

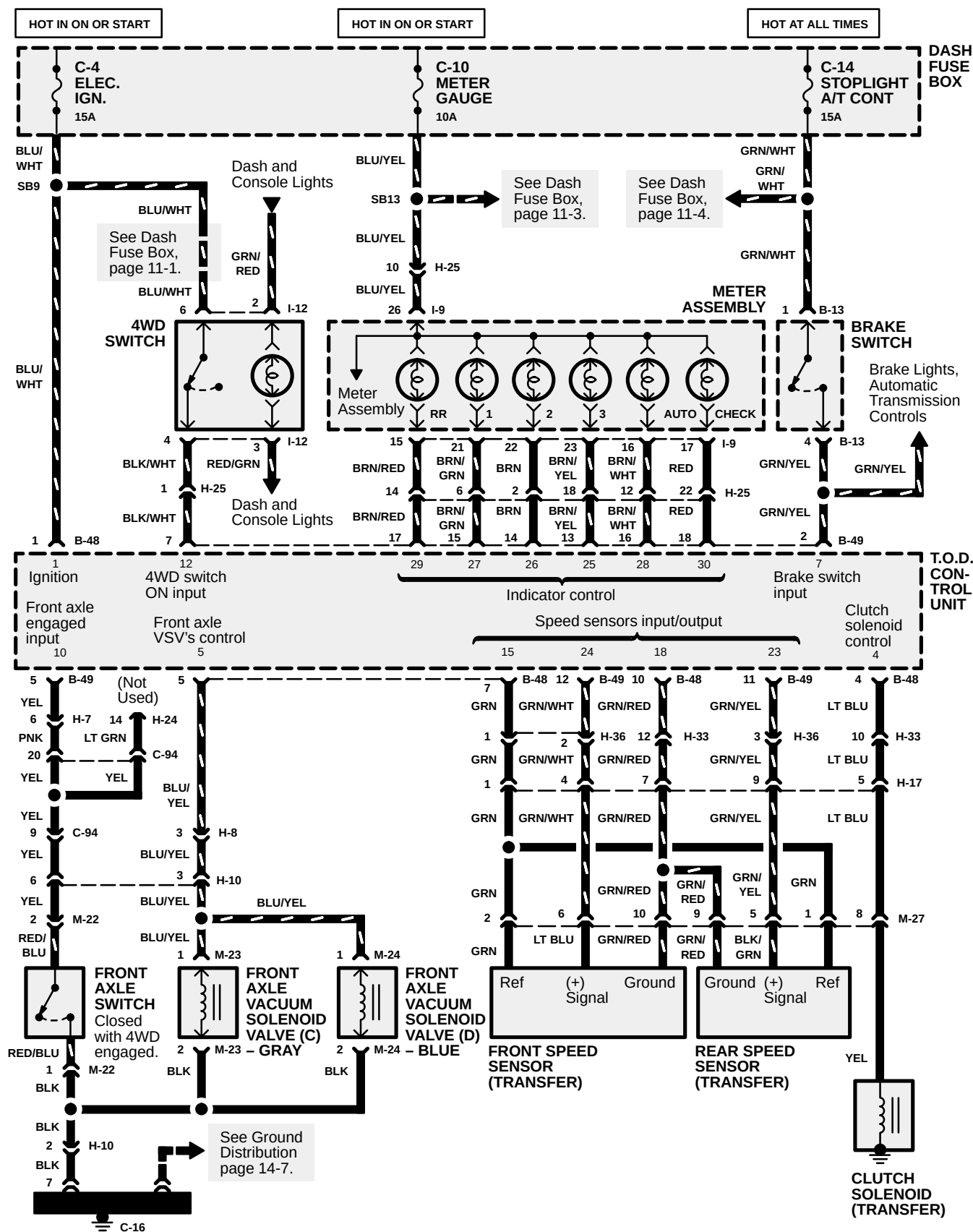
TORQUE ON DEMAND (T.O.D.) SYSTEM

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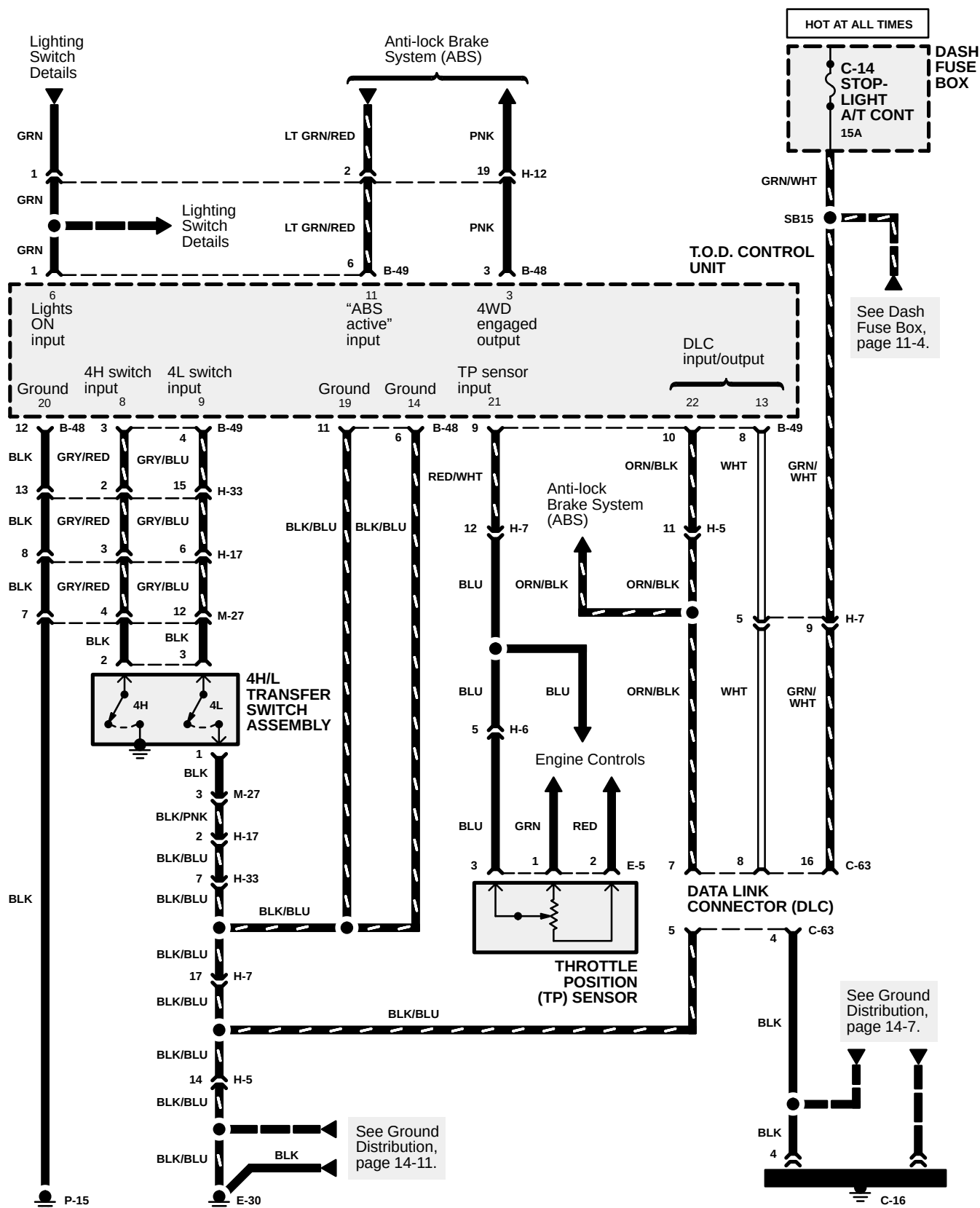
TORQUE ON DEMAND (T.O.D.) SYSTEM

Circuit Schematic



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Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
4H/L Transfer Switch Assembly	On bottom of transfer case 127
Brake Switch	Below I/P, on brake pedal support 74
Clutch Solenoid (Transfer)	In transfer case (see page 4B2-5 of Service Manual)
Dash Fuse Box	Behind left dash side trim panel 55
Data Link Connector (DLC)	
C63 (16-BLK)	Left I/P lower cover, behind access cover 47
Front Axle Switch	Left center of front axle 17
Front Axle Vacuum Solenoid	
Valve (D) - Blue	Center of front axle 9
Front Axle Vacuum Solenoid	
Valve (C) - Gray	Center of front axle 9
Front Speed Sensor	
(Transfer)	On rear of transfer case 129
Rear Speed Sensor	
(Transfer)	On rear of transfer case 129
Throttle Position (TP) Sensor	Top front of engine, on air intake assembly 10
T.O.D. Control Unit	Below right front seat 125
Connector	
C-94 (22-GRN)	Behind front console 62
H-5 (16-GRN)	Left side of engine compartment 33
H-6 (16-BLU)	Left side of engine compartment 33
H-7 (20-BRN/WHT)	Below I/P, above left dash side trim panel, on bracket 69
H-8 (16-WHT)	Below I/P, above left dash side trim panel, on bracket 70
H-10 (16-BLU)	Left front of engine compartment 27
