

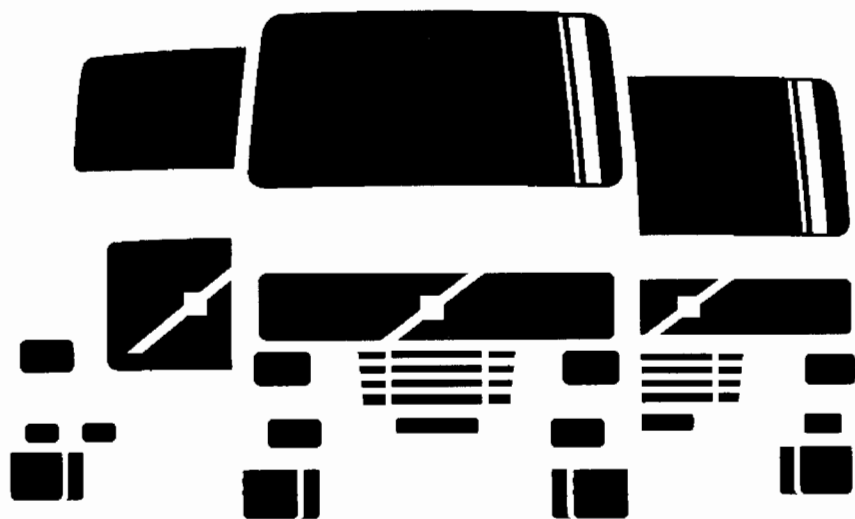
# Service Manual Trucks

Group **37**

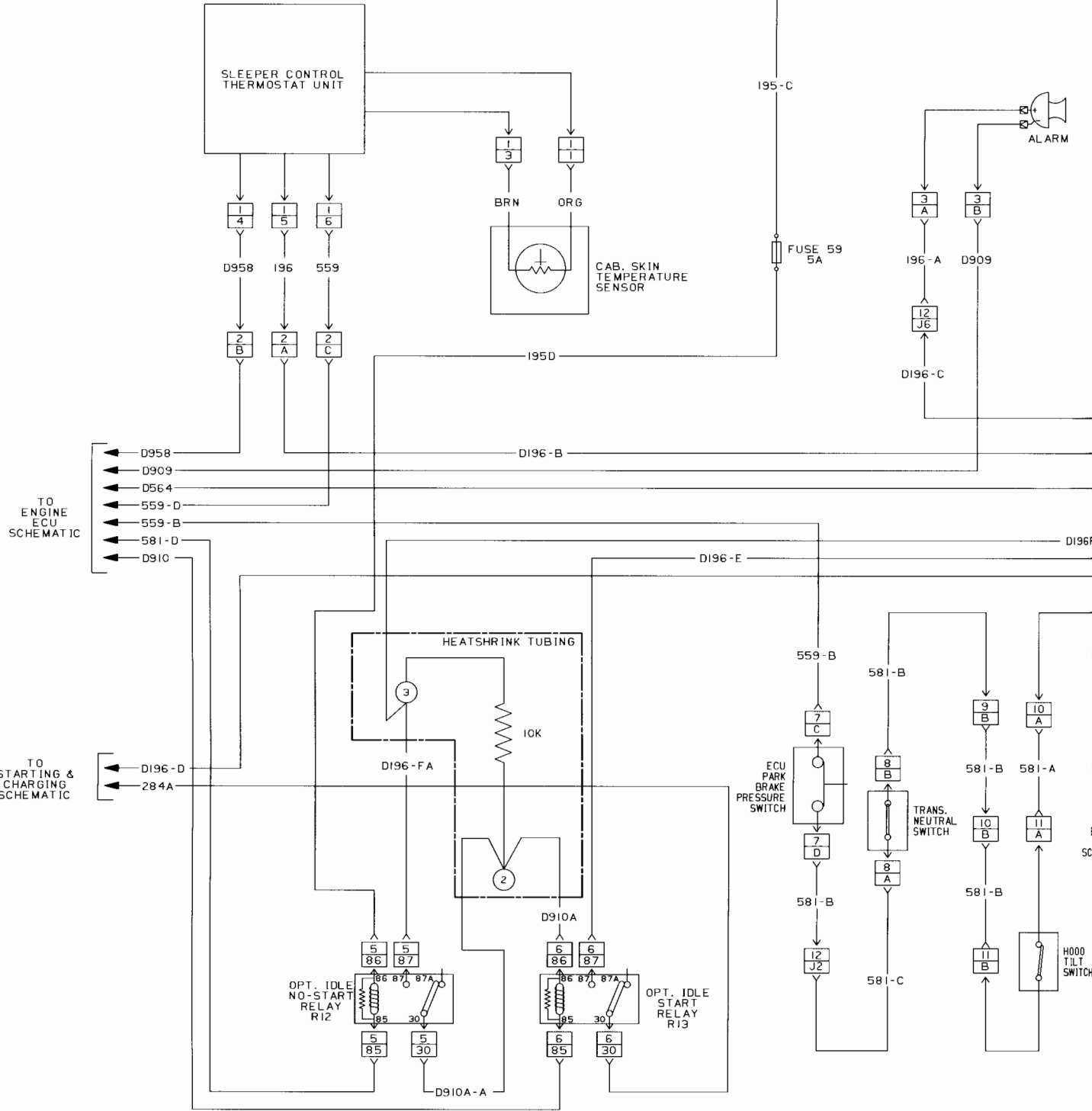
Electrical Schematic:  
Detroit Diesel Self-Start  
& Optimized Idle

