

SECTION : 5A

4T40–E AUTOMATIC TRANSAXLE

CAUTION : *Disconnect the negative battery cable before removing or installing any electrical unit or when a tool or equipment could easily come in contact with exposed electrical terminals. Disconnecting this cable will help prevent personal injury and damage to the vehicle. The ignition must also be in LOCK unless otherwise noted.*

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SPECIFICATIONS

END PLAY SPECIFICATIONS

Dimension A (mm)	Washer Selection	Washer Dimension
100.40–100.70	Brown	1.50–1.60
100.70–100.99	Grey	1.80–1.90
100.99–101.29	Natural	2.09–2.19
101.29–101.59	Black	2.39–2.49
101.59–101.88	Orange	2.68–2.78
101.88–102.18	Violet	2.98–3.08
102.18–102.48	Yellow	3.28–3.38
102.48–102.77	Red	3.57–3.67
102.77–103.07	Green	3.87–3.97

TRANSAXLE GENERAL SPECIFICATIONS

Dimension A (mm)	Backing Plate Identification
8.970–9.433	A
9.434–10.007	B
10.008–10.470	C

FLUID CAPACITY

	Litres	Quarts
Bottom Pan Removal	6.5	6.9
Complete Overhaul	9.0	9.5
Dry	12.2	12.9
(Measurements are approximate)		

RANGE REFERENCE

Range	Park/ Neutral	Reverse	D				3			2			1	
			Gear	N	R	1st	2nd	3rd	4th	1st	2nd	3rd	1st	2nd
1–2 Shift Solenoid	ON	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
1–2 Shift Solenoid	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
2nd Clutch	–	–	–	A	A*	A*	–	A	A*	–	A	A*	–	A
2nd Roller Clutch	–	–	–	H	O	–	–	H	O	–	H	O	–	H
Int./4th Band	–	–	–	–	–	A	–	–	–	–	A	–	–	A
Reverse Clutch	–	A	–	–	–	–	–	–	–	–	–	–	–	–
Coast Clutch	–	–	–	–	–	–	A	A	A	A	A	A	A	A
Input Sprag	–	–	H	H	H	O	H	H	H	H	H	H	H	H
Direct Clutch	–	–	–	–	A	A	–	–	A	–	–	A	–	–
Forward Clutch	–	–	A	A	A	A*	A	A	A	A	A	A	A	A
LO/Rev Band	A	A	–	–	–	–	–	–	–	–	–	–	A	–
LO Roller Clutch	–	–	H	O	O	O	H	O	O	H	O	O	H	O

A = Applied

H = Holding

O = Overrunnig

ON = The solenoid is energized.

OFF = The solenoid is de-energized.

* = Applied with no load.

** = Manual Second–Third gear is only available above approximately 100 km/h (62 mph).

*** = Manual First–Second gear is only available above approximately 60 km/h (37 mph).

NOTE: Manual First–Third gear is also possible at high vehicle speed as a safety feature.

4T40–E GEAR RATIOS

Gear	Ratio
First	2.96
Second	1.62
Third	1.00
Fourth	0.68
Reverse	2.14

SHIFT SPEED

% of TPS		1–2 Shift @ +/- 3 mph			2–3 Shift @ +/- 4 mph			3–4 Shift @ +/- 5 mph			Downshift @ +/- 4 mph			TCC Apply 4th Gear
Model	Series	10	25	50	10	25	50	10	25	50	4–3 Coast	3–2 Coast	2–1 Coast	
WKR	J	9	14.5	20	17	25	39.5	30	36	57	26	11.5	6	42
WBR	J	9	15	27	17	28	51	38	40	78	30	13	7	38

LINE PRESSURE

Pressure Control Solenoid Current (Amp)	Approximate Line Pressure (psi)
0.00	152–160
0.10	149–151
0.30	141–143
0.50	124–127
0.60	111–115
0.70	97–101
0.80	81–84
0.90	64–67
0.95	56–58
1.00	50–51
1.05	50
1.10	50

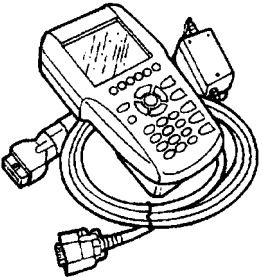
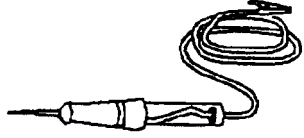
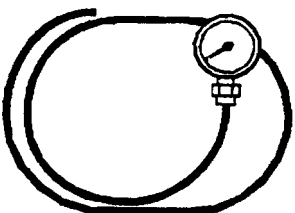
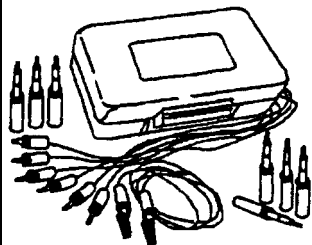
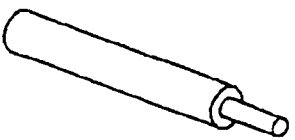
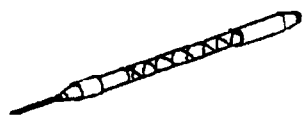
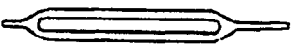
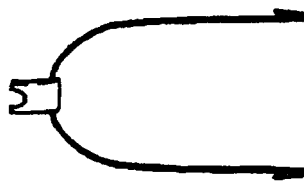
FASTENER TIGHTENING SPECIFICATIONS

