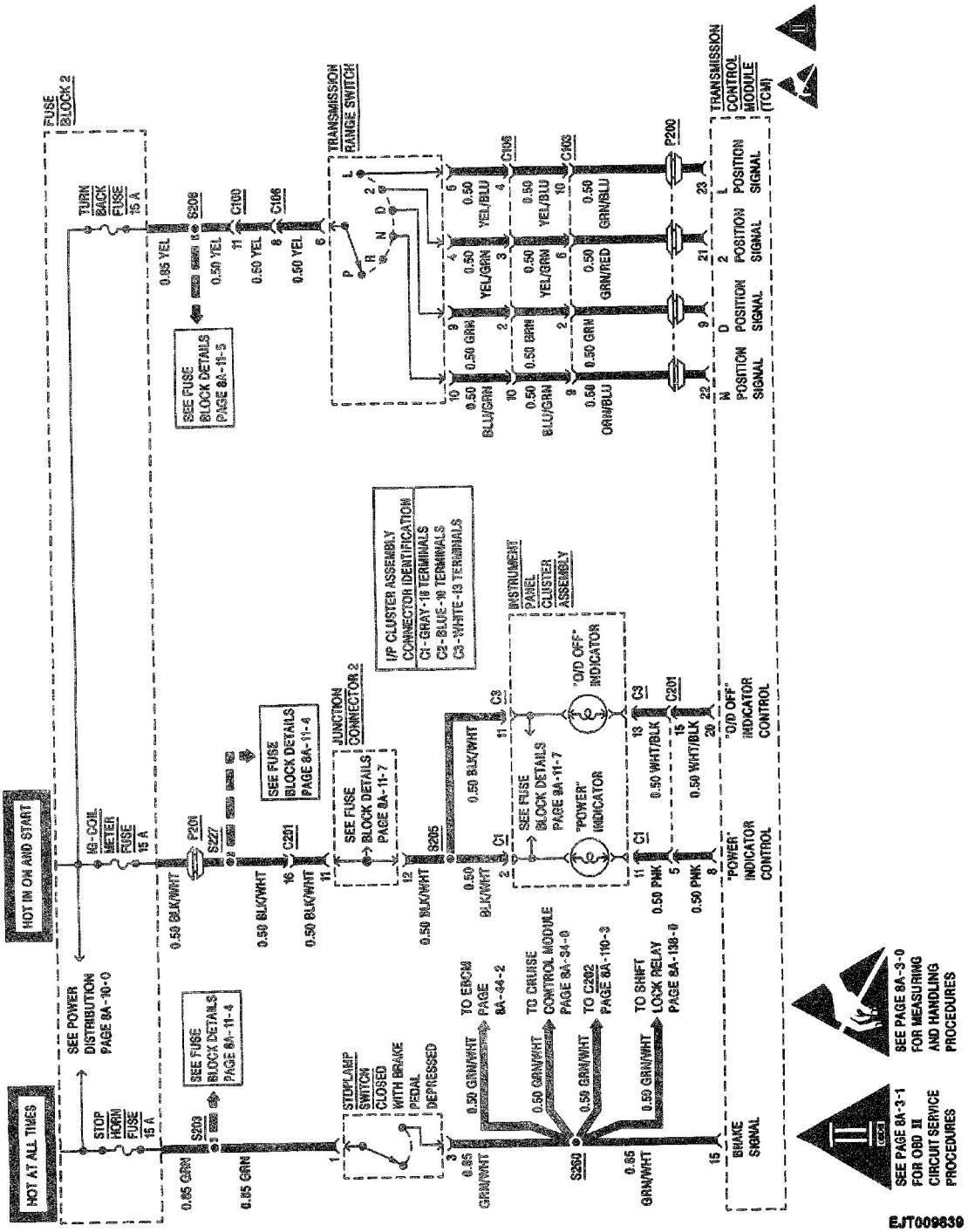
FOUR SPEED AUTOMATIC TRANSMISSION

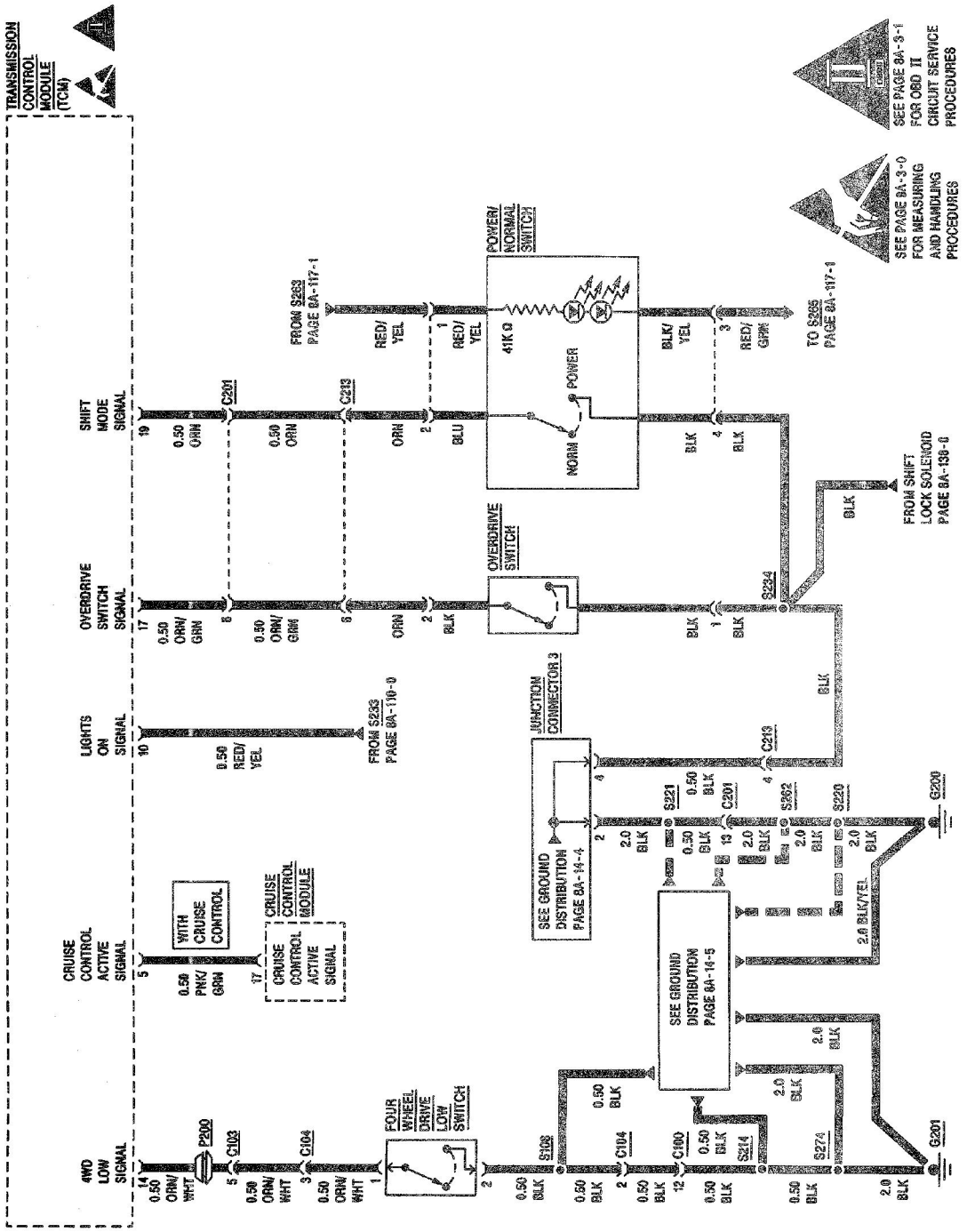


EJT007839


TRANSMISSION CONTROL MODULE (TCM)
GROUND
24
0.50 BLK/BLU
S133
BRAIDED DRAIN WIRE
P201
SEE GROUND DISTRIBUTION PAGE 6A-14-1
G103
C103
S107
C104
SHIELD
0.50 BLU/GRN
BRAIDED DRAIN WIRE
VSS SIGNAL
P200
0.50 ORN
0.50 WHT
VEHICLE SPEED SENSOR (VSS)
VEHICLE SPEED SIGNAL
16
0.50 YEL
TO S215 PAGE 8A-33-0
FOUR SPEED AUTOMATIC TRANSMISSION
TCC SOLENOID CONTROL
12
0.50 GRN/YEL
SHIFT SOLENOID NO. 2 CONTROL
11
0.50 GRN/RED
SHIFT SOLENOID NO. 1 CONTROL
13
0.50 GRN/ORN
0.50 GRN
TORQUE CONVERTER CLUTCH (TCC) SOLENOID
SHIFT SOLENOID NO. 2
SHIFT SOLENOID NO. 1
YEL
BLK
WHT
SEE PAGE 6A-3-0 FOR MEASURING AND HANDLING PROCEDURES
SEE PAGE 6A-3-1 FOR OBD III CIRCUIT SERVICE PROCEDURES
EJT0000030

