

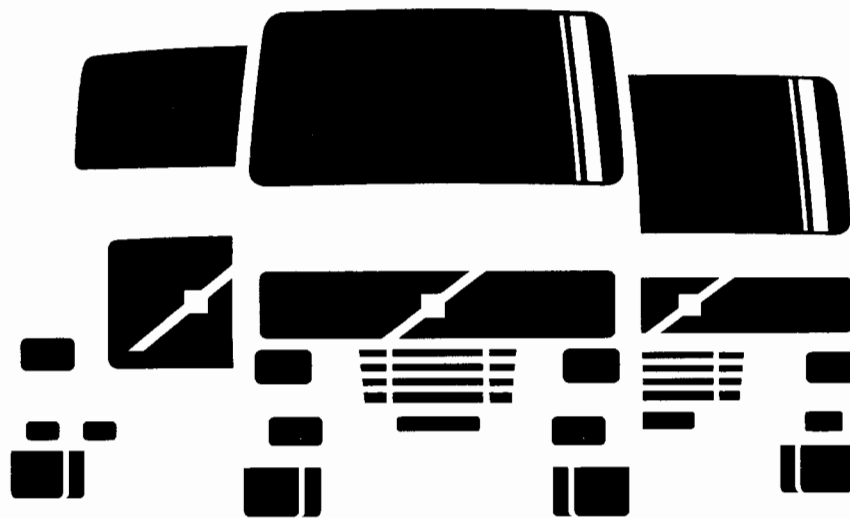
Service Manual Trucks

Group **37**

Electrical Schematic:
WABCO Anti-lock Brake System (ABS)

