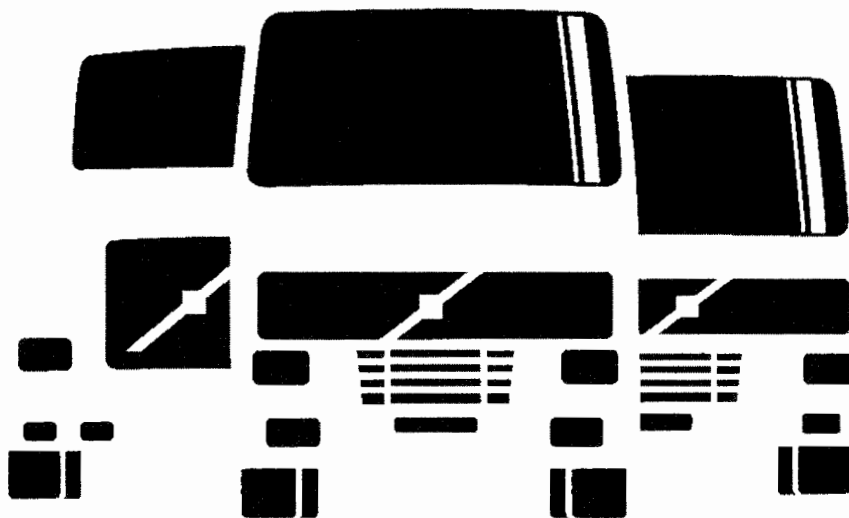


Service Manual Trucks

Group **37**
Electrical Schematic:
Eaton Autoshift II

VN
From Build Date 8.99

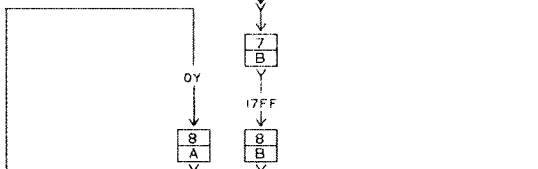


BATTERY 12 VOLT
IGNITION 12 VOLT
ACCESSORY 12 VOLT

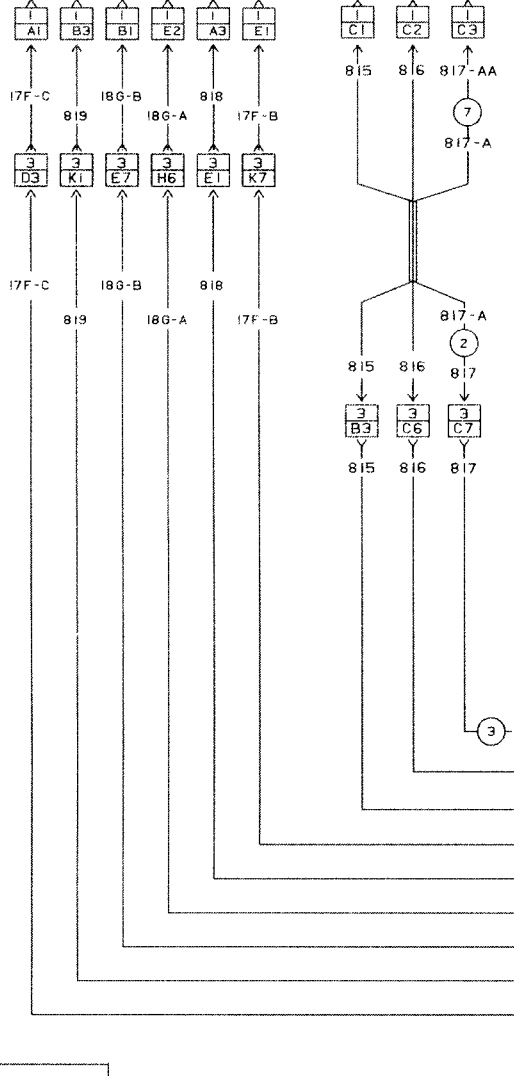
▬ DENOTES J1939 JACKETED CABLE

↔ DENOTES TWISTED PAIR

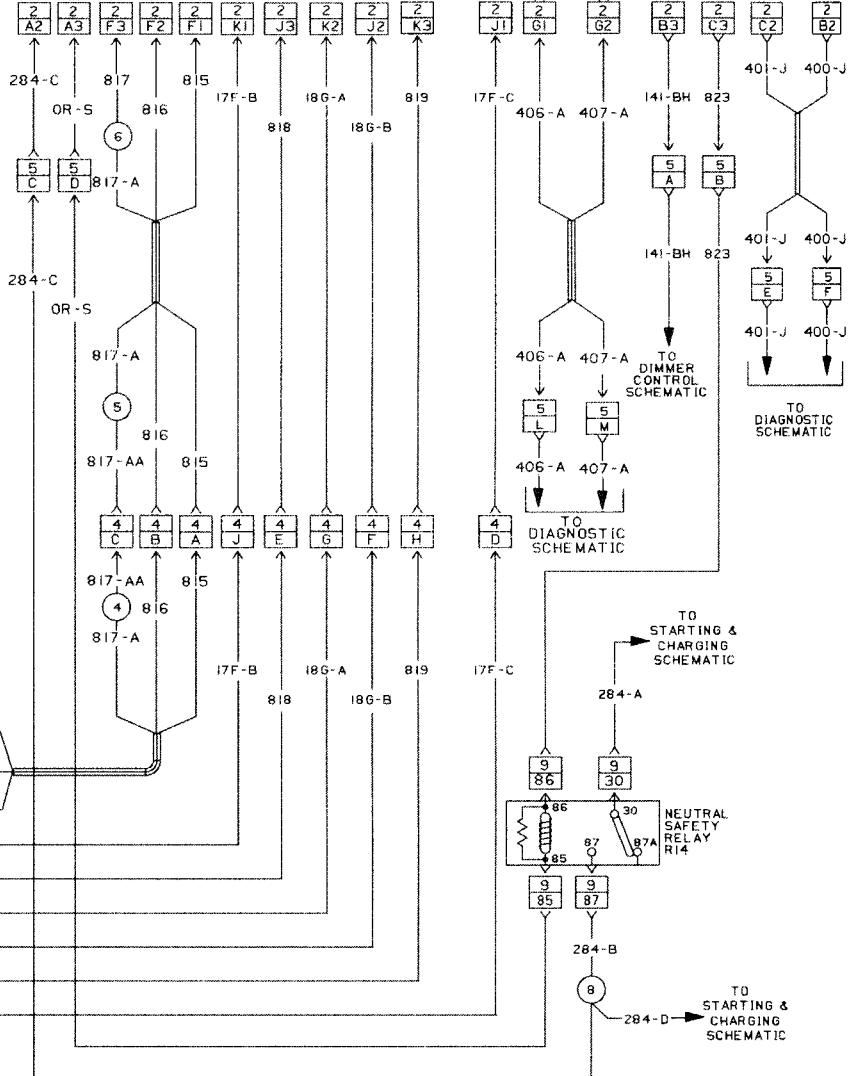
SPLICE LOCATION CHART		
SPLICE	HARNESS	LOCATION
1	CAB	35MM FROM "M" BRANCH
2	ENGINE	75MM FROM CAB PASS THRU
3	CAB	75MM FROM ENGINE PASS THRU
4	CAB	75MM FROM SHIFT CONTROL CONNECTOR(TRANS)
5	SEAT HARNESS	75MM FROM SHIFT CONTROL CONNECTOR(TRANS)
6	SEAT HARNESS	75MM FROM AS2 ECU
