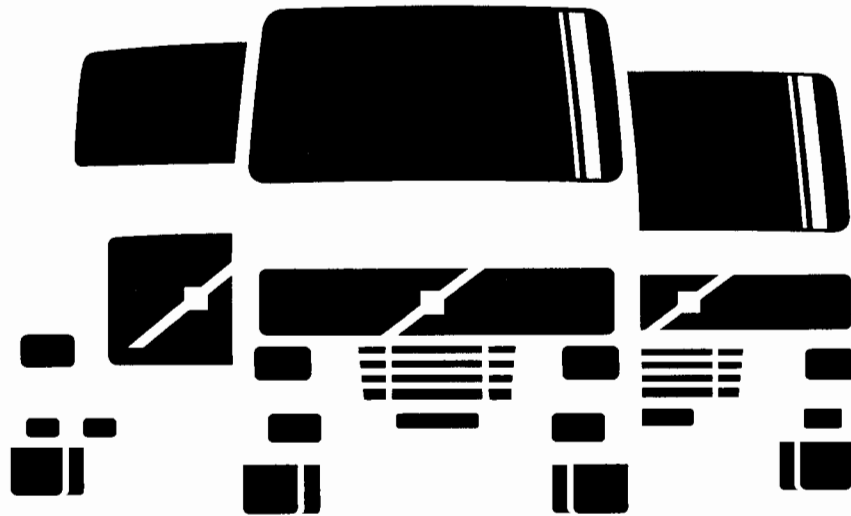


Service Manual Trucks

Group **37**
Electrical Schematic:
A/C Heat
VN
From Build Date 5.99

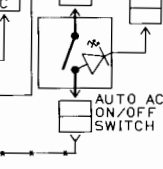
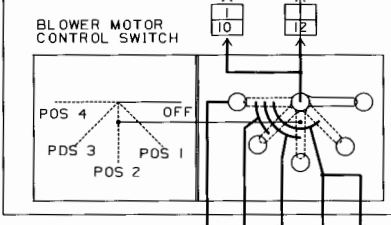
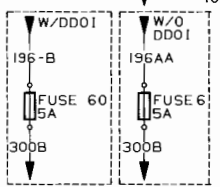


PV776-370-99070/3

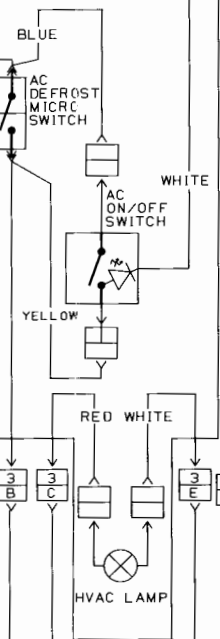
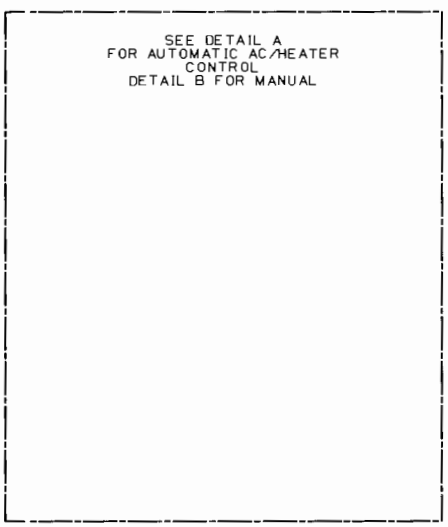
VOLVO