VN

From Build Date 5.99

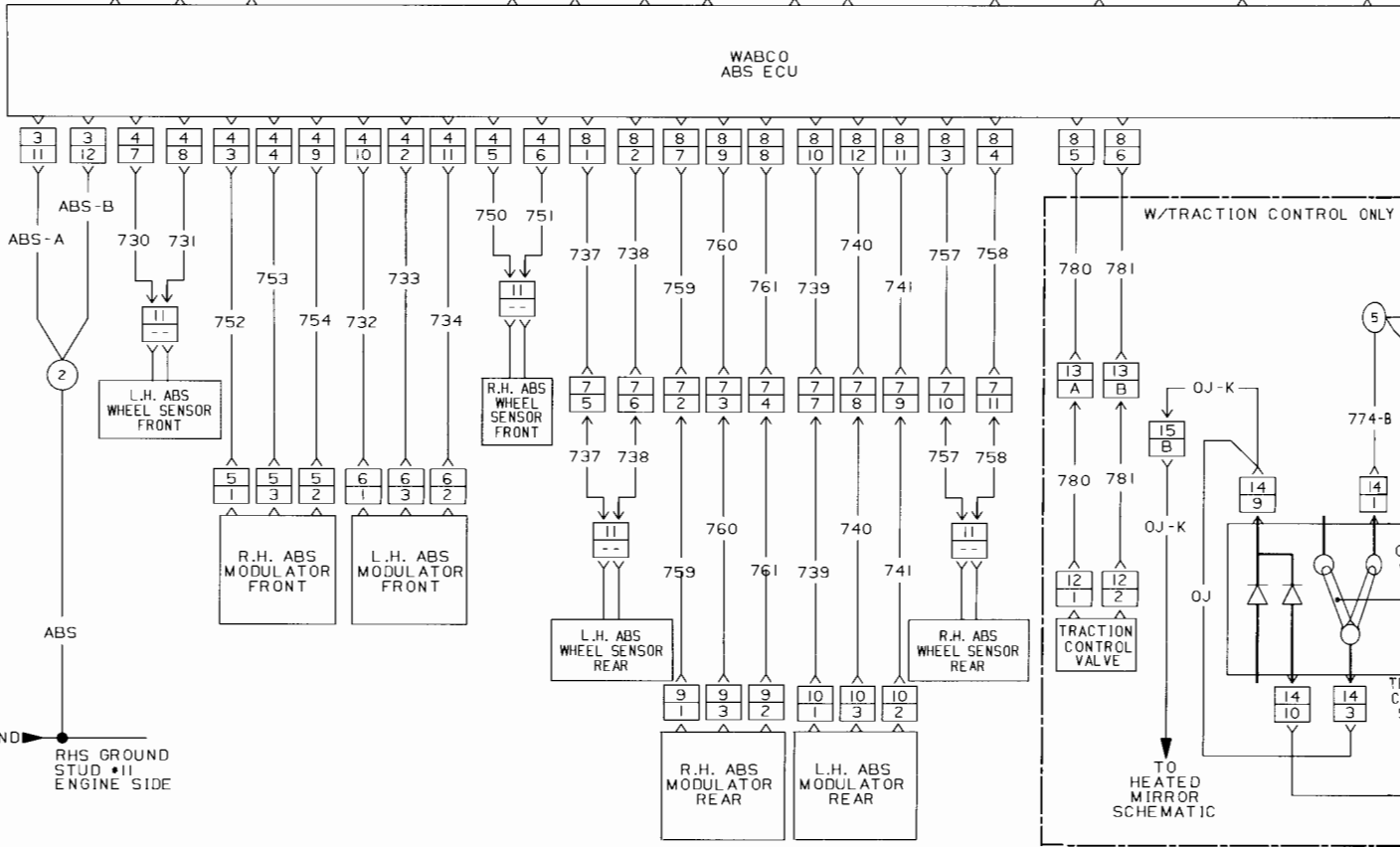
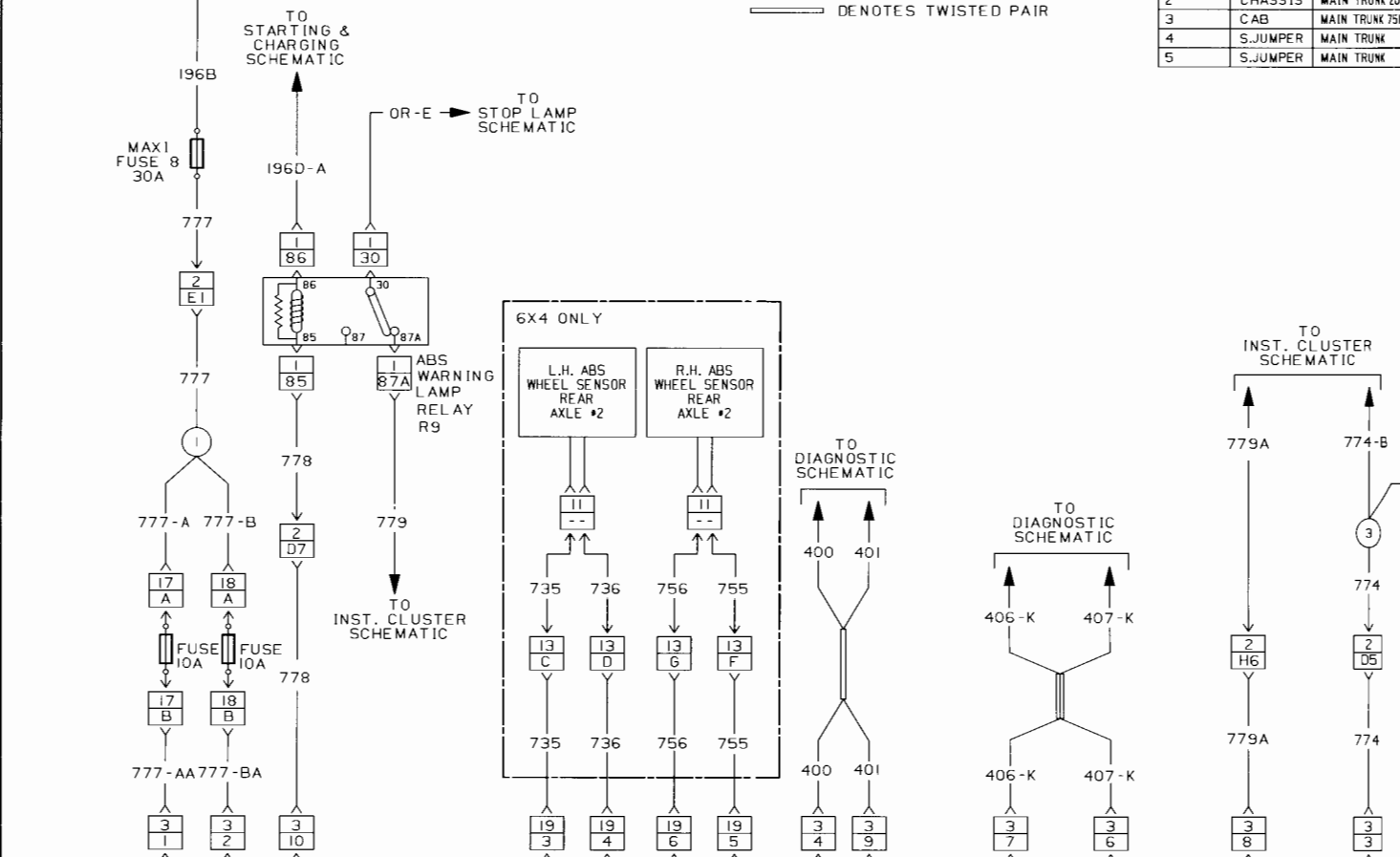