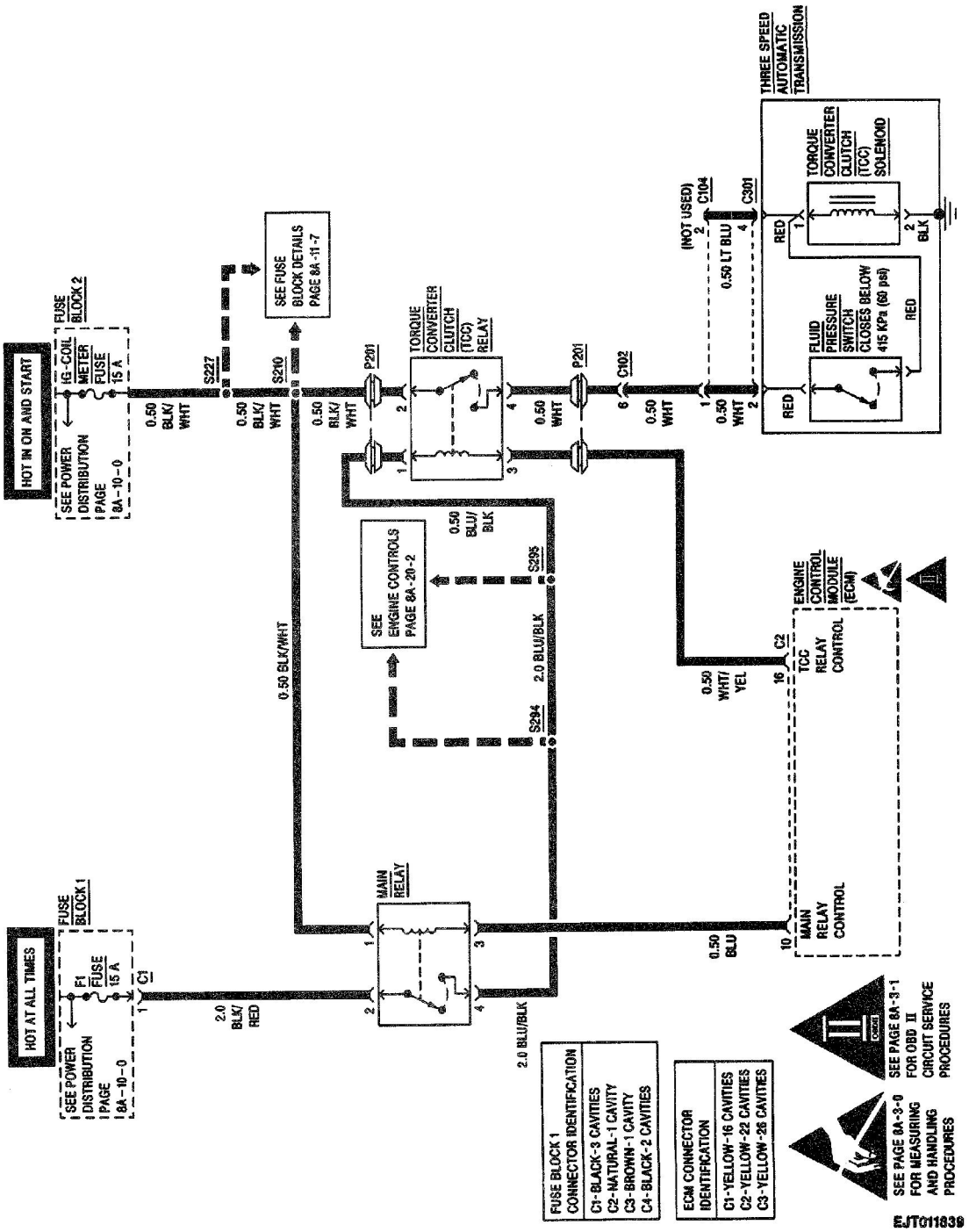
AUTOMATIC TRANSMISSION CONTROLS
FOUR SPEED AUTOMATIC TRANSMISSION




TRANSMISSION CONTROL MODULE (TCM)
SEE PAGE 8A-3-1 FOR OBD II CIRCUIT SERVICE PROCEDURES
SEE PAGE 8A-3-0 FOR MEASURING AND HANDLING PROCEDURES
POWER/ NORMAL SWITCH
FROM S263 PAGE 8A-117-1
TO S265 PAGE 8A-117-1
SHIFT MODE SIGNAL
OVERDRIVE SWITCH SIGNAL
LIGHTS ON SIGNAL
CRUISE CONTROL ACTIVE SIGNAL
4WD LOW SIGNAL
FROM SHIFT LOCK SOLENOID PAGE 8A-136-6
OVERDRIVE SWITCH
JUNCTION CONNECTOR 3
FROM S263 PAGE 8A-110-0
WITH CRUISE CONTROL
CRUISE CONTROL MODULE
CRUISE CONTROL ACTIVE SIGNAL
SEE GROUND DISTRIBUTION PAGE 8A-14-4
SEE GROUND DISTRIBUTION PAGE 8A-14-5
FOUR WHEEL DRIVE LOW SWITCH
41K Ω
POWER
NORM
EJT010839

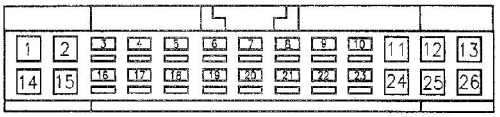
AUTOMATIC TRANSMISSION CONTROLS

THREE SPEED AUTOMATIC TRANSMISSION



AUTOMATIC TRANSMISSION CONTROLS
FOUR SPEED AUTOMATIC TRANSMISSION

TRANSMISSION CONTROL MODULE (TCM) CONNECTOR



GRAY

EJT012839

WIRING DETAIL LEGEND

CAVITY	WIRE COLOR	CIRCUIT
1	PNK/ GRN	ECT Signal
2	WHT	VSS Signal (+)
3	ORN	VSS Signal (-)
4	BRN	Engine Speed Input
5	PNK/ GRN	Cruise Control Active Signal (with cruise)
6	PNK/BLU	TPS Signal
7	BLU	Serial Data Line
8	PNK	"POWER" Indicator Control
9	GRN	D Position Signal
10	RED/YEL	Lights on Signal
11	GRN/ RED	Shift Solenoid No. 2 Control
12	GRN/ YEL	TCC Solenoid Control
13	GRN/ ORN	Shift Solenoid No. 1 Control
14	ORN/ WHT	4WD Low Signal (4WD)

CAVITY	WIRE COLOR	CIRCUIT
15	GRN/ WHT	Brake Signal
16	YEL	Vehicle Speed Signal
17	ORN/ GRN	Overdrive Switch Signal
18	BLU/ ORN	Diagnostic
19	ORN	Shift Mode Signal
20	WHT/ BLK	"O/D OFF" Indicator Control
21	GRN/ RED	2 Position Signal
22	ORN/ BLU	N Position Signal
23	GRN/ BLU	L Position Signal
24	BLK/BLU	Ground
25	WHT	Power Input
26	BLU/BLK	Ignition Signal

AUTOMATIC TRANSMISSION CONTROLS

COMPONENT	LOCATION	201-PG	FIG.	CONN
Cruise Control Module	Behind LH I/P, mounted to Electronic Brake Control Module (EBCM)			34-02