BATTERY 12 VOLT
IGNITION 12 VOLT
ACCESSORY 12 VOLT

MAXI
FUSE 5
40A

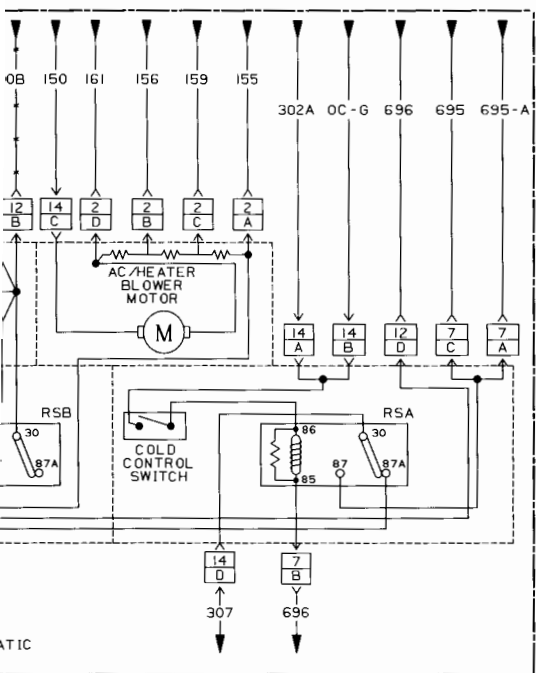


AC/HEATER
CONTROL
UNIT



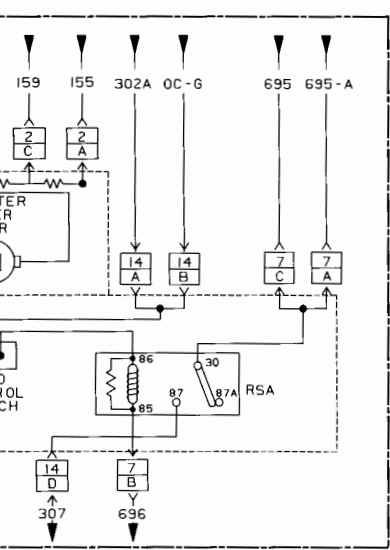
ONLY
IC ONLY
ESEL OPTIMIZED IDLE

SPLICE LOCATION CHART
LOCATION
100 MM FROM WIPER MOTOR BREAKOUT

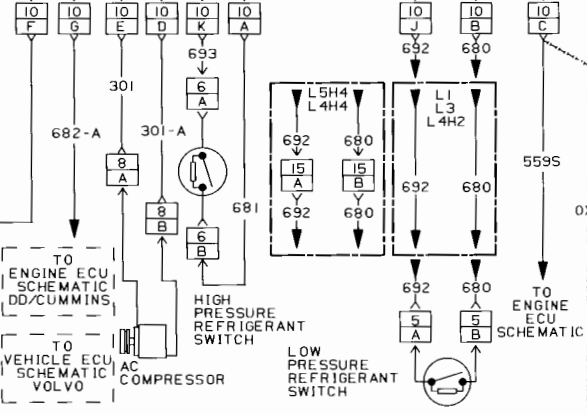


VOLVO &
CUMMINS

DD
ENGINE ONLY

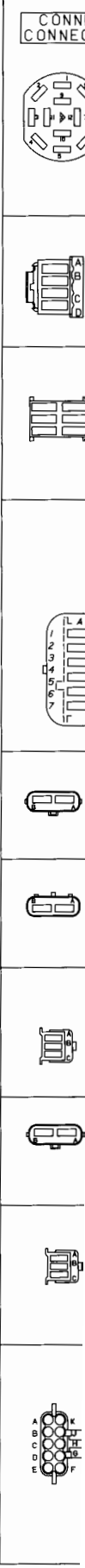


A/C DIAGNOSTIC MODULE



GROUND
RHS GROUND
STUD #18 INTERIOR SIDE

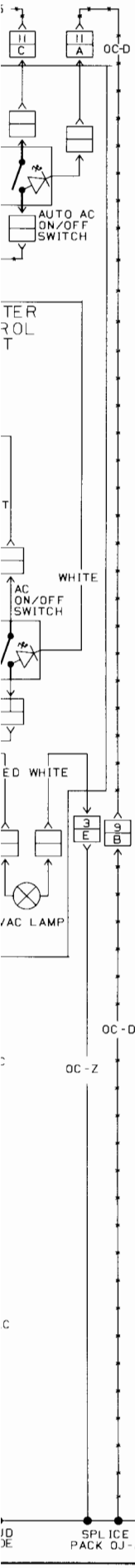
LHS GROUND STUD
#8 EXTERIOR SIDE
SPLICE
PACK OJ-A



at - VN

08644

EFFECTIVE DATE	DESCRIPTION



**CONNECTOR AND SPLICE INFORMATION
CONNECTORS VIEWED FROM CABLE ENTRY**

**CONNECTOR 1
HEATER BLOWER MOTOR CONTROL SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	155	FAN SPEED POS 1
2	159	FAN SPEED POS 2
3	156	FAN SPEED POS 3
4	161	FAN SPEED POS 4
8	302A	AC ON/OFF SWITCH
12	0B	BLOWER MOTOR SW. GND
10	0E	BLOWER MOTOR GND FEED

