

Service Manual Trucks

Group 37

Electrical Schematic:

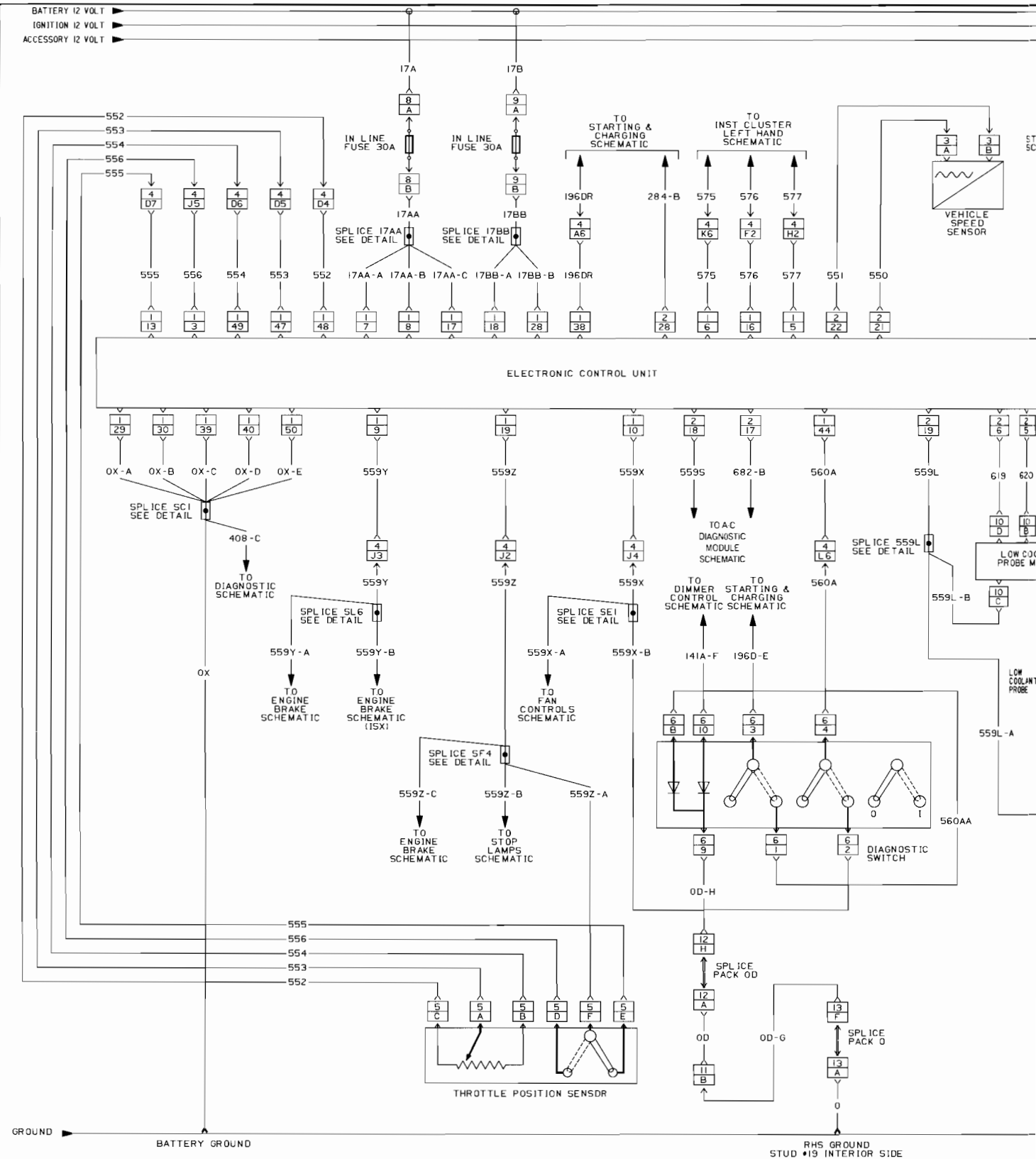
Engine ECU,

Cummins ISX

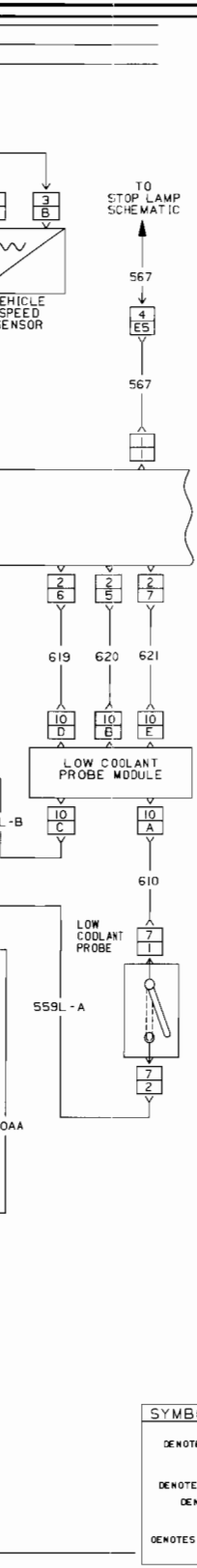
VNL, VNM

From Build Date 9.98





Engine ECU, Cummins ISX - VNL, VNM



CONNECTOR AND SPLICE INFORMATION CONNECTORS VIEWED FROM CABLE ENTRY

CONNECTOR 1 ENGINE ECU

CAVITY	CIRCUIT	FUNCTION
1	567	SERVICE BRAKE RELEASED
3	556	OFF IDLE
5	577	MAINTENANCE LAMP ON
6	575	STOP LAMP ON
7	17AA-A	ECM POWER SUPPLY
8	17AA-B	ECM POWER SUPPLY
9	559Y	DASHBOARD RETURN 2
10	559X	DASHBOARD RETURN 1
13	555	ON IDLE
16	576	WARNING LAMP ON
17	17AA-C	ECM POWER SUPPLY
18	17BB-A	ECM POWER SUPPLY
19	559Z	CAB RETURN
28	17BB-B	ECM POWER SUPPLY
29	0X-A	ECM SUPPLY RETURN
30	0X-B	ECM SUPPLY RETURN
38	196DR	KEY ON
39	0X-C	ECM SUPPLY RETURN
40	0X-D	ECM SUPPLY RETURN
44	560A	DIAGNOSTICS ENABLE
47	553	CAB THROTTLE POSITION
48	552	THROTTLE +5V SUPPLY
49	554	THROTTLE +5V RETURN