7	ENGINE	150MM FROM TRANS ECU CONNECTOR
8	CAB	25MM FROM PASSTHROUGH BRANCH



TRANSMISSION CONTROLLER



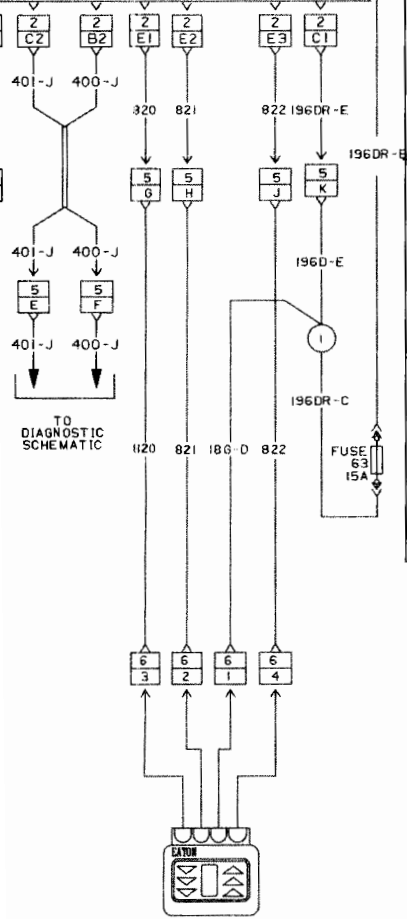
SHIFT CONTROLLER



Eaton Autoshift II - VN

CONNECTOR(TRANS)
CONNECTOR(TRANS)
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CONTROLLER



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CONNECTOR AND SPLICE INFORMATION
CONNECTORS VIEWED FROM CABLE ENTRY

**CONNECTOR 1
TRANSMISSION CONNECTOR**

CAVITY	CIRCUIT	FUNCTION
A1	17F-C	BATT1
A3	818	TRANS-GND
B1	186-B	+VBATT
B3	819	TRANS-GND
C1	815	EPL-HIGH
C2	816	EPL-LOW
C3	817-AA	EPL-SHIELD
E1	17F-B	BATT 2
E2	186-A	+VBATT2