**CONNECTOR 2
AC/HEATER BLOWER MOTOR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	155	FAN SPEED POS 1
B	156	FAN SPEED POS 2
C	159	FAN SPEED POS 3
D	161	FAN SPEED POS 4

**CONNECTOR 3
AC MICRO SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	695-A	AC/HEAT CNTRL 12 VOLT SUPPLY
B	696	ATC TEMP. SENSOR RETURN
C	141A-H	CONTROL SWITCH ILLUM
D	OC-G	AC SW. ILLUM. GND
E	OC-Z	HVAC SW. ILLUM. GND

**CONNECTOR 4
ENGINE HARNESS PASS THROUGH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
L7	307	COMPRESSOR ON REQUEST
J1	300B	12 VOLT AC DIAGNOSTIC MODULE
J1	300	12 VOLT AC DIAGNOSTIC MODULE

**CONNECTOR 5
LOW PRESSURE REFRIGERANT SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	692	LOW PRESS. REF. SW. FEED
B	680	LOW PRESS. REF. SW. RETURN

**CONNECTOR 6
HIGH PRESSURE REFRIGERANT SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	693	HIGH PRESS. REF. SW. FEED
B	681	HIGH PRESS. REF. SW. RETURN

**CONNECTOR 7
AC/HEATER BLOWER MOTOR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	695-A	AC DEFROST 12 VOLT FEED
B	696	ATC TEMP. SENSOR RETURN
C	695	RSA 12 VOLT FEED

**CONNECTOR 8
AC COMPRESSOR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	301	AC COMPRESSOR FEED
B	301-A	AC COMPRESSOR RETURN

**CONNECTOR 9
MAIN CAB HARNESS TO AUTO CLIMATE UNIT**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	0E	BLOWER MOTOR GND FEED
B	OC-D	AUTO AC ILLUM. GND
C	695A	12 VOLT SUPPLY RSA

**CONNECTOR 10
AC DIAGNOSTIC MODULE**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	681	HIGH PRESS. REF. SW. RETURN
B	680	LOW PRESS. REF. SW. RETURN
C	559S	ECU GROUND
D	301-A	AC COMPRESSOR RETURN
E	301	AC COMPRESSOR FEED
F	300B	12 VOLT AC DIAGNOSTIC MODULE VOLTAGE
F	300-B	12 VOLT AC DIAGNOSTIC MODULE DEFROST
G	682-A	ENGINE FAN ON REQUEST
H	307	COMPRESSOR ON REQUEST
J	692	LOW PRESS. REF. SW. FEED
K	693	HIGH PRESS. REF. SW. FEED

**CONNECTOR 11
AUTO AC ON/OFF SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	OC-D	AUTO AC SW. GND
B	696	AUTO AC SW. FEED
C	695	AUTO AC SW. FEED

**CONNECTOR 12
AC/HEATER BLOWER MOTOR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	697	ATC TEMP. SENSOR RETURN
B	0B	AC/HEATER BLOWER MOTOR GND
C	698	ATC TEMP SWITCHED FEED
D	696	ATC TEMP SENSOR RETURN

**CONNECTOR 13
AUTOMATIC A/C SENSOR UNIT**

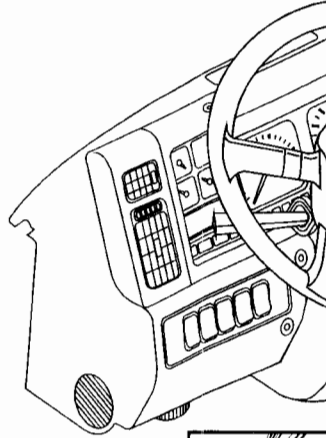
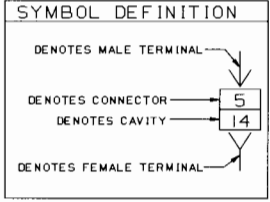
TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	697	ATC TEMP. SENSOR RETURN
B	698	ATC TEMP SWITCHED FEED

**CONNECTOR 14
AC/HEATER BLOWER MOTOR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	302A	AC SWITCH FEED
B	OC-G	AC SW. ILLUM. GND
C	150	BLOWER MOTOR 12 VOLT SUPPLY
D	307	COMPRESSOR ON REQUEST