50	0X-E	ECM SUPPLY RETURN

CONNECTOR 5 THROTTLE POSITION SENSOR

CAVITY	CIRCUIT	FUNCTION
A	553	THROTTLE POSITION INPUT
B	554	THROTTLE POSITION RETURN
C	552	THROTTLE POSITION SUPPLY
D	556	THROTTLE VALIDATION INPUT
E	555	IDLE VALIDATION
F	559Z-A	GROUND

CONNECTOR 6 DIAGNOSTIC SWITCH

CAVITY	CIRCUIT	FUNCTION
B	560AA	DASH ILLUMINATION
1	560AA	DASH ILLUMINATION
2	559X-B	GROUND
3	196D-E	12 VOLT SUPPLY
4	560A	DIAGNOSTICS ENABLE
9	0D-H	GROUND
10	141A-F	DASH ILLUMINATION

CONNECTOR 7 LOW COOLANT PROBE

CAVITY	CIRCUIT	FUNCTION
1	610	ENGINE COOLANT LEVEL FEED
2	559L	GROUND

CONNECTOR 8 INLINE FUSE

CAVITY	CIRCUIT	FUNCTION
A	17A	12 VOLT SUPPLY
B	17AA	12 VOLT SUPPLY

CONNECTOR 9 INLINE FUSE

CAVITY	CIRCUIT	FUNCTION
A	17B	12 VOLT SUPPLY
B	17BB	12 VOLT SUPPLY

CONNECTOR 10 LOW COOLANT PROBE MODULE

CAVITY	CIRCUIT	FUNCTION
A	610	ENG. COOLANT SWITCH SIGNAL
B	620	COOLANT LEVEL NORMAL
C	559L-B	GROUND
D	619	GROUND
E	621	COOLANT LEVEL MODULE FEED