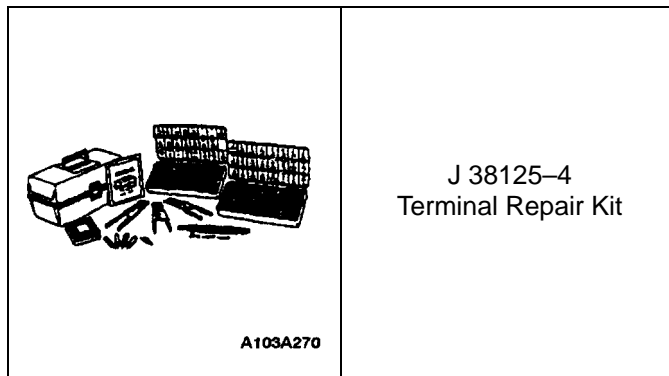
Application	N•m	Lb–Ft	Lb–In
A/T VSS Stud	12	–	106
Bell Housing Bolts	75	55	–
Channel Plate–to–Case Bolt	12	9	–
Channel Plate–to–Case Valve Body Bolts	12	–	106
Channel Plate–to–Case Valve Body Pressure Switch Manual Bolts	12	–	106
Channel Plate–to–Case Valve Body Pump Bolts	12	–	106
Channel Plate–to–Support–Driven Sprocket Bolt	14	10.5	–
Channel Plate–to–Support–Driven Sprocket Spacer Bolts	14	10.5	–

Application	N•m	Lb-Ft	Lb-In
Channel Plate Valve Body Pressure Switch Manual Bolts	12	–	106
Detent-to-Channel Plate Spring & Roller Assembly	12	–	106
Drive Sprocket-to-Case Support Assembly Bolts	12	9	–
Engine Mounting Bolts	75	55	–
Flex Plate-to-Torque Converter Attachment Bolts	62	46	–
Floor Bracket Bolt	8	–	71
Fluid Level Plug	12	–	106
Flywheel Bolts	65	48	–
Frame Bolts	75	55	–
Input Speed Sensor Bolt	12	–	106
Key Interlock Solenoid Screws	2	–	18
Oil Cooler Pipe Bolt	22	16	–
Oil Cooler Pipe Bracket Bolt	25	18	–
Oil Pipe Bolts	12	9	–
Pivot Bolt	58	43	–
Relay Box Securing Nuts	8	–	71
Servo Cover Bolts	12	–	106
Shift Control Assembly Bolts		–	–
Shift Control Cable Adjuster Pinch Bolt Nut	8	–	71
Shift Control Cable Attachment Nut	6	–	53
Shift Control Cable Mounting Bracket Nuts	6	–	53
Shift Control Lever Bolt		–	–
Shift Interlock Solenoid Bolts	–	–	–
Side Cover Bolts	20	15	–
Side-to-Case (Stud) Cover	20	15	–
Speed Sensor Stud	12	9	–
Transaxle Brace Mounting Bolts	75	55	–
Transaxle Mount Bolts	81	60	–
Transaxle Mount Upper Attachment Nut	169	125	–
Transaxle Mounting Bracket Bolt	61	45	–
Transaxle Pan Bolts	12	–	106
Trans Oil-to-Cover LO/Reverse Servo Tube Assembly	12	–	106
Trans Oil-to-Support Forward Clutch Tube Assembly	12	–	106
Valve Body-to-Channel Plate Bolts	12	–	106
Valve Body-to-Channel Plate Pump Bolts	12	–	106
Wiring Harness Retainer Bolt	12	9	–

SPECIAL TOOLS

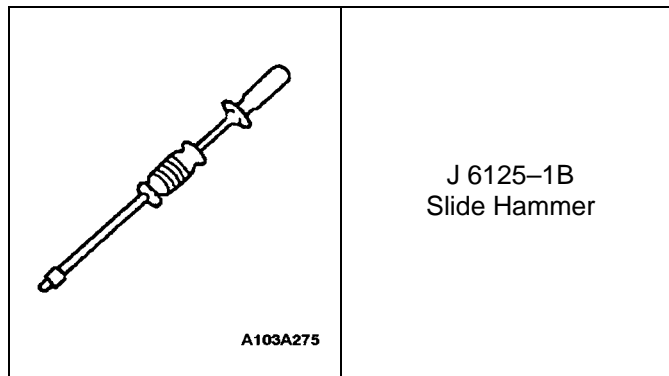
SPECIAL TOOLS TABLE

 <p>A410B026</p>	<p>Scan Tool</p>	 <p>A103A266</p>	<p>J 34142–B Universal Test Lamp</p>
 <p>A103A263</p>	<p>J 21867 Universal Pressure Gauge Set</p>	 <p>A103A267</p>	<p>J 35616 Connector Test Adapter Kit</p>
 <p>A103A264</p>	<p>J 28742–A Weather Pack Terminal Remover</p>	 <p>A103A268</p>	<p>J 35689–A Metri–pack Terminal Remover</p>
 <p>A103A265</p>	<p>J 33095 Control Module Connector Terminal Remover</p>	 <p>A103A269</p>	<p>J 36169–A Fused Jumper Wire</p>



