

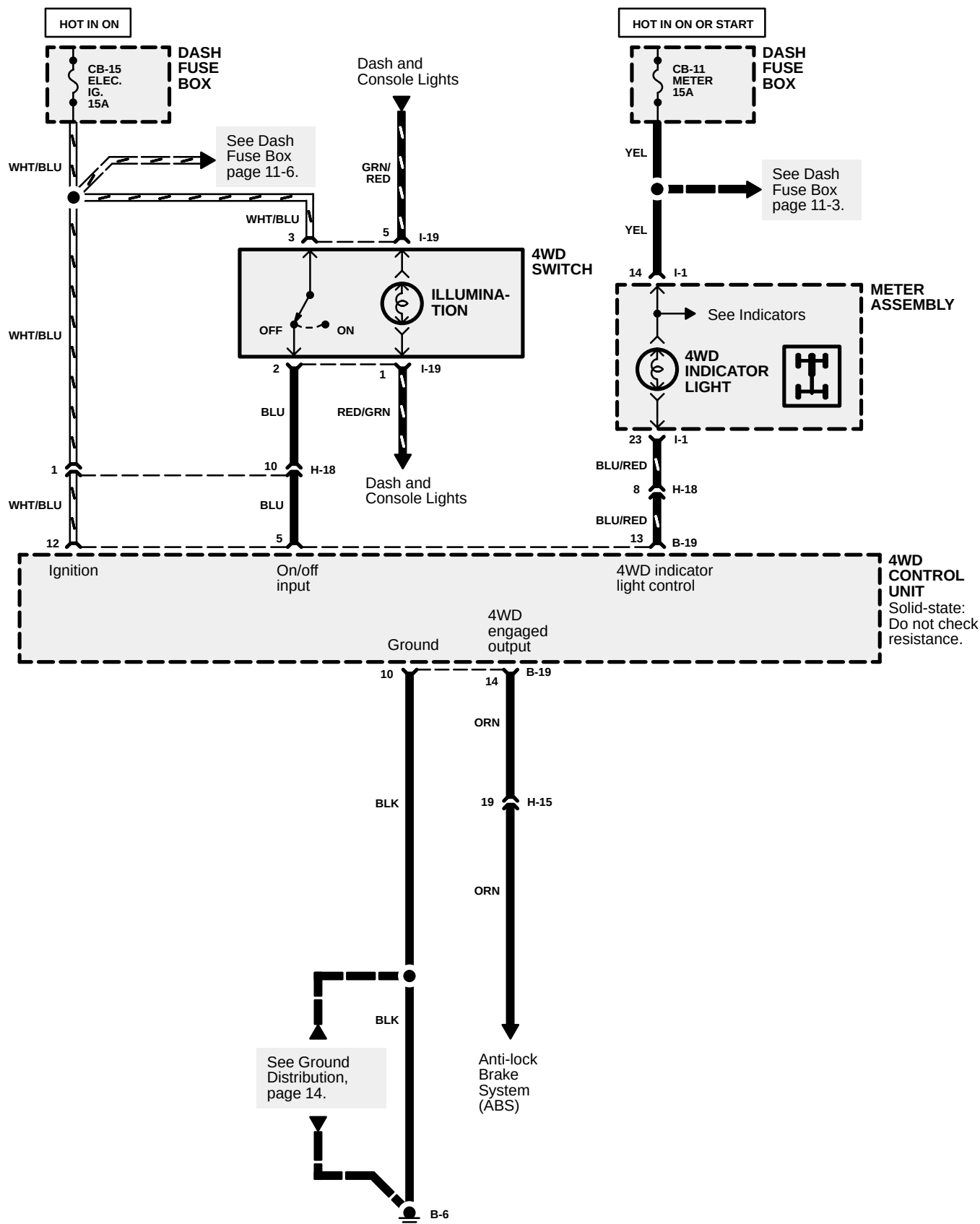
SHIFT-ON-THE-FLY SYSTEM

Component Index