VN

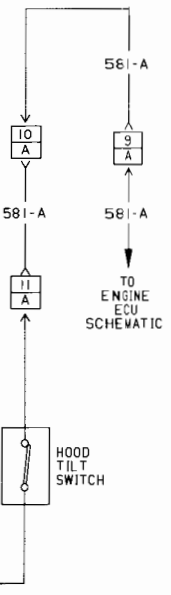
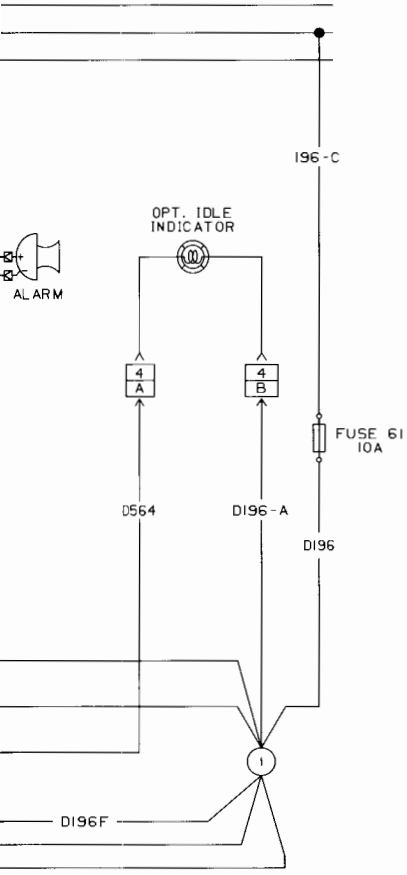
From Build Date 5.99



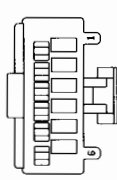
BATTERY 12 VOLT  
 IGNITION 12 VOLT  
 ACCESSORY 12 VOLT



# Detroit Diesel Self-Start & Optimized Idle - VN



CONNECTOR AND SPLICE INFORMATION  
CONNECTORS VIEWED FROM CABLE ENTRY



**CONNECTOR 1  
THERMOSTAT UNIT**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	ORG	SKIN TEMP. SENSOR
3	BRN	SKIN TEMP. SENSOR
4	D958	OUTPUT SIGNAL TO ECU
5	196	12 VOLT SUPPLY
6	559	GROUND



**CONNECTOR 2  
THERMOSTAT HARNESS TO MAIN CAB. HARNESS**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	D196-B	12 VOLT SUPPLY
B	D958	OUTPUT SIGNAL TO ECU
C	559-D	GROUND



