

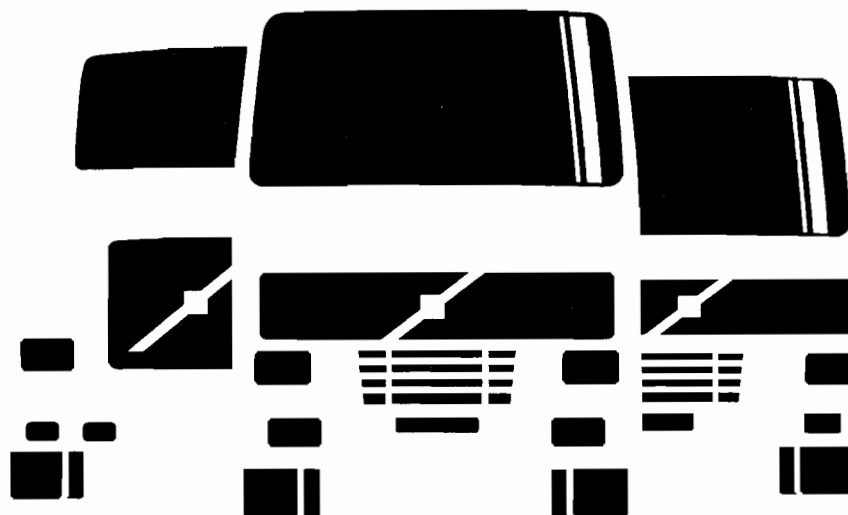
Service Manual Trucks

Group **37**

Electrical Schematic:
Starting and Charging

VN

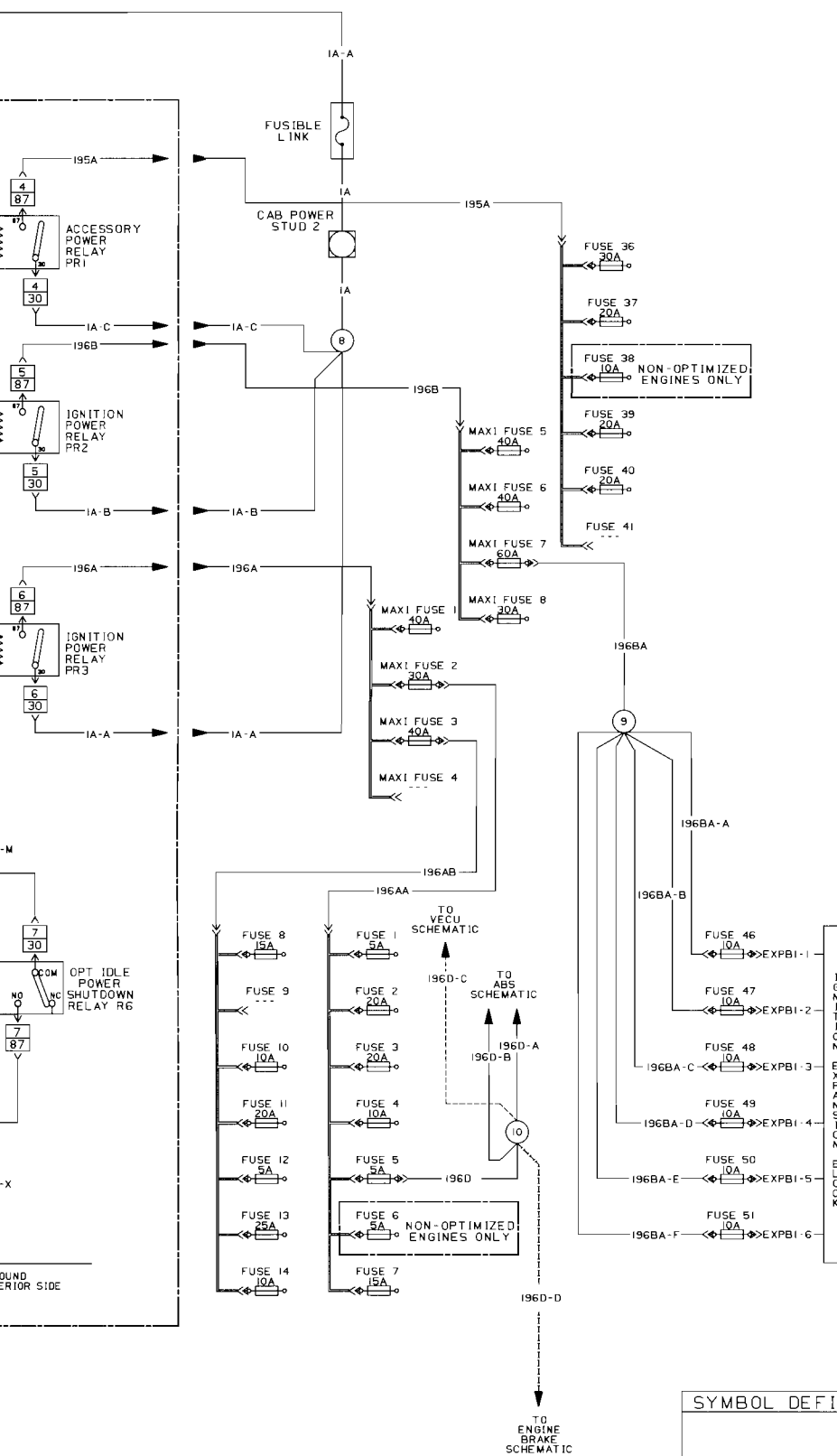
From Build Date 3.99



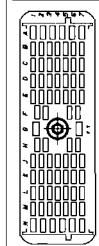
PV776-370-99241/1

VOLVO



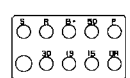


CONNECTOR AND SPLICE INFORMATION CONNECTORS VIEWED FROM CABLE ENTRY



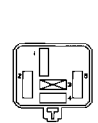
CONNECTOR 1 ENGINE HARNESS PASSTHROUGH

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
B1	14	BATTERY CHARGING
A5	284-B	12 VOLT TO START RELAY
A5	284	12 VOLT TO START RELAY



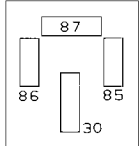
CONNECTOR 2 IGNITION SWITCH

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
DR	196DR	ECU IGNITION FEED
30	243A	12 VOLT SUPPLY
B+	243	12 VOLT SUPPLY
50	284	12 VOLT TO START RELAY
50	284/284A	12 VOLT TO START RELAY
R	195	ACCESSORY RELAY
15	196	IGNITION RELAY
19	245	ENGINE PREHEAT FEED
19	591	DATA DISPLAY BAT FEED



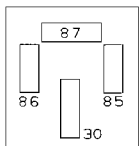
CONNECTOR 3 STARTER RELAY

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
30	285A	12 VOLT SUPPLY
85	284-B	12 VOLT TO START RELAY
85	284-A	12 VOLT TO START RELAY
86	990	GROUND COIL SUPPLY