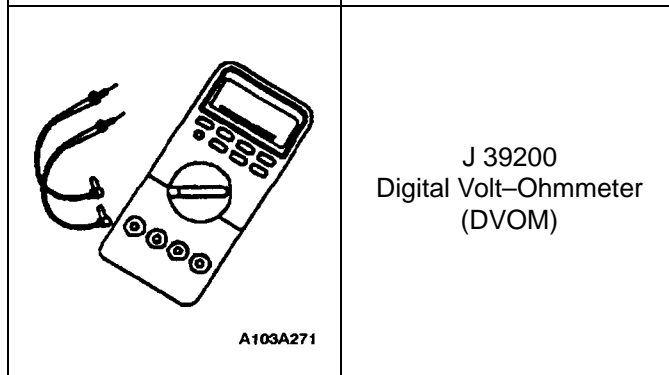
J 38125-4
Terminal Repair Kit

A103A270



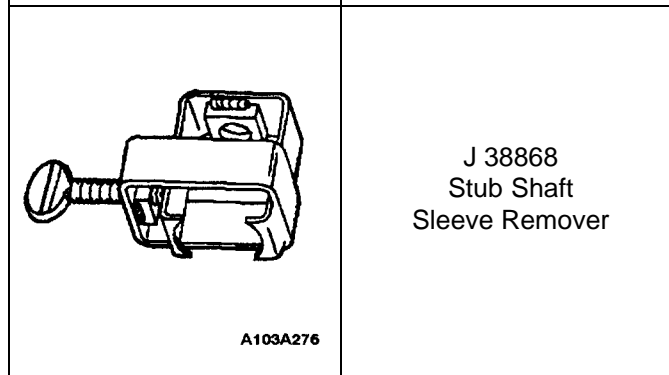
J 6125-1B
Slide Hammer

A103A275



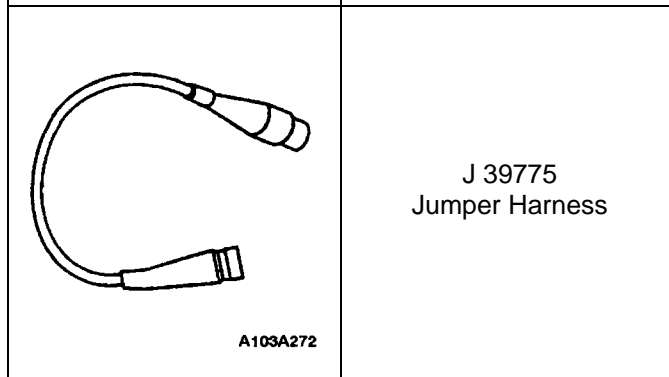
J 39200
Digital Volt-Ohmmeter
(DVOM)