Duty Check Data Link Connector (DLC) 2	RH Engine Compartment, behind RH Headlamp	02	A	
Engine Control Module (ECM)	Under LH I/P, left of Steering Column			
C2 (22 Cavities)	Main Harness to ECM, behind I/P left of Steering Column	06	A	20-11
C3 (26 Cavities)	Main Harness to ECM, behind I/P left of Steering Column	06	A	20-12
Four Wheel Drive Low Switch (4-Speed Automatic Transmission)	Top of Transfer Case			
Fuse Block 1	RH Engine Compartment, front of Battery	01	A	
C1 (3 Cavities)	Main Harness to Fuse Block 1, below Fuse Block 1	01	A	
Fuse Block 2	Under LH I/P	06	A	
Instrument Panel Cluster Assembly	LH I/P	07	A	
C1 (16 Terminals)	I/P Harness to I/P Cluster Assembly, behind I/P Cluster Assembly	07	A	81-03
C3 (13 Terminals)	I/P Harness to I/P Cluster Assembly, behind I/P Cluster Assembly	07	A	81-05
Junction Connector 2 (20 Cavities)	I/P Harness, LH side of I/P, behind Illumination Controller			
Junction Connector 3 (10 Cavities)	I/P Harness, RH side of I/P, near RH Front Speaker			
Main Relay	Center I/P, behind Blower Speed Selector Switch	06	A	202-15A3
Overdrive Switch (4-Speed Automatic Transmission)	Center Console, mounted in Manual Selector Lever			
Power/Normal Switch (4-Speed Automatic Transmission)	In Center Console, right of Manual Selector Lever			
Shift Solenoid No. 1 (4-Speed Automatic Transmission)	In Transmission, attached to Valve Body			
Shift Solenoid No. 2 (4-Speed Automatic Transmission)	In Transmission, attached to Valve Body			
Stoplamp Switch	Under LH I/P, above Brake Pedal	06	A	
Torque Converter Clutch (TCC) Relay (3-Speed Automatic Transmission)	RH Engine Compartment, in front of Battery			
Torque Converter Clutch (TCC) Solenoid (Automatic Transmission)	In Transmission, attached to Valve Body			
Transmission Control Module (TCM) (4-Speed Automatic Transmission)	LH I/P, mounted to Engine Control Module (ECM)			39-05