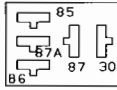
**CONNECTOR 3  
ALARM**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	196-A	12 VOLT SUPPLY
B	0909	ECU PWM OUTPUT #3



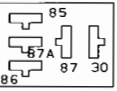
**CONNECTOR 4  
OPT. IDLE INDICATOR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	0564	ECU DIGITAL OUTPUT
B	D196-A	12 VOLT SUPPLY



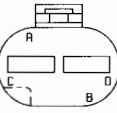
**CONNECTOR 5  
OPT. IDLE NO-START RELAY R12**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
86	195D	12 VOLT SUPPLY
85	581-D	SAFETY LOOP GND
87	D196-FA	12 VOLT SUPPLY
30	D910A-A	START LOOP SUPPLY



**CONNECTOR 6  
OPT. IDLE START RELAY R13**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
86	D910A	START SUPPLY
85	D910	ECU PWM. OUTPUT #2
87	D196-E	12 VOLT SUPPLY
30	Z84A	OPT. IDLE START



**CONNECTOR 7  
PARK BRAKE PRESSURE SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
C	559-B	GROUND
D	581-B	SAFETY LOOP INPUT



**CONNECTOR 8  
NEUTRAL SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	581-C	SAFETY LOOP INPUT
B	581-B	SAFETY LOOP INPUT



**CONNECTOR 9  
CHASSIS HARNESS ADDL.**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	581-A	SAFETY LOOP INPUT
B	581-B	SAFETY LOOP INPUT



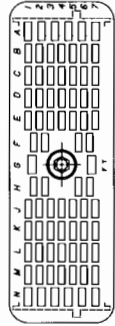
**CONNECTOR 10  
HOOD SWITCH HARNESS**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	581-A	SAFETY LOOP INPUT
B	581-B	SAFETY LOOP INPUT



**CONNECTOR 11  
HOOD SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	581-A	ECU DIGITAL OUTPUT
B	581-B	SAFETY LOOP INPUT



**CONNECTOR 12  
ENGINE HARNESS PASS THROUGH**

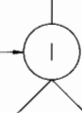
TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
J2	581-B	SAFETY LOOP
J6	D196-C	12 VOLT SUPPLY

**SPLICE LOCATION CHART**

SPLICE	HARNESS	LOCATION
1	CAB	MAIN TRUNK PSNGR SIDE FUSE BLOCK
2	CAB	200MM FROM TECH CENTER
3	CAB	225MM FROM TECH CENTER

**SYMBOL DEFINITION**

DENOTES SPLICE



EXAMPLE SHOWN IS A 1:2 SPLICE

**SYMBOL DEFINITION**

DENOTES MALE TERMINAL

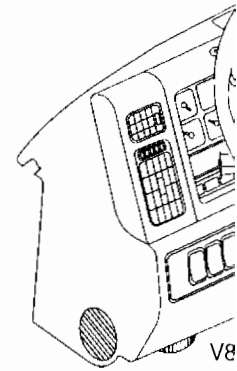
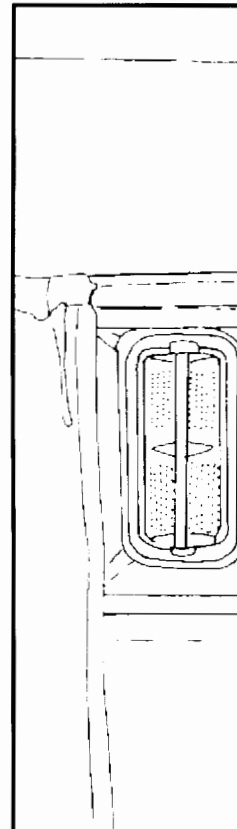
DENOTES CONNECTOR

DENOTES CAVITY

DENOTES FEMALE TERMINAL



EFFECTIVE DATE	DESCRIPTION
11.99	ADDED 10K RESIS



CHANGE HISTORY

DESCRIPTION
ADDED 10K RESISTOR