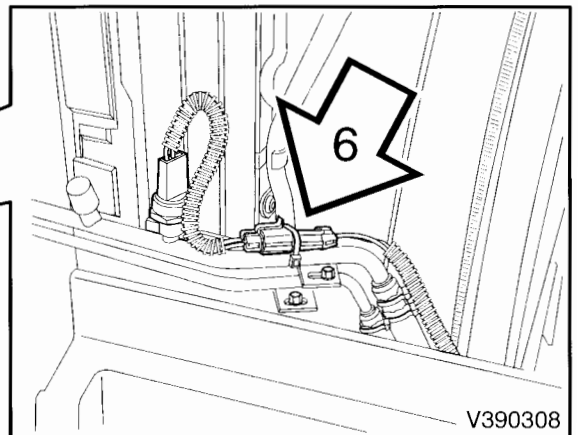
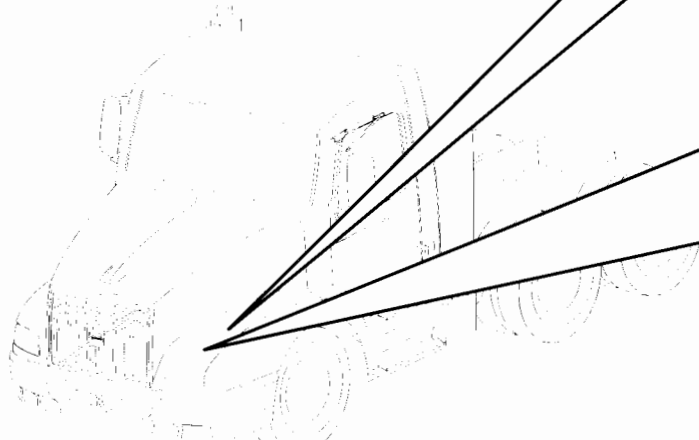
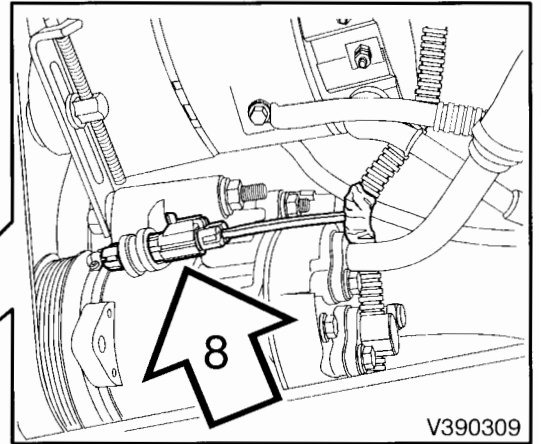
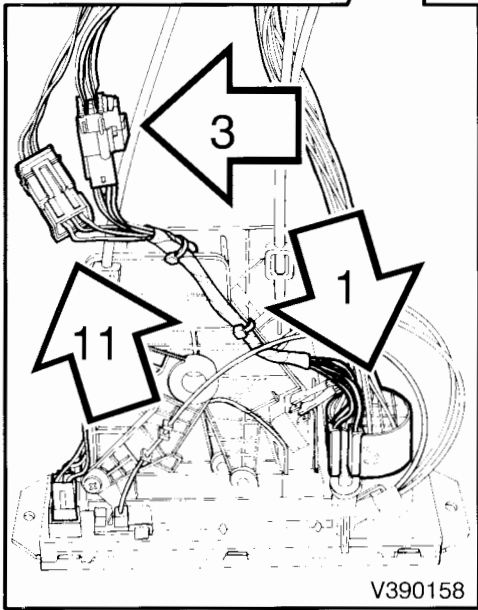
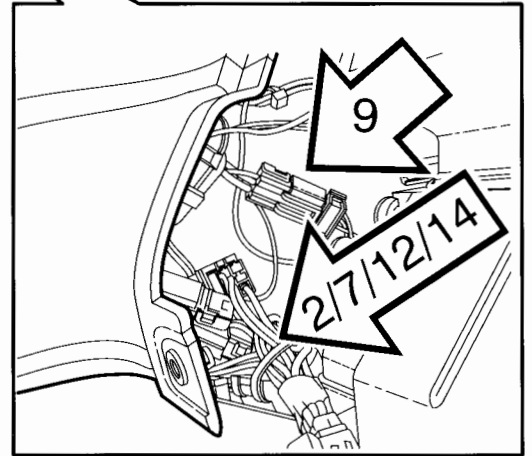