BATTERY 12 VOLT
IGNITION 12 VOLT
ACCESSORY 12 VOLT

CONNECTORS 5,6,9,10,12 SHOWN FROM MATING SIDE

==== DENOTES J1939 JACKETED CABLE
===== DENOTES TWISTED PAIR

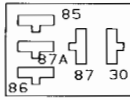
SPLICE LOCATION		
SPLICE	HARNESS	LOCATION
1	CHASSIS	MAIN TRUNK 30
2	CHASSIS	MAIN TRUNK 20
3	CAB	MAIN TRUNK 75
4	S.JUMPER	MAIN TRUNK
5	S.JUMPER	MAIN TRUNK



WABCO Anti-lock Brake System (ABS) - VN

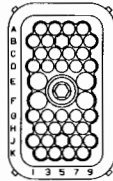
SPLICE LOCATION CHART	
WIRE	LOCATION
85	MAIN TRUNK 300MM FROM ABS ECU BREAKOUT
86	MAIN TRUNK 200MM FROM ABS ECU BREAKOUT
87	MAIN TRUNK 75MM FROM OPT. CONN. BREAKOUT
88	MAIN TRUNK
89	MAIN TRUNK

CONNECTOR AND SPLICE INFORMATION CONNECTORS VIEWED FROM CABLE ENTRY



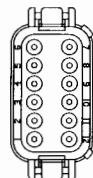
**CONNECTOR 1
ABS WARNING LAMP RELAY R9**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
86	196D-A	12 VOLT SUPPLY
87A	779	WARNING LAMP
85	778	WARNING LAMP ENABLE
30	OR-E	GROUND



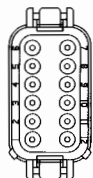
**CONNECTOR 2
CHASSIS HARNESS PASS THROUGH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
D5	774	TRACTION CONTROL LAMP
D7	778	WARNING LAMP ENABLE
E1	777	12 VOLT SUPPLY
H6	779A	TRAILER ABS WARNING



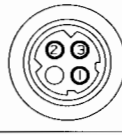
**CONNECTOR 3
WABCO ABS ECU-CAB**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	777-AA	12 VOLT SUPPLY
2	777-BA	12 VOLT SUPPLY
3	774	TRACTION CONTROL LAMP
4	400	POS. DATA LINK SAE J1708
6	407-K	DATA LINK LOW SAE J1939
7	406-K	DATA LINK HIGH SAE J1939
8	779A	TRAILER ABS WARNING
9	401	NEG. DATA LINK SAE J1708
10	778	WARNING LAMP ENABLE
11	ABS-A	ECU GROUND
12	ABS-B	ECU GROUND



**CONNECTOR 4
WABCO ABS ECU-FRONT**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
2	733	LF MODULATOR HOLD
3	752	RF MODULATOR EXHAUST
4	753	RF MODULATOR HOLD
5	750	RF SENSOR SIGNAL
6	751	RF SENSOR RETURN
7	730	LF SENSOR SIGNAL
8	731	LF SENSOR RETURN
9	754	RF MODULATOR COMM
10	732	LF MODULATOR EXHAUST
11	734	LF MODULATOR COMM