CONNECTOR 11 OPTION CONNECTOR

CAVITY	CIRCUIT	FUNCTION
B	0D	GROUND

CONNECTOR 12 SPLICE PACK 0D

CAVITY	CIRCUIT	FUNCTION
A	0D	GROUND
H	0D-H	GROUND

CONNECTOR 13 SPLICE PACK 0

CAVITY	CIRCUIT	FUNCTION
A	0	GROUND
F	0D-G	GROUND

CONNECTOR 2 ELECTRONIC CONTROL MODULE FEED

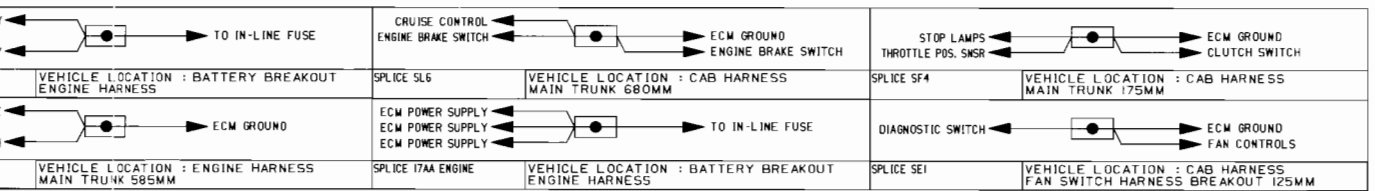
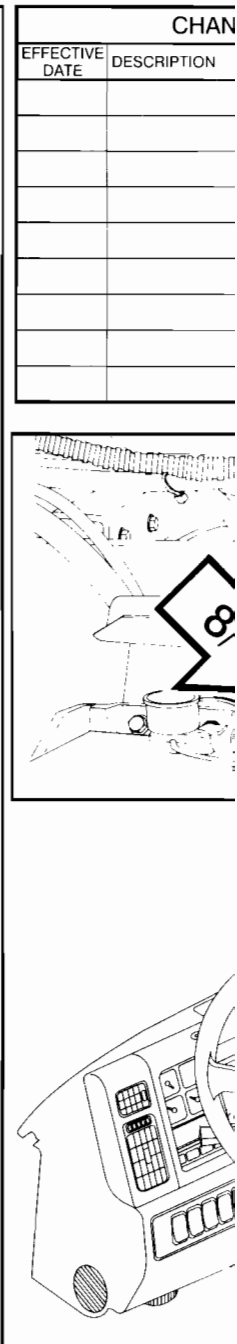
CAVITY	CIRCUIT	FUNCTION
5	620	COOLANT DETECTED
6	619	COOLANT NOT DETECTED
7	621	COOLANT LEVEL +5V SUPPLY
17	682-B	AC PRESSURE NOT HIGH
18	559S	AC PRESSURE RETURN
19	559L	COOLANT LEVEL RETURN
21	550	VEHICLE SPEED (+)
22	551	VEHICLE SPEED (-)
28	284-B	START COMMAND

CONNECTOR 3 SPEED SENSOR

CAVITY	CIRCUIT	FUNCTION
A	550	VEHICLE SPEED INPUT
B	551	VEHICLE SPEED RETURN

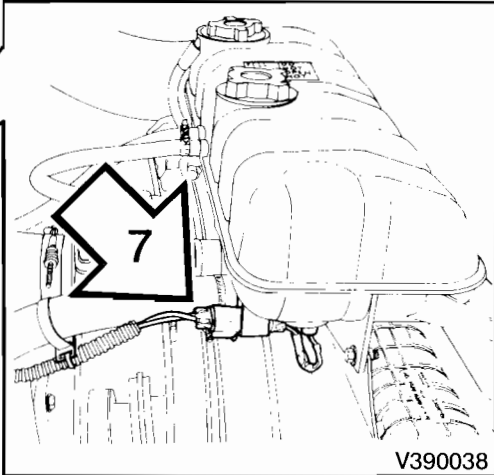
CONNECTOR 4 ENGINE HARNESS PASS THROUGH

CAVITY	CIRCUIT	FUNCTION
A6	196DR	IGNITION SIGNAL
D4	552	THROTTLE POSITION SUPPLY
D5	553	THROTTLE POSITION INPUT
D6	554	THROTTLE POSITION RETURN
D7	555	IDLE VALIDATION
F5	567	SERVICE BRAKE RELEASED
F2	576	CAUTION LAMP
H2	577	ENGINE FLUIDS LAMP
J2	559Z	GROUND
J3	559Y	GROUND
J4	559X	GROUND
J5	556	THROTTLE VALIDATION INPUT
K6	575	STOP ENGINE WARNING LAMP
L6	560A	DIAGNOSTICS ENABLE