A103A271



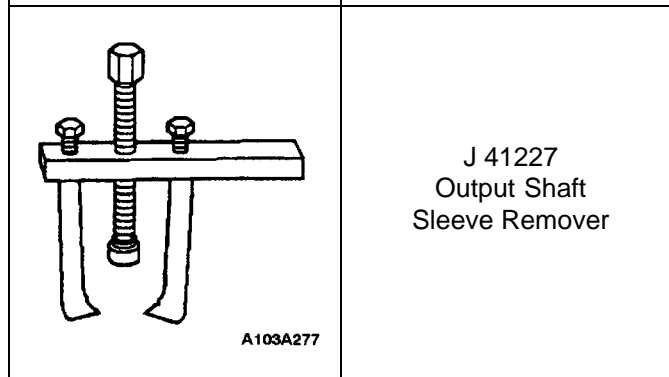
J 38868
Stub Shaft
Sleeve Remover

A103A276



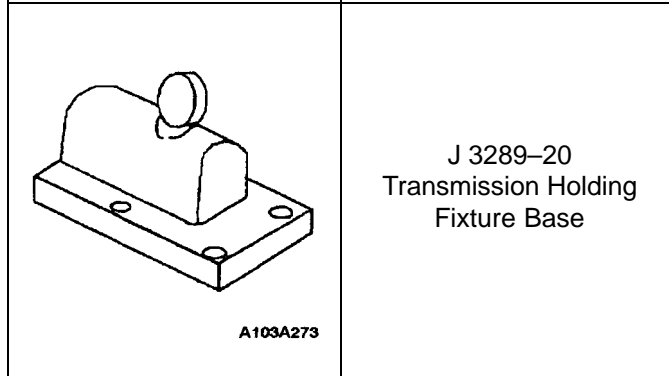
J 39775
Jumper Harness

A103A272



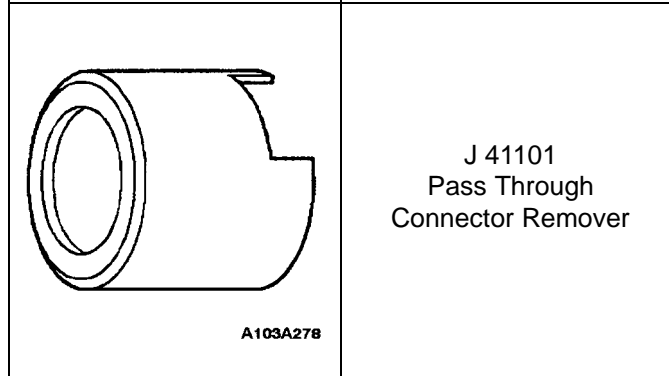
J 41227
Output Shaft
Sleeve Remover

A103A277



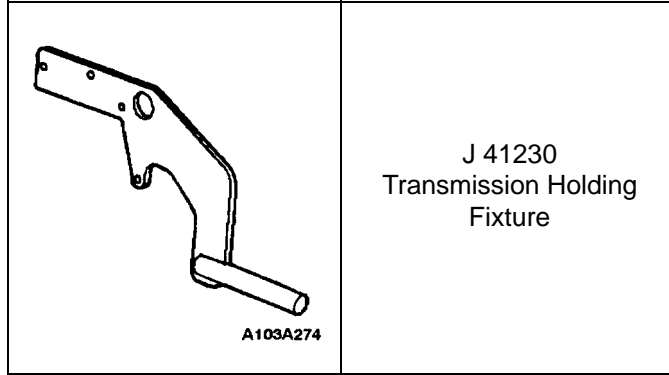
J 3289-20
Transmission Holding
Fixture Base

A103A273



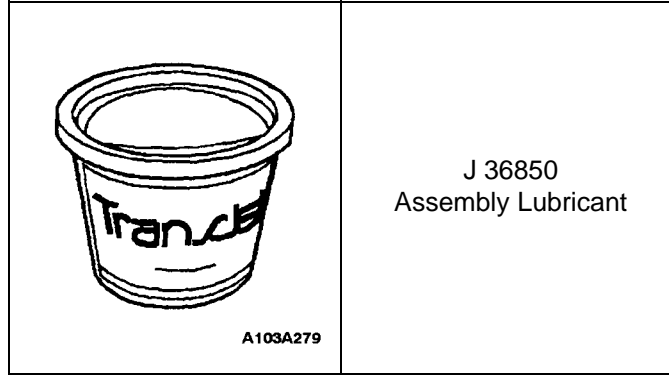
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Pass Through
Connector Remover

A103A278



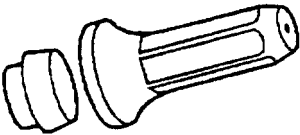
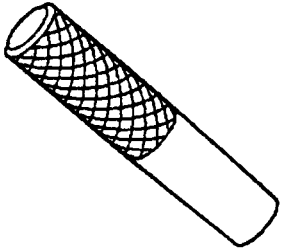
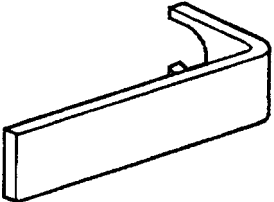
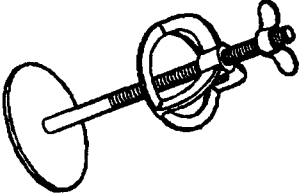
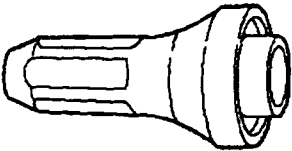
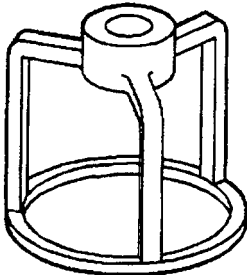
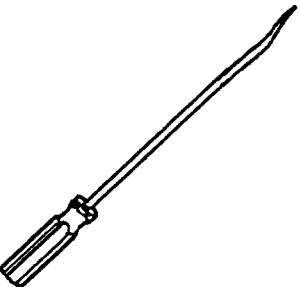
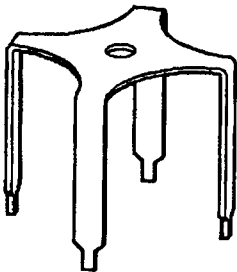
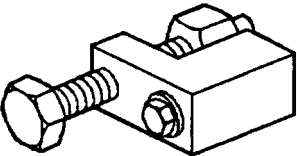
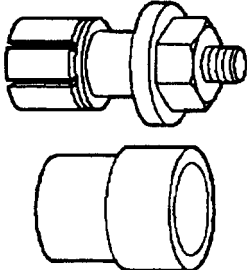
J 41230
Transmission Holding
Fixture