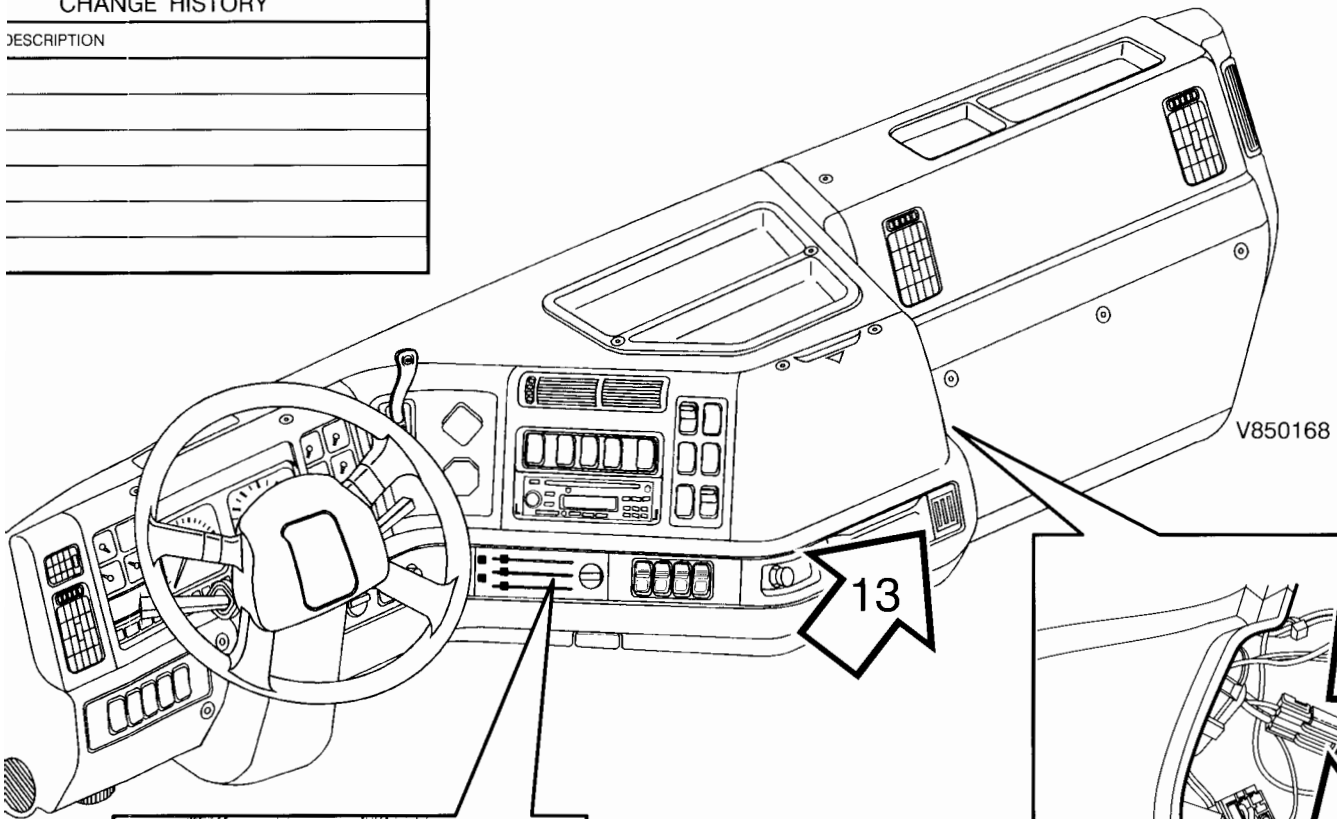
**CONNECTOR 15
JUMPER LOW PRESSURE REFRIG. SW.**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	692	LOW PRESS. REF. SW. FEED
B	680	LOW PRESS. REF. SW. RETURN