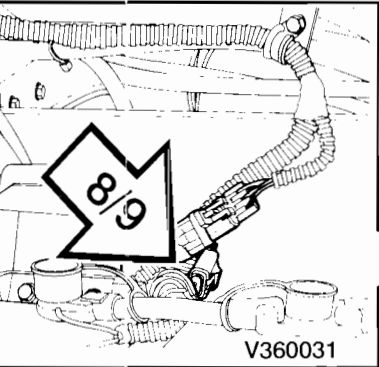


CHANGE HISTORY	
DESCRIPTION	

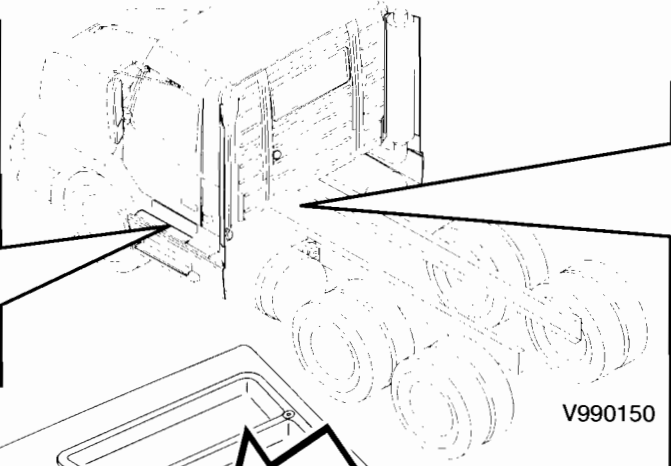
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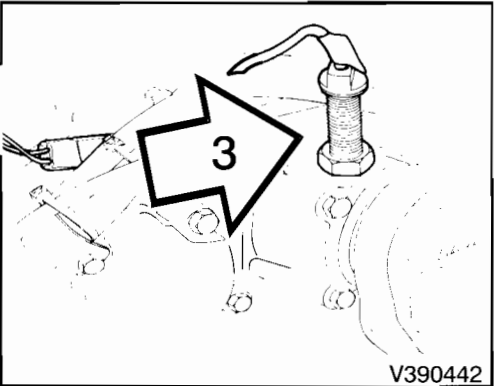
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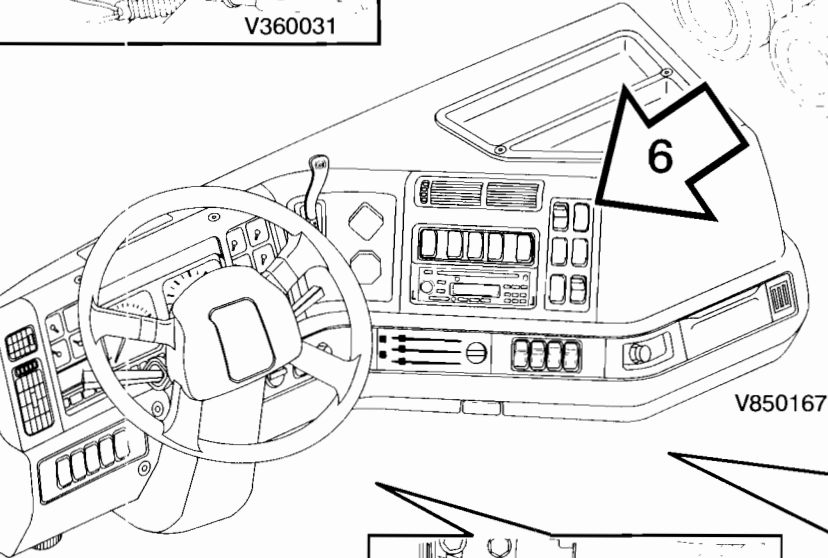