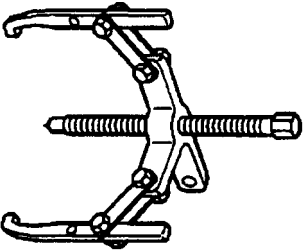
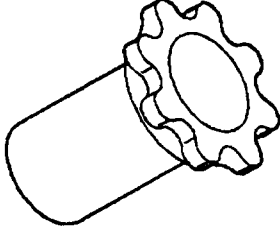
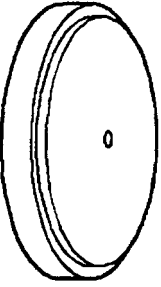
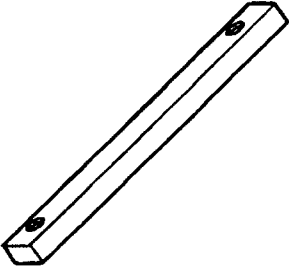
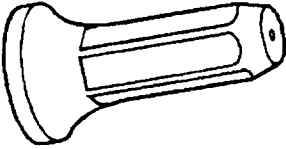
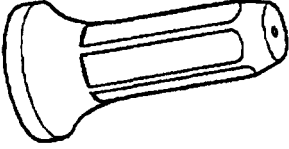
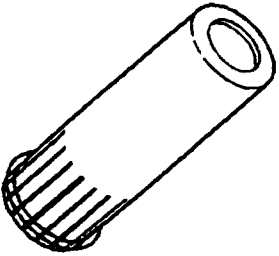
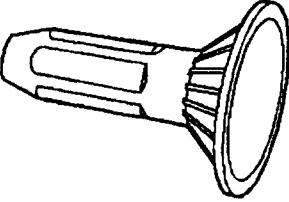
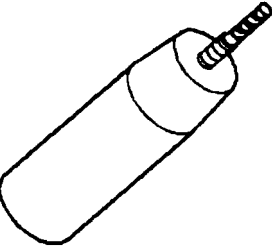
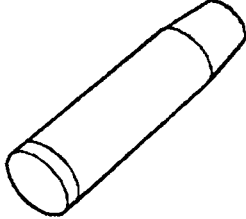
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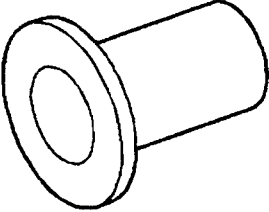
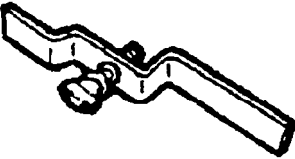


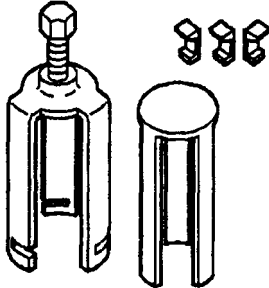
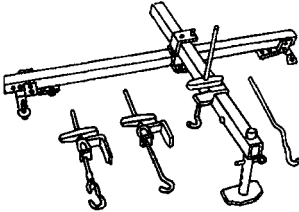
J 36850
Assembly Lubricant

A103A279

 <p>A103A280</p>	<p>J 41102 Axle Seal Installer</p>	 <p>A103A285</p>	<p>J 41229 Manual Shaft to Case Pin</p>
 <p>A103A281</p>	<p>J 41239-2 Cooler Line Seal Remover</p>	 <p>A103A286</p>	<p>J 23327 Clutch Spring Compressor</p>
 <p>A103A282</p>	<p>J 28540-A Torque Converter Seal Installer</p>	 <p>A103A287</p>	<p>J 41236 Coast Clutch Return Spring Compressor Adapter</p>
 <p>A103A283</p>	<p>J 28585 Snap Ring Screwdriver</p>	 <p>A103A288</p>	<p>J 41232 Direct Reverse, Second Clutch Return Spring Compressor Adapter</p>
 <p>A103A284</p>	<p>J 41239-1 Cooler Line Seal Installer</p>	 <p>A103A289</p>	<p>J 41228 Stub Shaft Sleeve Installer</p>