87	285	12 VOLT SUPPLY



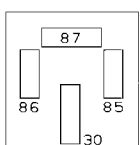
CONNECTOR 4 POWER RELAY 1

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
30	1A-C	12 VOLT SUPPLY
85	OR-R	GROUND COIL SUPPLY
86	195	12 VOLT COIL SUPPLY
86	195-A	12 VOLT COIL SUPPLY
87	195A	12 VOLT SUPPLY TO FUSES



CONNECTOR 5 POWER RELAY 2

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
30	1A-B	12 VOLT SUPPLY
85	OR-R/OR-M	GROUND COIL SUPPLY
86	196R	12 VOLT COIL SUPPLY
87	196B	12 VOLT SUPPLY TO FUSES

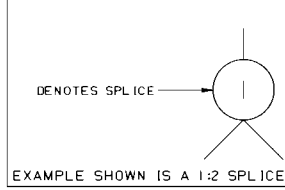


CONNECTOR 6 POWER RELAY 3

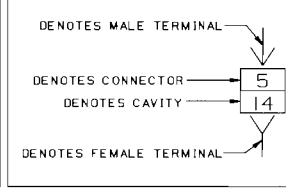
TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
30	1A-A	12 VOLT SUPPLY
85	OR-N/OR-M	GROUND COIL SUPPLY
86	196/196R	12 VOLT COIL SUPPLY
86	196-A/196R	12 VOLT COIL SUPPLY
87	196A	12 VOLT SUPPLY TO FUSES

SPLICE	HARNESS
1	CAB
2	ENGINE
3	CAB
4	CAB
5	CAB
6	CAB
7	CAB
8	CAB
9	CAB
10	CAB
11	ENGINE
12	CAB
13	CAB
14	CAB

SYMBOL DEFINITION



SYMBOL DEFINITION



CHANGE HISTORY

EFFECTIVE DATE	DESCRIPTION

CONNECTOR 7 OPTIMIZED IDLE POWER SHUTDOWN RELAY, R6



TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
30	OR-M	GROUND SUPPLY TO RELAY COILS
85	D196-D	12 VOLT COIL SUPPLY
86	583	GROUND COIL SUPPLY
87	OR-X	GROUND

