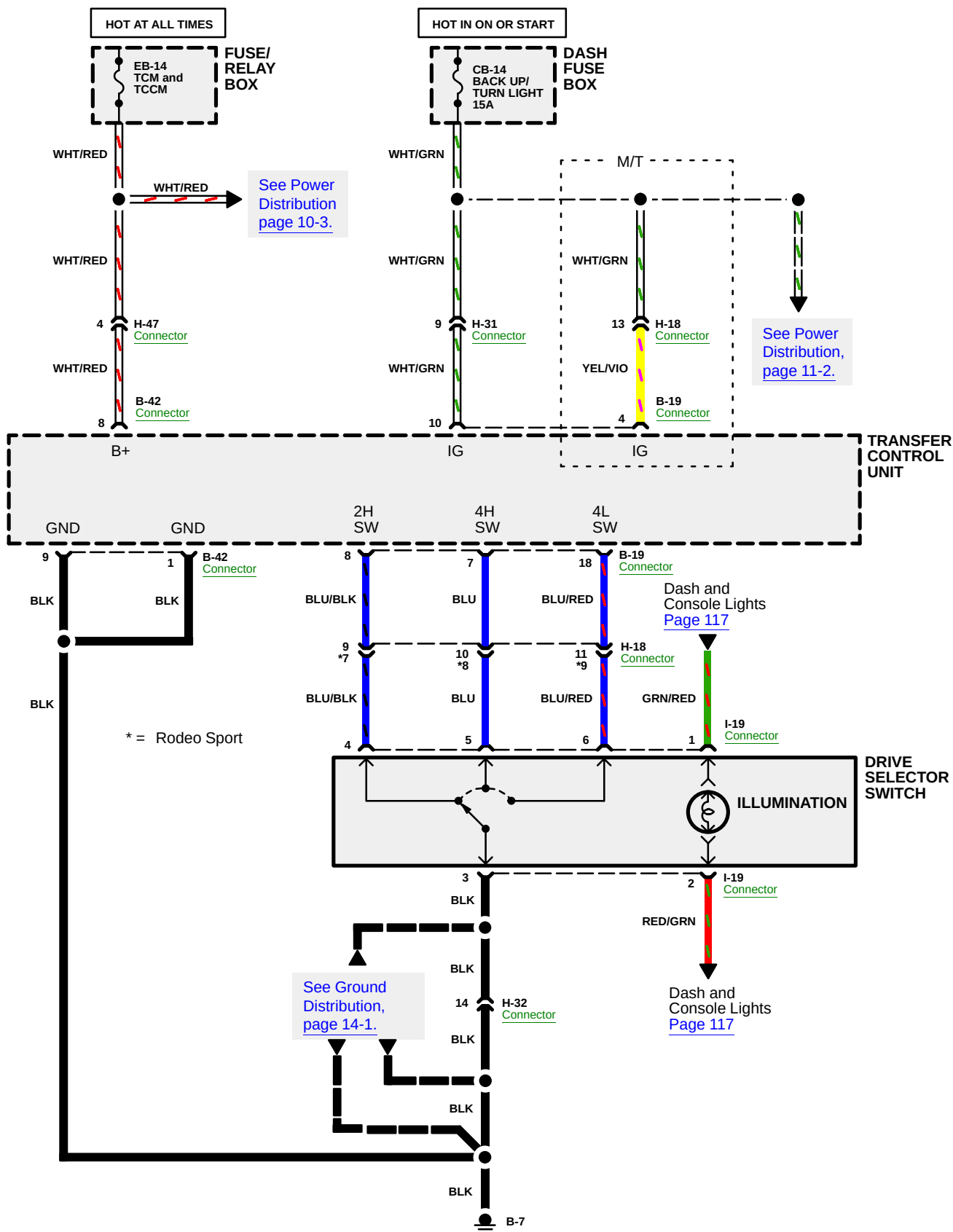


Master Index	Power Distribution	Ground Distribution	Harness Routing Views	Connector Views	
SHIFT-ON-THE-FLY SYSTEM Component Index 2-4WD Switch A/T M/T Dash Fuse Box Drive Selector Switch Electronic Brake Control Module (EBCM) Front Axle Motor Actuator Fuse/Relay Box Meter Assembly Neutral Switch Transfer Actuator A/T M/T Transfer Control Unit Transmission Control Module (TCM)					
Master Index	Power Distribution	Ground Distribution	Harness Routing Views	Connector Views	Contd