**CONNECTOR 2
SHIFT CONTROLLER**

CAVITY	CIRCUIT	FUNCTION
A2	284-C	START EN LATCH
A3	OR-S	SHIFT CONT GROUND
B2	400-J	ATA (+)
B3	141-BH	VDASH
C1	196DR-E	VIGN
C2	401-J	ATA (-)
C3	823	START EN(+)
E1	820	CLOCK (+)
E2	821	DATA (-)
E3	822	GEAR DISPLAY POWER (-)
F2	816	EPL-LOW
F3	817	EPL-SHIELD
G1	406-A	J1939 CAN + H
G2	407-A	J1939 CAN - L
J2	186-B	+VBATT
J3	818	TRANS-GND
K1	17F-B	BATT 2
K2	186-A	+VBATT2
K3	819	TRANS-GND

**CONNECTOR 3
ENGINE HARNESS PASS THROUGH**

CAVITY	CIRCUIT	FUNCTION
B3	815	EPL-HIGH
C6	816	EPL-LOW
C7	817	EPL-SHIELD
D9	17F-C	BATT1
E1	818	TRANS-GND
E7	186-B	+VBATT
H6	186-A	BATT 2
K1	819	TRANS-GND
K7	17F-B	BATT 2

**CONNECTOR 4
DISPLAY UNIT ADAPTER**

CAVITY	CIRCUIT	FUNCTION
A	815	EPL-HIGH
B	816	EPL-LOW
C	817-AA	EPL-SHIELD
D	17F-C	BATT1
E	818	TRANS-GND
F	186-B	+VBATT1
G	186-A	+VBATT2
H	819	TRANS-GND
J	17F-B	BATT 2

**CONNECTOR 5
DISPLAY UNIT ADAPTER**

CAVITY	CIRCUIT	FUNCTION
A	141-BH	VDASH
B	823	START EN(+)
C	284-C	START EN LATCH
D	OR-S	SHIFT CONT GROUND
E	401-J	ATA (-)
F	400-J	ATA(+)
G	820	CLOCK(+)
H	821	DATA (-)
J	822	GEAR DISPLAY POWER (-)
K	196D-E	VIGN
L	406-A	DATA LINK LOW SAE J1939
M	407-A	DATA LINK HIGH SAE J1939

**CONNECTOR 6
GEAR DISPLAY**

CAVITY	CIRCUIT	FUNCTION
1	186-D	GEAR DISPLAY POWER (+)
2	821	DATA(-)
3	820	CLOCK(-)
4	822	GEAR DISPLAY POWER(-)

**CONNECTOR 7
INLINE FUSE**

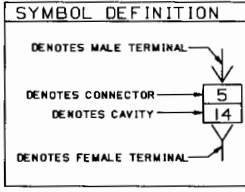
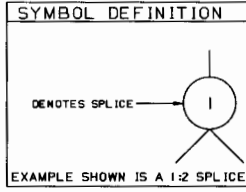
CAVITY	CIRCUIT	FUNCTION
A	17F	BATT2
B	17FF	TRANS POWER

**CONNECTOR 8
TRANSMISSION**

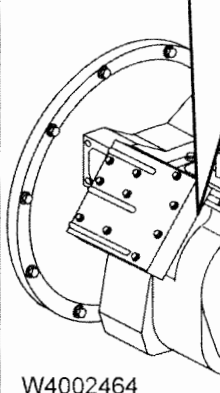
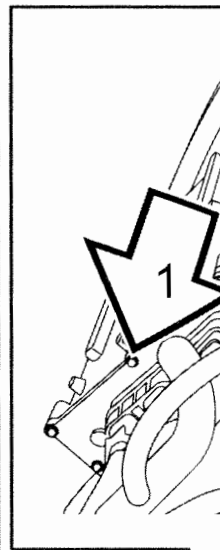
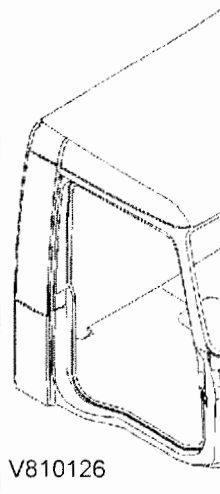
CAVITY	CIRCUIT	FUNCTION
A	0Y	GROUND
B	17FF	TRANS POWER

**CONNECTOR 9
NEUTRAL SAFETY RELAY, R14**

CAVITY	CIRCUIT	FUNCTION
30	284-A	12 VOLT FEED
85	OR-S	GROUND
86	823	START EN(+)
87	284-B	12V SOLENOID FEED



CHAN	
EFFECTIVE DATE	DESCRIPTION



CHANGE HISTORY	
DESCRIPTION	