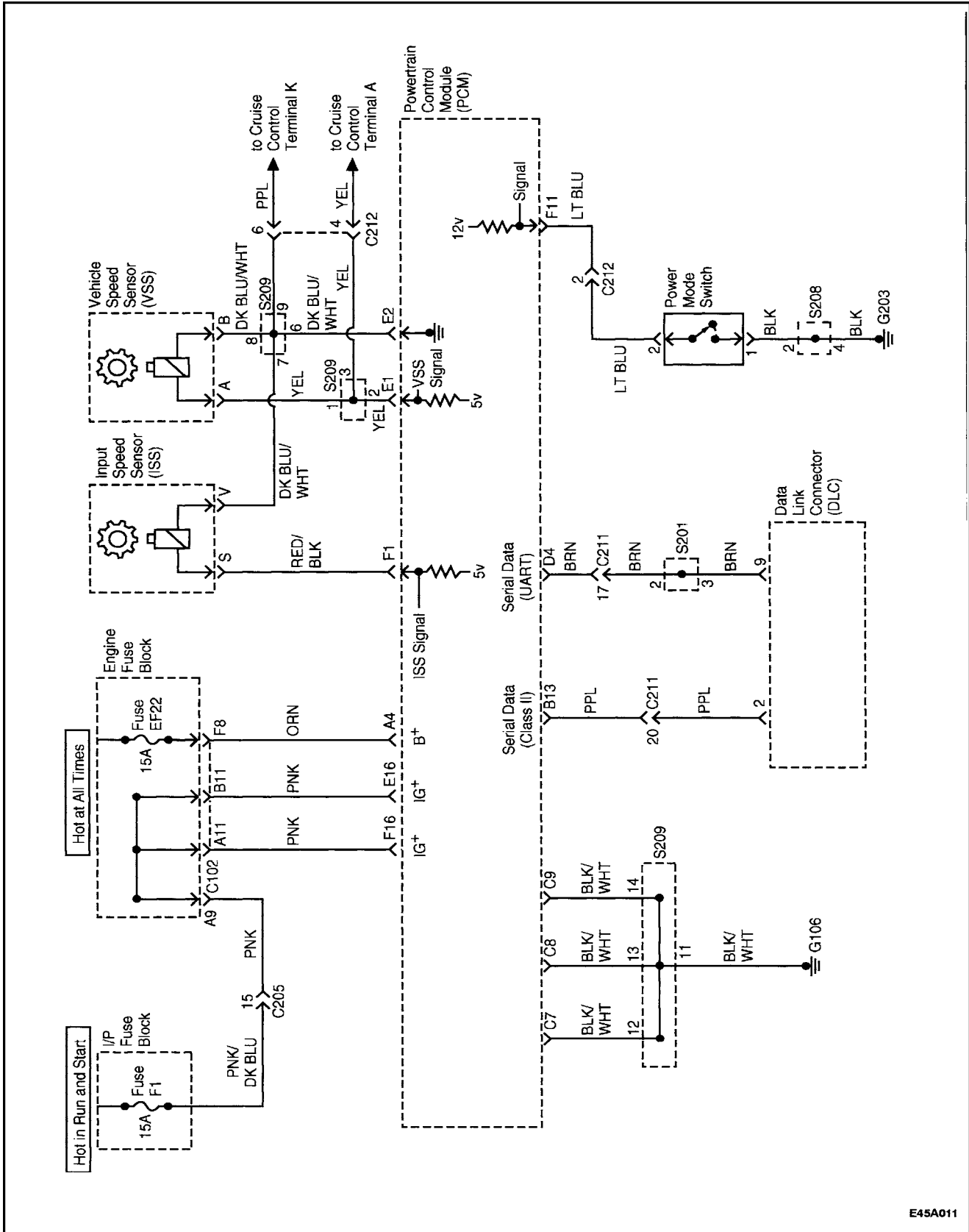
 <p>A103A290</p>	<p>J 25031-A Forward and Reverse Clutch Inner Seal Assembly Remover</p>	 <p>A103A295</p>	<p>J 41234-3 Input Shaft Seal Installer Sizer</p>
 <p>A103A291</p>	<p>J 41097-2 Inner Seal Assembly Remover – Disc</p>	 <p>A103A296</p>	<p>J 34673 Input Shaft End Play Gauge Block</p>
 <p>A103A292</p>	<p>J 41231 Forward Clutch Inner Seal Assembly Installer</p>	 <p>A103A297</p>	<p>J 41233 Reverse Clutch Inner Seal Installer</p>
 <p>A103A293</p>	<p>J 41234-1 Input Shaft Seal Installer Pusher</p>	 <p>A103A298</p>	<p>J 41235 Second Roller Clutch Installer</p>
 <p>A103A294</p>	<p>J 41234-2 Input Shaft Seal Installer Protector</p>	 <p>A103A299</p>	<p>J 29569-1/J 29829-1 Turbine Shaft Seal Installer</p>

 <p>A103A300</p>	<p>J 29569-2/J 29829-2 Turbine Shaft Seal Sizer</p>
 <p>A103A301</p>	<p>J 21366 Torque Converter Holding Strap</p>