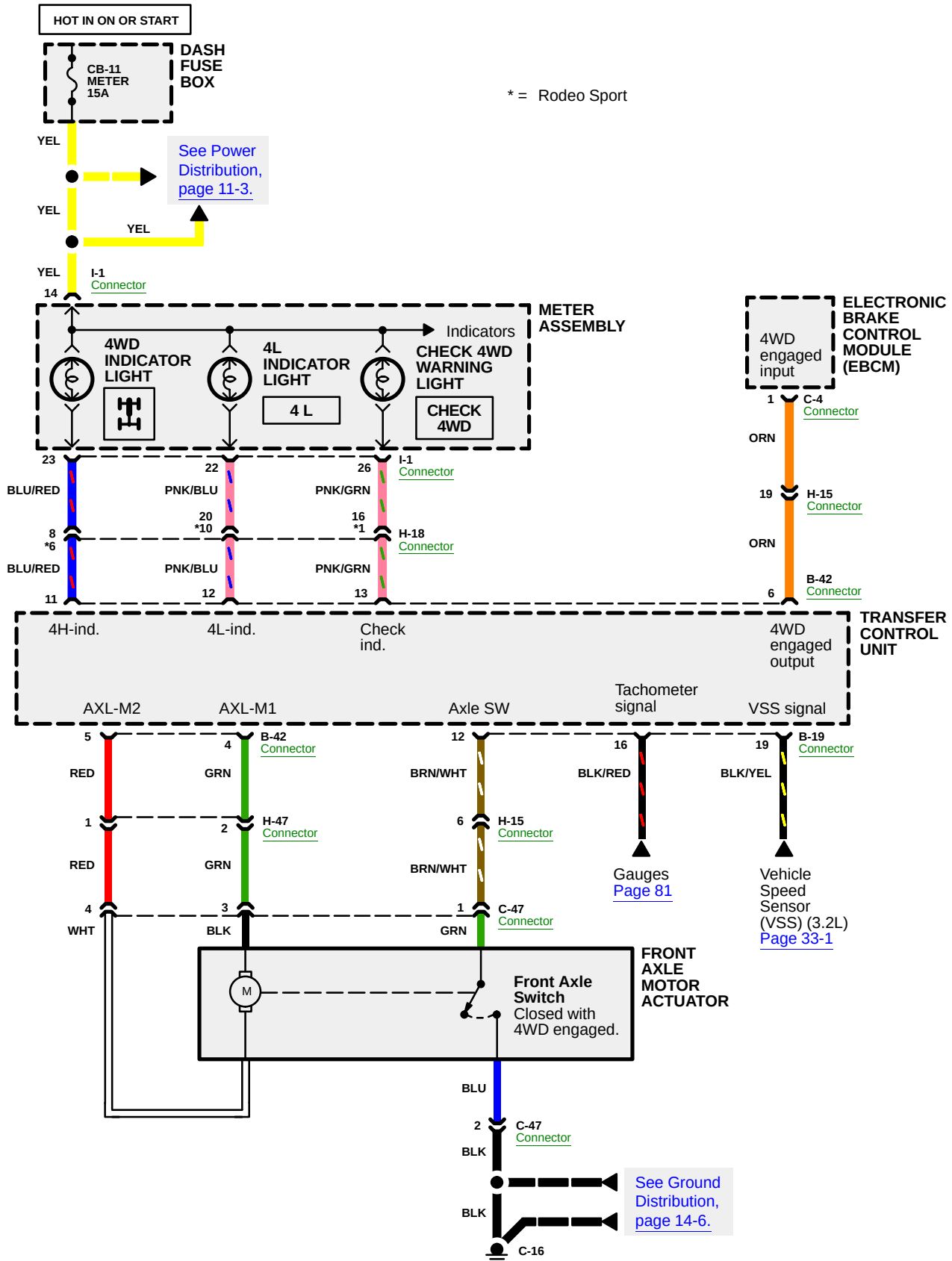
SHIFT-ON-THE-FLY SYSTEM

Circuit Schematic



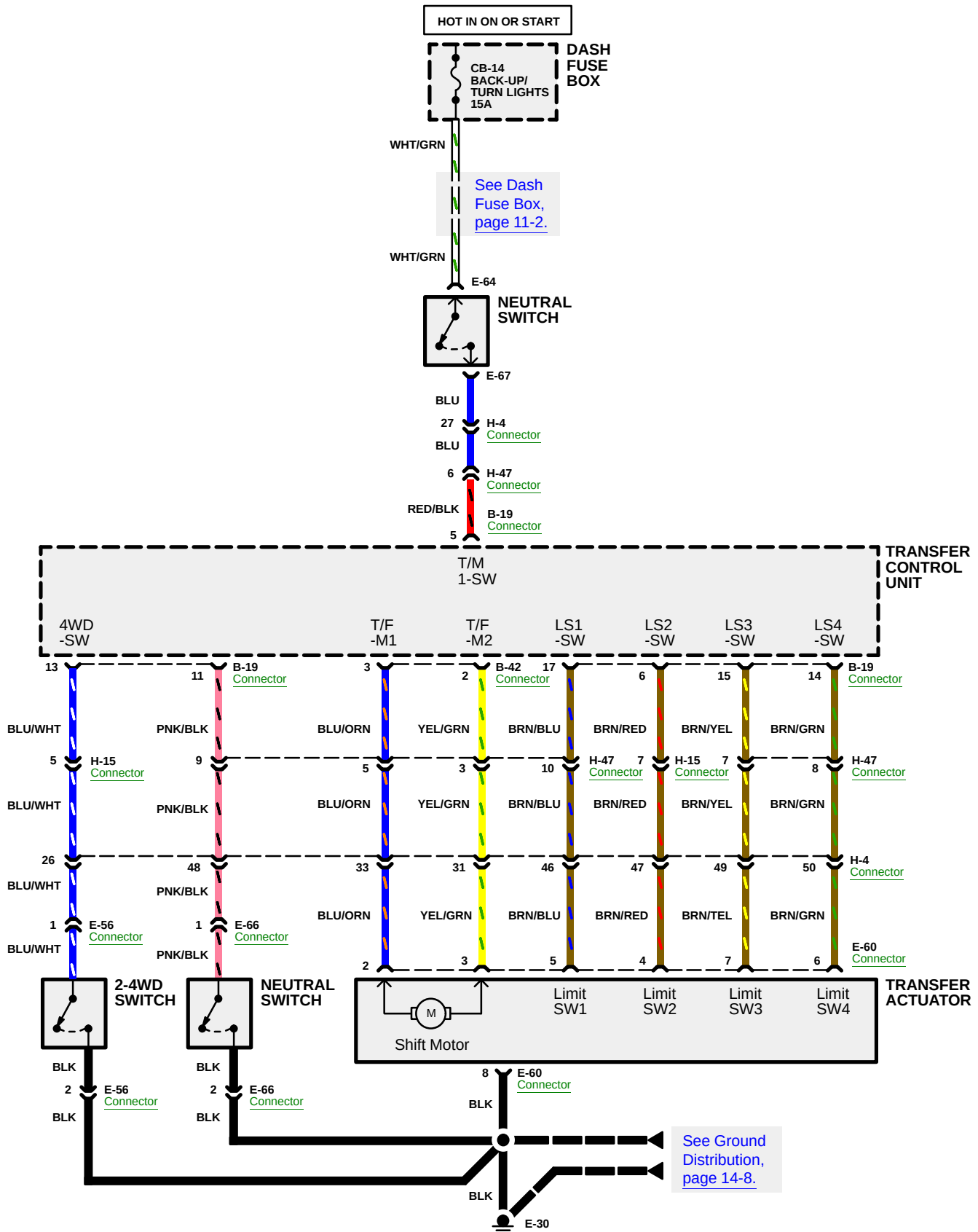
SHIFT-ON-THE-FLY SYSTEM

Circuit Schematic



SHIFT-ON-FLY SYSTEM: M/T

Circuit Schematic



SHIFT-ON-THE-FLY SYSTEM

Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
Dash Fuse Box	Left side of I/P, behind panel 58
Front Axle Motor Actuator	Left side of front axle 122
Neutral Switch	On transfer case
Transfer Actuator (A/T)	Rear of Automatic Transmission 155
Transfer Actuator (M/T)	Beneath center of vehicle, on transfer case 120
Transfer Control Unit	Below center console 81
Connector	
C-47 (4-GRY)	Lower left side of engine 70
E-60 (6-GRY)	Underneath center of vehicle, rear of transfer case 120
E-56	On transfer case
E-66	On transfer case
H-4 (52-GRY)	Left side of engine compartment 27
H-15 (20-BLU)	Behind left kick panel 63
H-18 (22-WHT) LWB	Behind right kick panel 80
H-18 (12-WHT) SWB	Behind right kick panel 80
H-31 (22-WHT)	Behind left kick panel 63
H-32 (16-WHT)	Behind left kick panel 62
H-47 (10-BRN)	Behind left kick panel 62
H-48 (16-BLK)	Left front of engine compartment 151
M-25 (2-GRY)	Right side of transmission 152
M-26 (2-BRN)	Right side of transmission 152
I-1 (30-GRN)	Behind left side of I/P, on top of meter assembly 86
Ground	
B-7	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

The shift on the fly system switches between 2 wheel drive (2WD) and 4 wheel drive (4WD) electrically by the driver pressing the 4WD switch (rotary type) on instrument panel.

1. Shifting the transfer front output gear (Connecting to, and disconnecting from, front propeller shaft by motor actuator).
2. Retrial of shifting the transfer front output gear.
3. Connecting front wheels to, and disconnecting them from, the front axles by axle motor actuator.
4. Indicator on instrument panel.
5. 4WD out signal to other Electronic Hydraulic Control Units.