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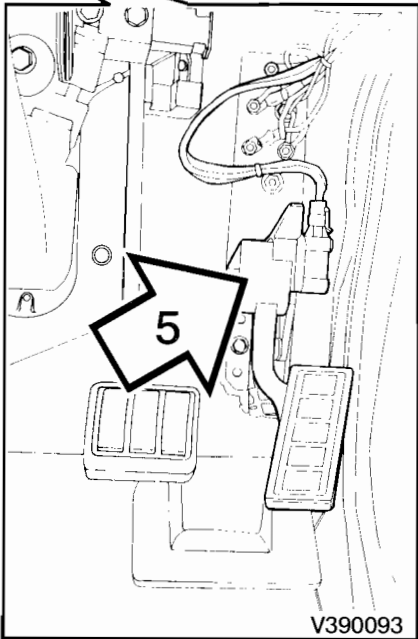
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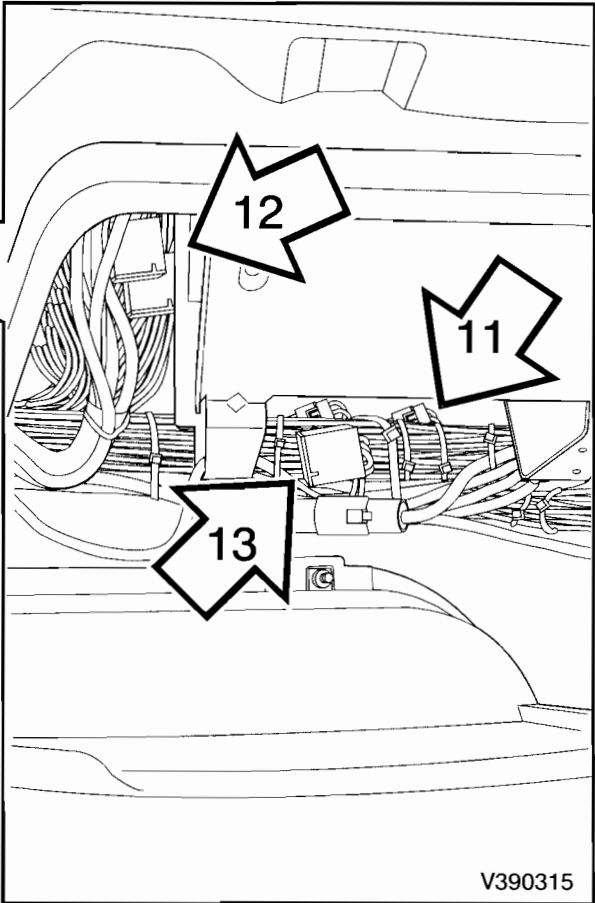
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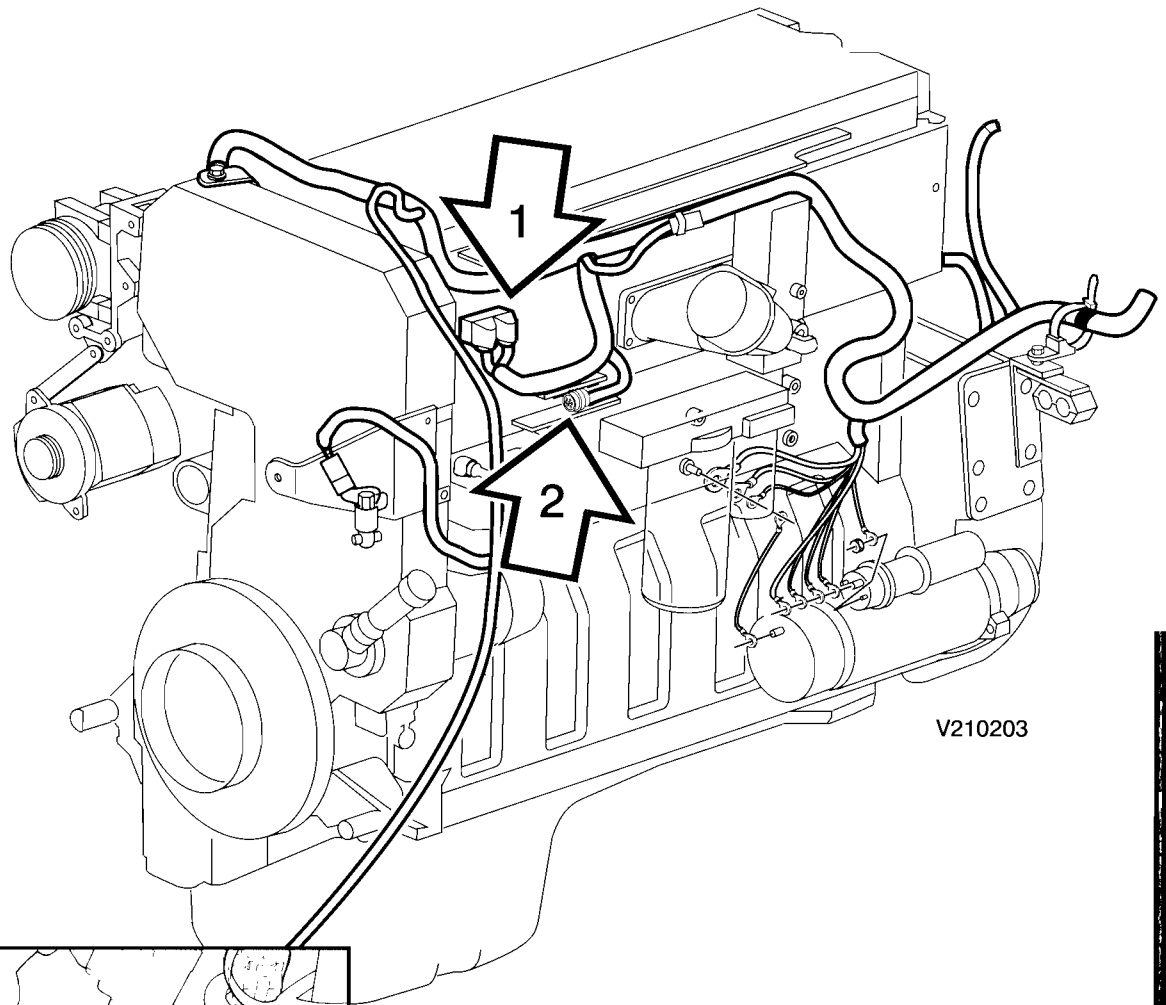
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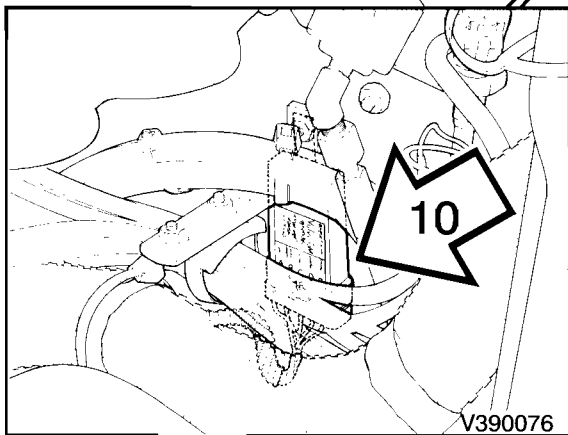