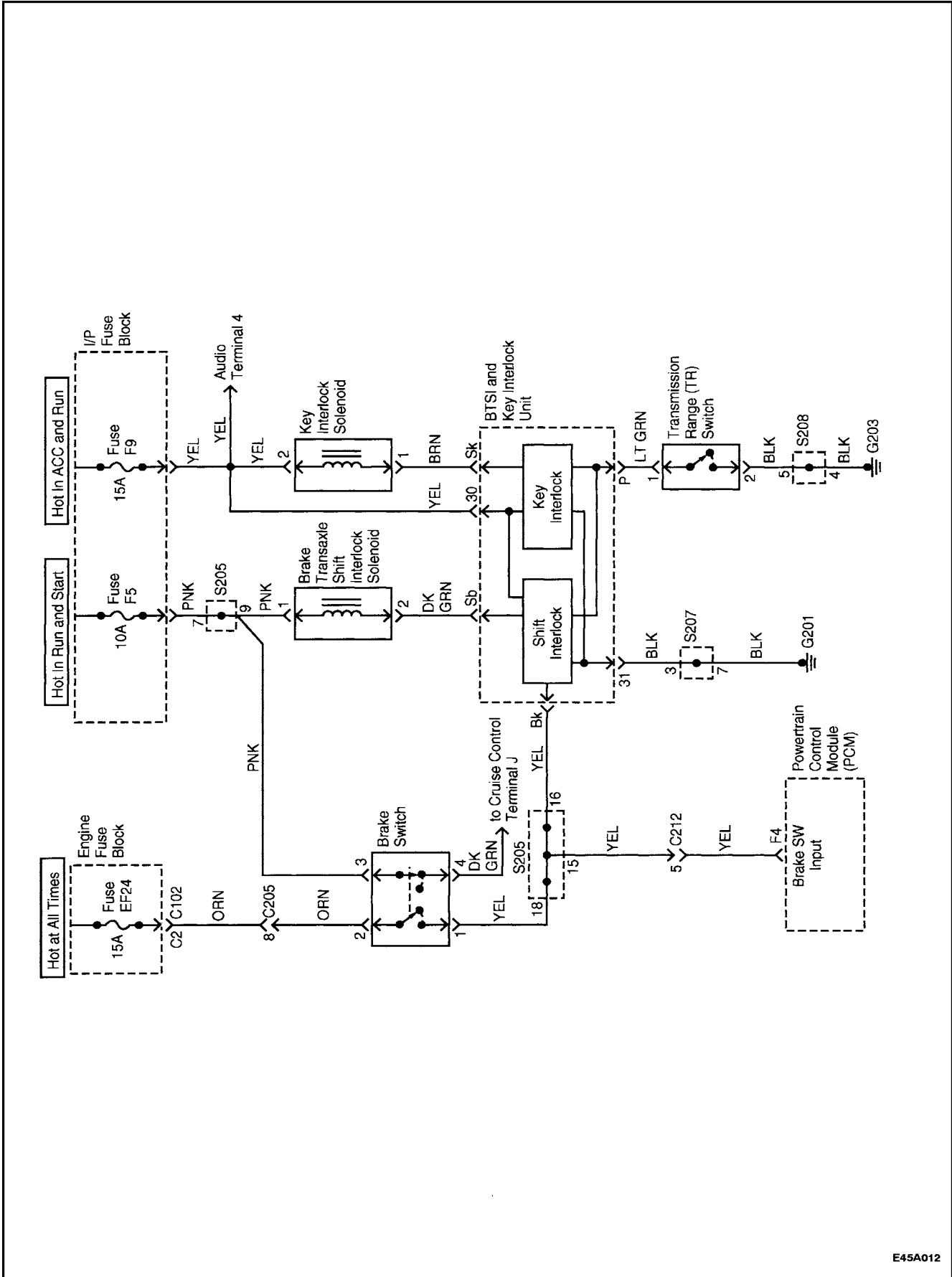
 <p>A103A302</p>	<p>J 41103 Torque Converter Seal Remover Set</p>
 <p>A102B152</p>	<p>J 28467-B Engine Support Fixture</p>

SCHEMATIC AND ROUTING DIAGRAMS

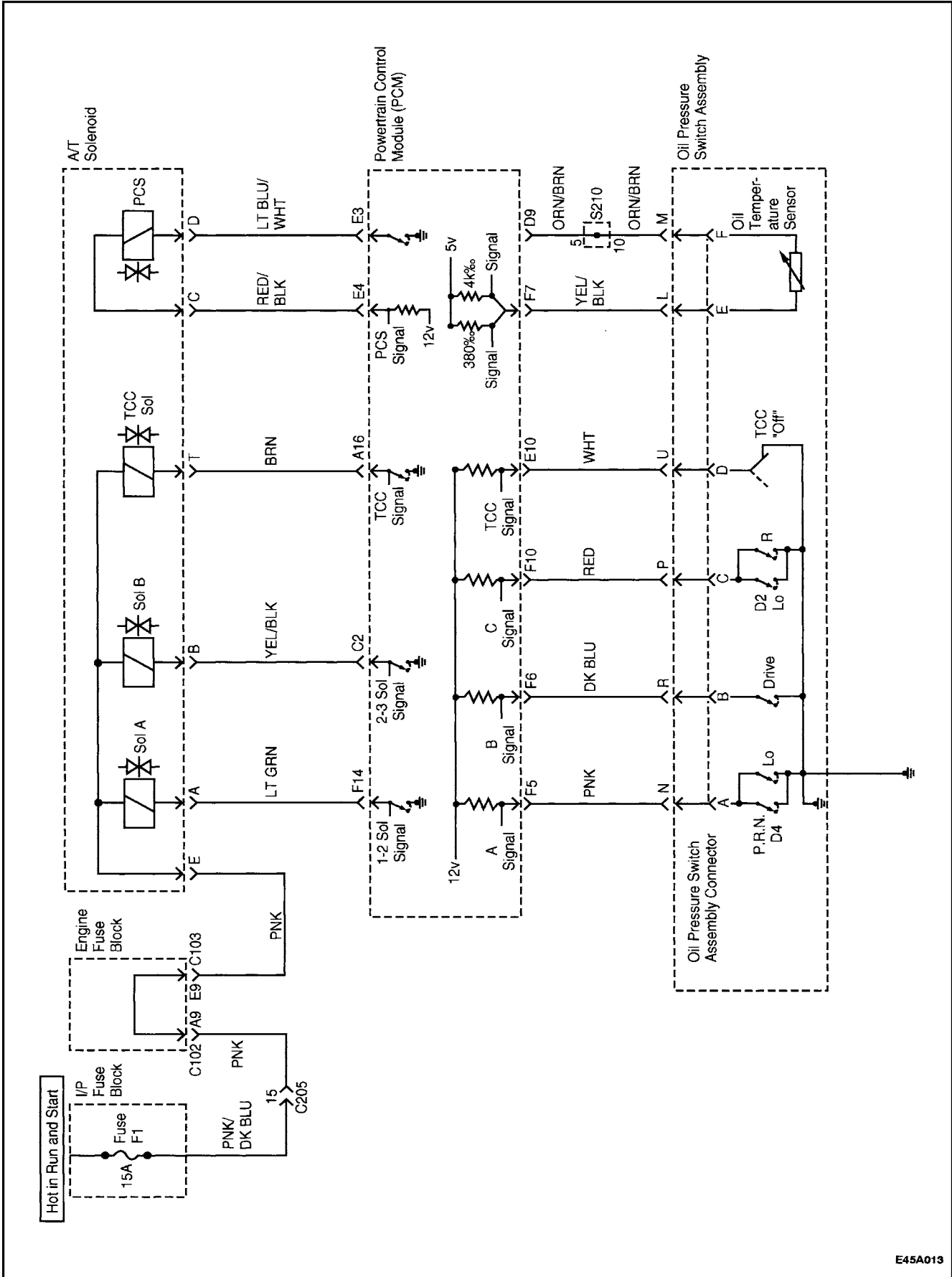
POWERTRAIN CONTROL MODULE (1 OF 3)