H-12 (20-WHT)	Below I/P, above right dash side trim panel, on bracket 100
H-17 (9-WHT)	Beneath right front seat 50
H-24 (18-YEL)	Below I/P, above left dash side trim panel, on bracket 70
H-25 (22-BLU)	Below I/P, above left dash side trim panel, on bracket 71
H-33 (20-WHT)	In floor, below right front seat 110
H-36 (3-GRY)	Below right front seat 110
I-9 (30-GRN)	On left top of meter assembly 53
M-22 (2-BRN)	Center of front axle 17
M-27 (12-BLK)	On top of transfer case 128
Ground	
C-16	Left rear corner of engine compartment, on inner fender panel 39
E-30	Top right rear of engine 16
P-15	On top of transfer case, on shift lever bracket 19

Circuit Operation

Battery voltage from fusible link G is applied at all times to the coil and contacts of the Tail 1 relay. With the light switch in PARK or HEAD, the coil of the T/LP relay is grounded through the light switch. The T/LP relay energizes. Battery voltage is then applied from the closed contacts of the Tail 1 relay through fuses T/LP LH and T/LP RH to the lights and all the lights go on.

With the Hazard switch in the OFF position, battery voltage is applied from fuse 9 to the turn/hazard flasher. The solid-state flasher unit senses the turn switch position and alternately applies and removes battery voltage to the turn switch with the hazard switch in the NORM position. Voltage is applied to the left turn or right turn lights and indicators dependent upon the turn switch position.