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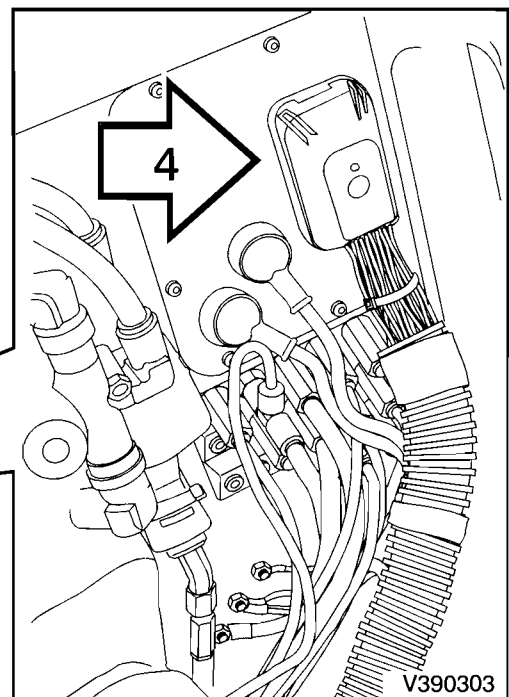
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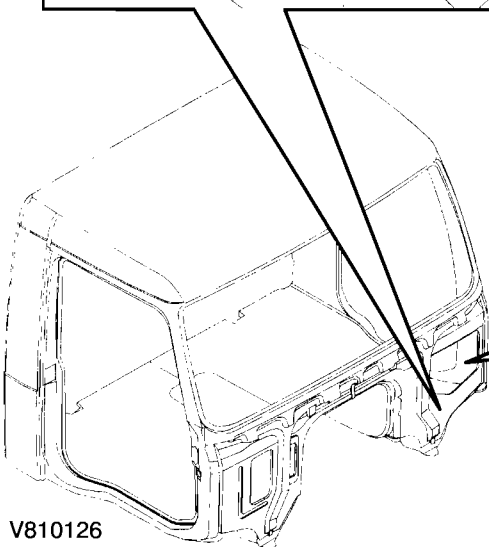
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V390076



V390303



V810126