POWERTRAIN CONTROL MODULE (2 OF 3)

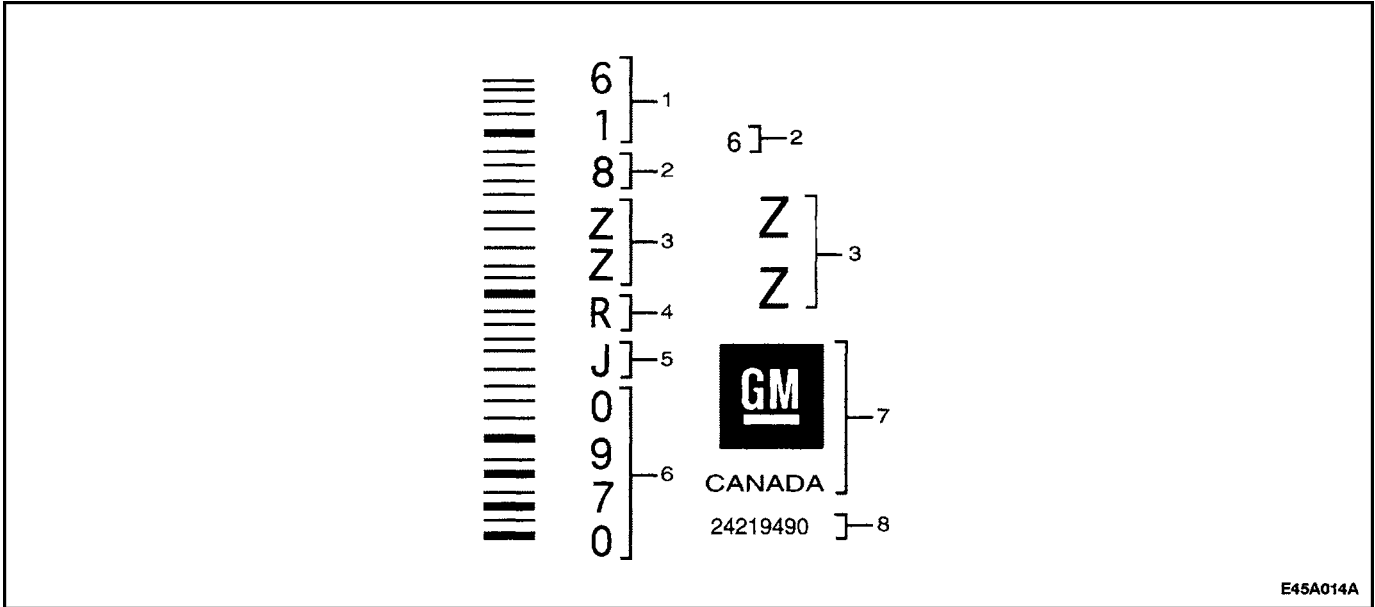


POWERTRAIN CONTROL MODULE (3 OF 3)



VISUAL IDENTIFICATION

TRANSAXLE IDENTIFICATION INFORMATION



E45A014A

1. Assembly Plant (Windsor, Canada)
2. Model Year (1996)
3. Broadcast Code
4. Model Name (4T40E)
5. Update Level

6. Sequential Number
7. Manufacturer
8. Part Number