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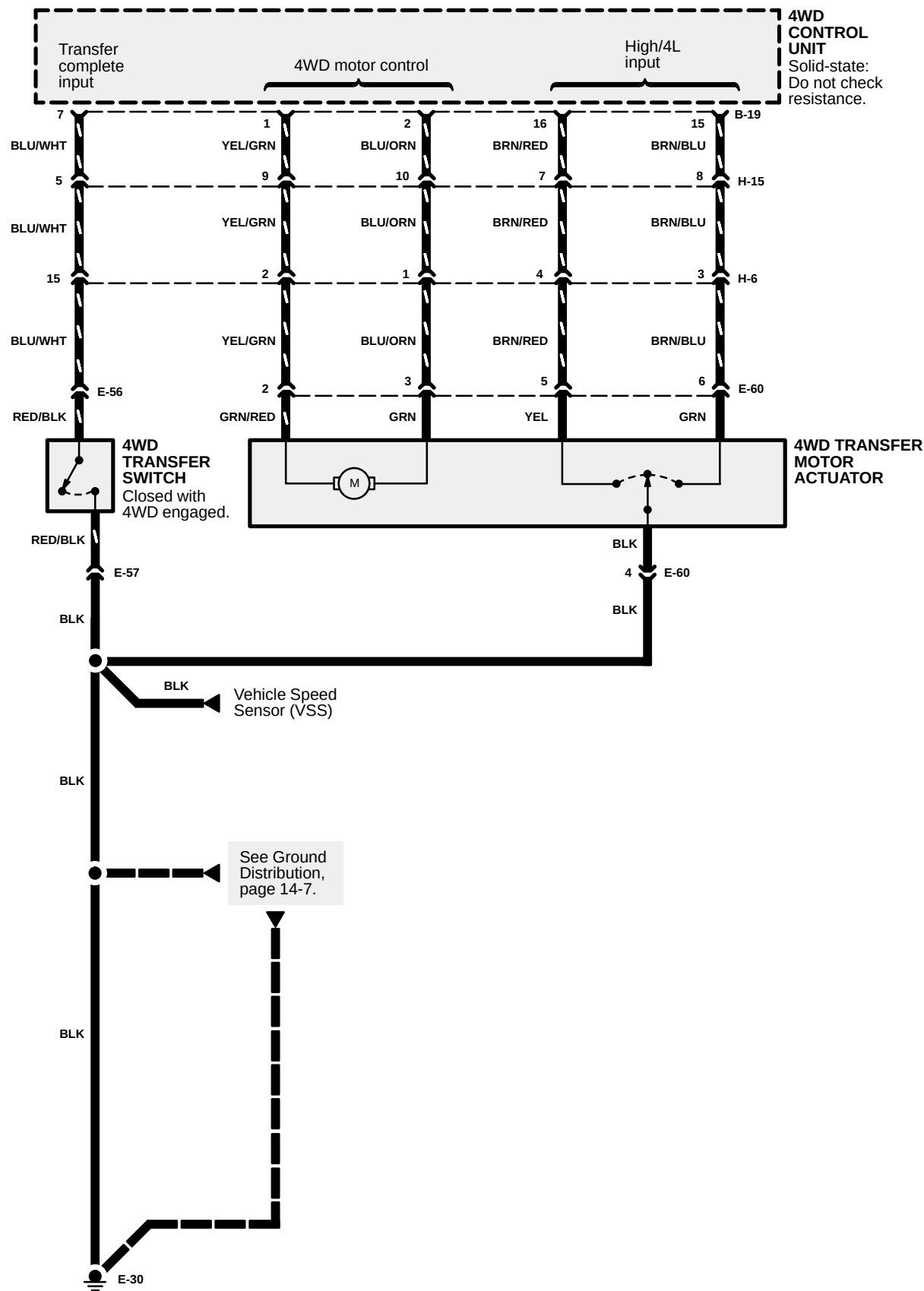
SHIFT-ON-THE-FLY SYSTEM