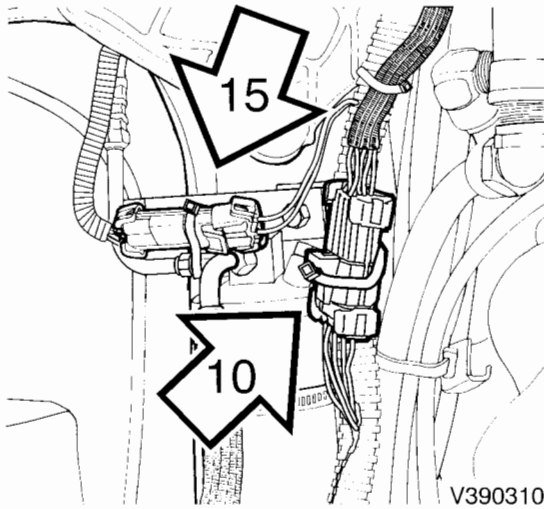


CHANGE HISTORY

DESCRIPTION

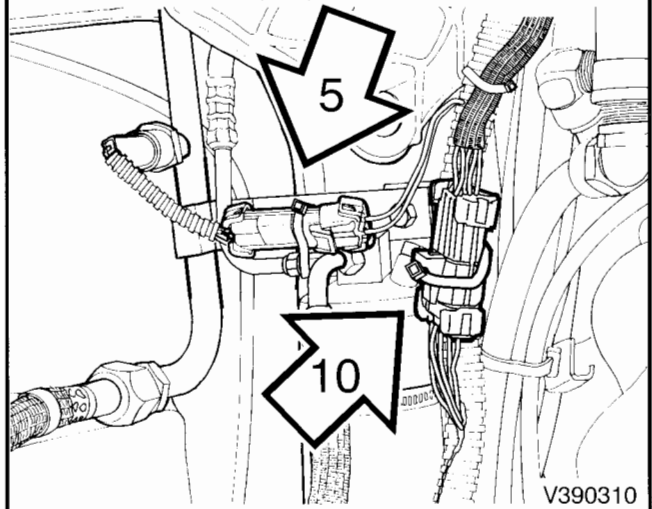


MODEL VN 660/770 ONLY

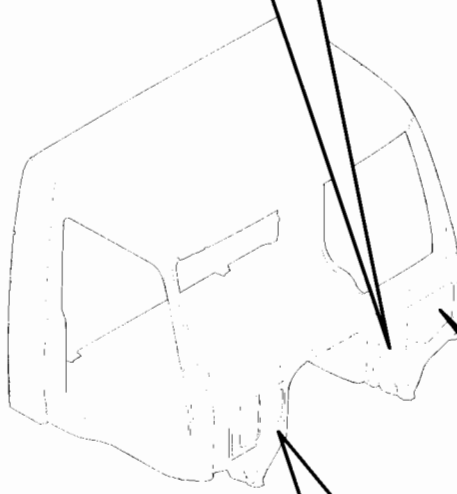


V390310

MODELS VN DAY CAB/420/610 ONLY

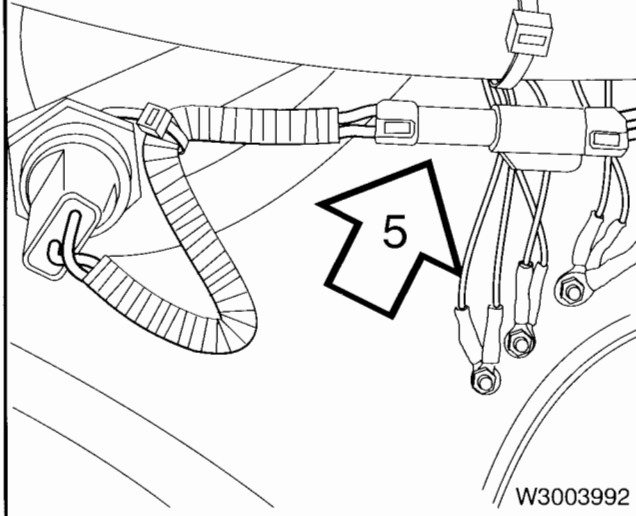


V390310

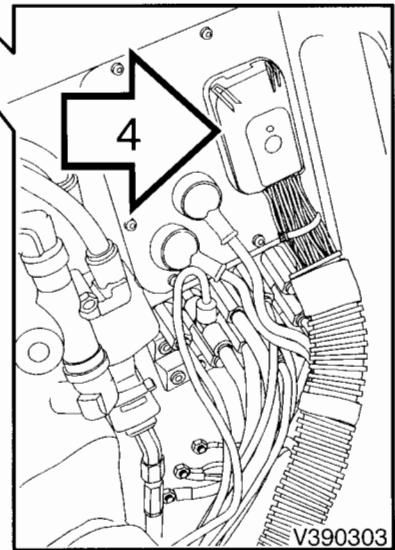


V810126

MODEL VN 660/770 ONLY



W3003992



V390303