COMPONENT	LOCATION	201-PG	FIG.	CONN
Transmission Range Switch (Automatic Transmission)	RH side of Transmission	14	B	202-14A1
Vehicle Speed Sensor (VSS) (4-Speed Automatic)	LH side, of Transmission, in Adapter Case	14	B	
C100 (16 Cavities)	Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	04	A	202-01A1
C102 (6 Cavities) (3-Speed Automatic Transmission)	Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	04	A	
C103 (12 Cavities) (Manual and 4-Speed Automatic Transmissions)	Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	04	A	202-03A1
C104 (6 Cavities) (Manual and 3-Speed Automatic Transmission)	Engine Harness to Transmission Harness, RH Rear of Engine Compartment, under Intake Manifold	05	A	202-15B2
C104 (9 Cavities) (4-Speed Automatic Transmission)	Engine Harness to Transmission Harness, RH Rear of Engine Compartment, under Intake Manifold	05	A	202-03A1
C106 (10 Cavities) (4-Speed Automatic Transmission)	Engine Harness to Transmission Harness, RH Rear Engine, under Intake Manifold			202-05A1
C201 (16 Cavities)	Main Harness to I/P Harness, LH I/P near Fuse Block 2	06	A	202-07A1
C213 (6 Cavities)	I/P Harness to Shift Illumination Jumper Harness, Center I/P			202-15B3
C301 (6 Cavities) (2-Door)	Floor Harness to Sub-Floor Harness, behind LH Rear Passenger Compartment Trim Panel			202-15B3
G103	RH Rear Engine Compartment mounted to Intake Manifold	02	A	
G200	Behind LH I/P, above Fuse Block 2	06	A	
G201	Behind RH I/P, near Blower Assembly	06	A	
P200	LH Engine Compartment on Bulkhead, near Brake Master Cylinder	04	A	
P201	RH Rear Engine Compartment on Bulkhead, near Battery	01	A	
S107	In Engine Harness between C103 and C104			
S108 (4-Speed Automatic)	Transmission Harness, near 4WD Switch breakout			
S133	Main Harness, near P200			
S203	Main Harness, behind I/P left of Steering Column			
S205	I/P Harness, behind center of I/P			
S208	Main Harness, near Fuse Block 2			
S210	Main Harness, at Bulkhead near Front Wiper Motor			
S212	Main Harness, left of Steering Column			
S214	Main Harness, near I/P left of Steering Column			

COMPONENT	LOCATION	201-PG	FIG.	CONN
S220	Main Harness, near I/P left of Steering Column			
S221	I/P Harness near, C201 breakout			
S227	Main Harness, near Fuse Block 2			
S234 (4-Speed Automatic)	In Manual Selector Lever Harness			
S253 (4-Speed Automatic)	Main Harness, near Transmission Control Module (TCM) connector breakout			
S260	Main Harness, near Blower Speed Selector Switch			
S262	Main Harness, left of Steering Column			
S274	Main Harness, near Engine Control Module (ECM)			
S291	Main Harness, near Engine Control Module (ECM)			
S294	Main Harness, near Engine Control Module (ECM)			
S295	Main Harness, near Fuse Block 2			

SYSTEM DIAGNOSIS

For system diagnosis, diagnostic trouble codes (DTCs) and service information regarding Automatic Transmission Controls, refer to SECTION 7A-10A.

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