Circuit Schematic



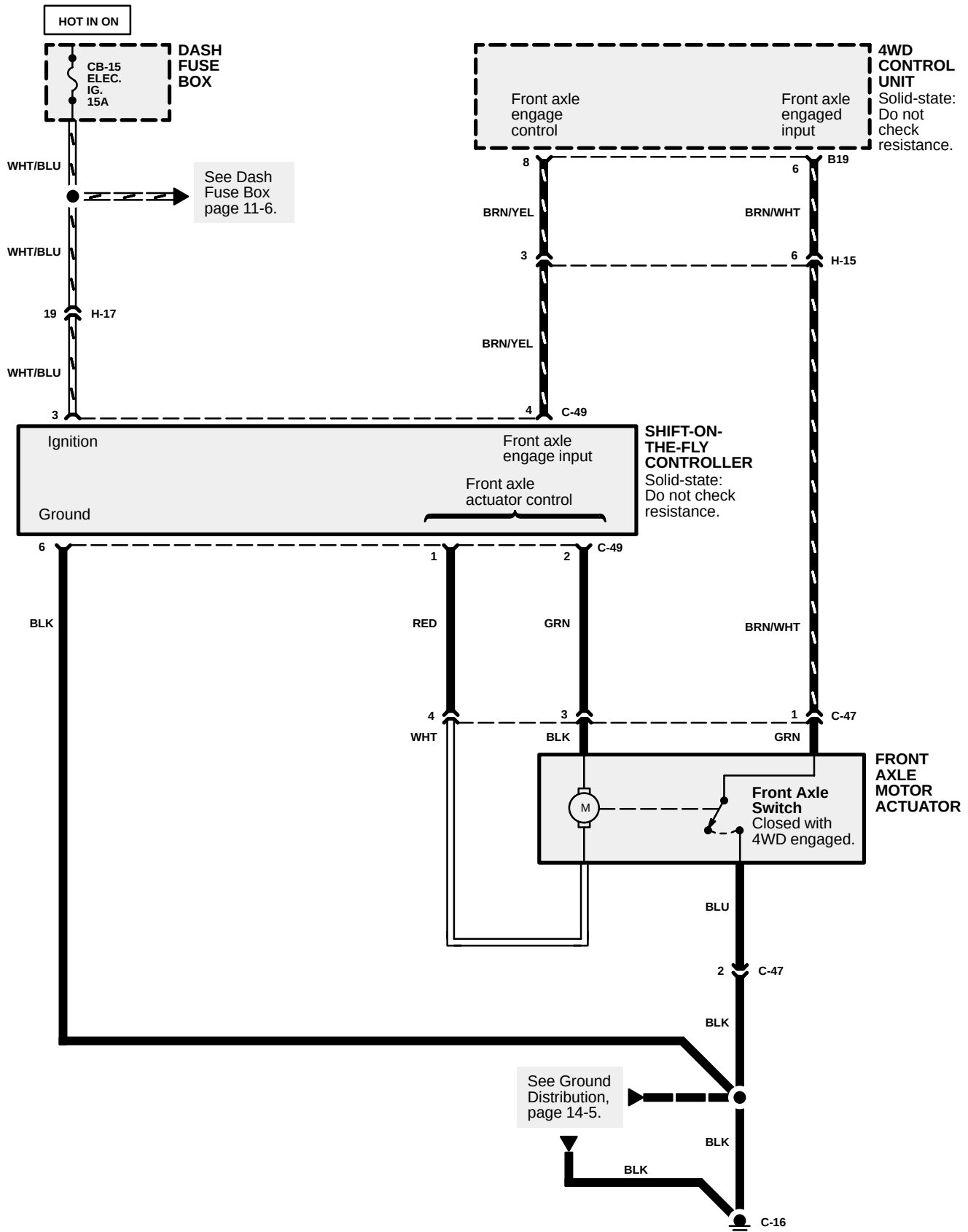
SHIFT-ON-THE-FLY SYSTEM

Circuit Schematic



SHIFT-ON-THE-FLY SYSTEM

Circuit Schematic



SHIFT-ON-THE-FLY SYSTEM

Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
4WD Control Unit	Below center console 81
4WD Transfer Motor Actuator . . .	Beneath center of vehicle, on transfer case 120
4WD Transfer Switch (A/T)	Beneath vehicle, on right side of transfer case 108
Dash Fuse Box	Left side of I/P, behind panel 58
Front Axle Motor Actuator	Left side of front axle 122
Shift-On-The-Fly Controller	Right side of driver's footwell 136
Connector	
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E-56 (1-WHT)	On right side of transfer case 107
E-57 (1-WHT)	On right side of transfer case 107
E-60 (6-GRY)	Underneath center of vehicle, rear of transfer case 120
H-6 (16-BLU)	Left side of engine compartment 27
H-15 (20-BLU)	Behind left kick panel 63
H-17 (19-BLK)	Behind left kick panel 62
H-18 (22-WHT)	Behind right kick panel 80
I-1 (30-GRN)	Behind left side of I/P, on top of meter assembly 86
Ground	
B-6	Below center console 81
C-16	Left rear corner of engine compartment, on inner fender panel 43
E-30	Right side of intake manifold 21

Circuit Operation

With the starter switch in ON position, the 4WD control unit is powered so that, when the 4WD switch is depressed, the 4WD transfer motor actuator is activated, connecting the front wheels to the driving axle. This feature enables the shifting from 2WD to 4WD while the vehicle is in motion, but only when transfer control lever is in 4H position.