CONNECTOR 8 OCP OPTION CONNECTOR



TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	OV	GROUND
B	990	GROUND COIL SUPPLY

CONNECTOR 9 OCP CONNECTOR



TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	OVA	GROUND
B	990	GROUND COIL SUPPLY

CONNECTOR 10 BATTERY LIFE GUARD OPTION CONNECTOR



TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
-	IP	12 VOLT SUPPLY

CONNECTOR 11 INLINE LATCHING DIODE



TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
B	823-B	CATHODE

CONNECTOR 12 INLINE LATCHING DIODE



TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	284-C	ANODE

CONNECTOR 13 NEUTRAL SAFETY RELAY

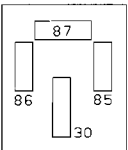


TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
30	284	12 VOLT FEED
85	823-A	START EN(+)
86	990-A	GROUND
87	284-A	12V SOLENOID FEED

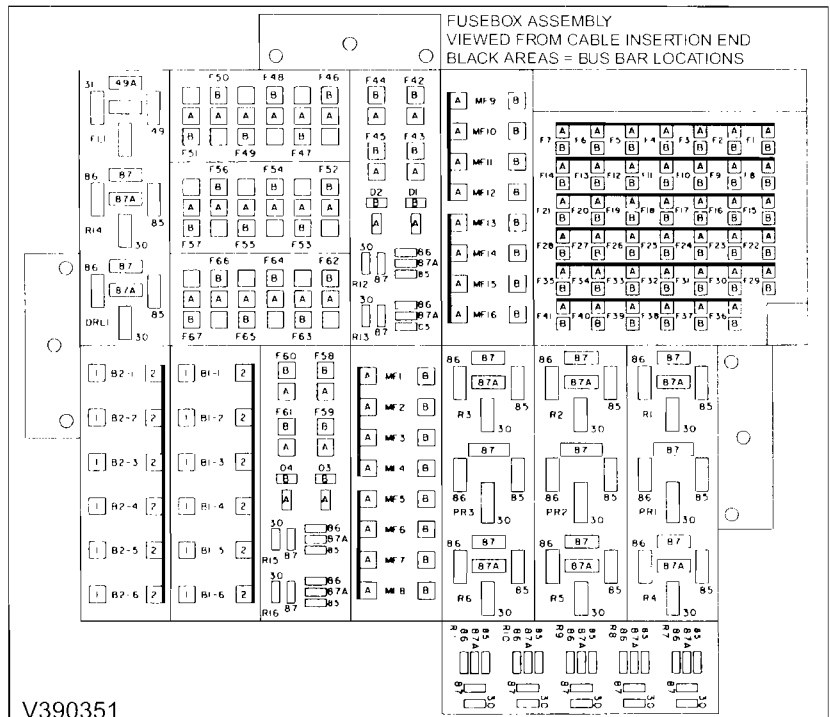
SPLICE LOCATION CHART

HARNESS	LOCATION
CAB	STEERING COLUMN
ENGINE	MAIN TRUNK
CAB	STEERING COLUMN
CAB	ELECTRICAL DISTRIBUTION CENTER
CAB	ELECTRICAL DISTRIBUTION CENTER
CAB	ELECTRICAL DISTRIBUTION CENTER
CAB	ELECTRICAL DISTRIBUTION CENTER
CAB	ELECTRICAL DISTRIBUTION CENTER
CAB	ELECTRICAL DISTRIBUTION CENTER
ENGINE	MAIN TRUNK
CAB	MAIN TRUNK
CAB	MAIN TRUNK
CAB	STEERING COLUMN

----- DENOTES VOLVO ENGINE ONLY
 ----- DENOTES VENDOR ENGINE ONLY
 * DENOTES OPT. IDLE ENGINE ONLY
 +++++ DENOTES VENDOR ENGINE W/O AUTOSHIFT
 +++++ DENOTES VENDOR ENGINE W/ AUTOSHIFT

Schematic # 3188713.02

FUSEBOX ASSEMBLY VIEWED FROM CABLE INSERTION END BLACK AREAS = BUS BAR LOCATIONS



V390351