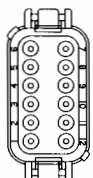
**CONNECTOR 5
R.H. ABS MODULATOR-FRONT**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	752	RF MODULATOR EXHAUST
2	754	RF MODULATOR COMMON
3	753	RF MODULATOR HOLD



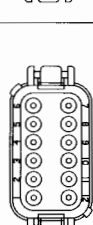
**CONNECTOR 6
L.H. ABS MODULATOR-FRONT**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	732	LF MODULATOR EXHAUST
2	734	LF MODULATOR COMMON
3	733	LF MODULATOR HOLD



**CONNECTOR 7
CHASSIS EXTENSION HARNESS**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
2	759	RR MODULATOR EXHAUST
3	760	RR MODULATOR HOLD
4	761	RR MODULATOR COMM
5	737	LR SENSOR SIGNAL
6	738	LR SENSOR RETURN
7	739	LR MODULATOR EXHAUST
8	740	LR MODULATOR HOLD
9	741	LR MODULATOR COMM
10	757	RR SENSOR SIGNAL
11	758	RR SENSOR RETURN



**CONNECTOR 8
WABCO ABS ECU-REAR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	737	LR SENSOR SIGNAL
2	738	LR SENSOR RETURN
3	757	RR SENSOR SIGNAL
4	758	RR SENSOR RETURN
5	780	SOLENOID SOURCE
6	781	SOLENOID GROUND
7	759	RR MODULATOR EXHAUST
8	761	RR MODULATOR COMM
9	760	RR MODULATOR HOLD
10	739	LR MODULATOR EXHAUST
11	741	LR MODULATOR COMM
12	740	LR MODULATOR HOLD



**CONNECTOR 9
R.H. ABS MODULATOR-REAR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	759	RR MODULATOR EXHAUST
2	761	RR MODULATOR COMMON
3	760	RR MODULATOR HOLD



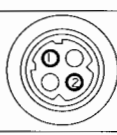
**CONNECTOR 10
L.H. ABS MODULATOR-REAR**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	739	LR MODULATOR EXHAUST
2	741	LR MODULATOR COMMON
3	740	LR MODULATOR HOLD



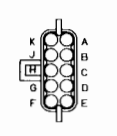
**CONNECTOR 11
WHEEL SENSOR JUMPER 6-PLACES**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
--	---	POLARITY NOT REQ'D



**CONNECTOR 12
TRACTION CONTROL VALVE**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	780	SOLENOID SOURCE
2	781	SOLENOID GROUND



**CONNECTOR 13
CHASSIS EXTENSION HARNESS**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	780	SOLENOID SOURCE
B	781	SOLENOID GROUND
C	735	LR2 SENSOR SIGNAL
D	736	LR2 SENSOR RETURN
F	755	RR2 SENSOR SIGNAL
G	756	RR2 SENSOR RETURN



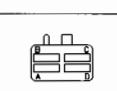
**CONNECTOR 14
TRACTION CONTROL SWITCH**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
1	774-B	TRACTION CONTROL LAMP
3	OJ	GROUND
9	OJ/OJ-K	GROUND
10	141-X	ILLUMINATION



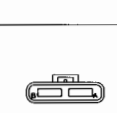
**CONNECTOR 15
TRACTION CONTROL**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	141R/141-BC	ILLUMINATION
B	OJ-K	GROUND



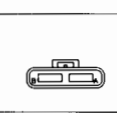
**CONNECTOR 16
TRACTION CONTROL**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	774-A	TRACTION CONTROL LAMP
B	196	TRACTION +12V SIGNAL



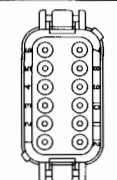
**CONNECTOR 17
INLINE FUSE**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	777-A	12 VOLT SUPPLY
B	777-BA	12 VOLT SUPPLY



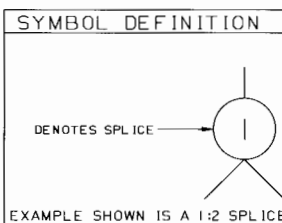
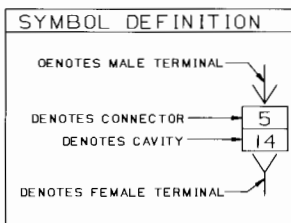
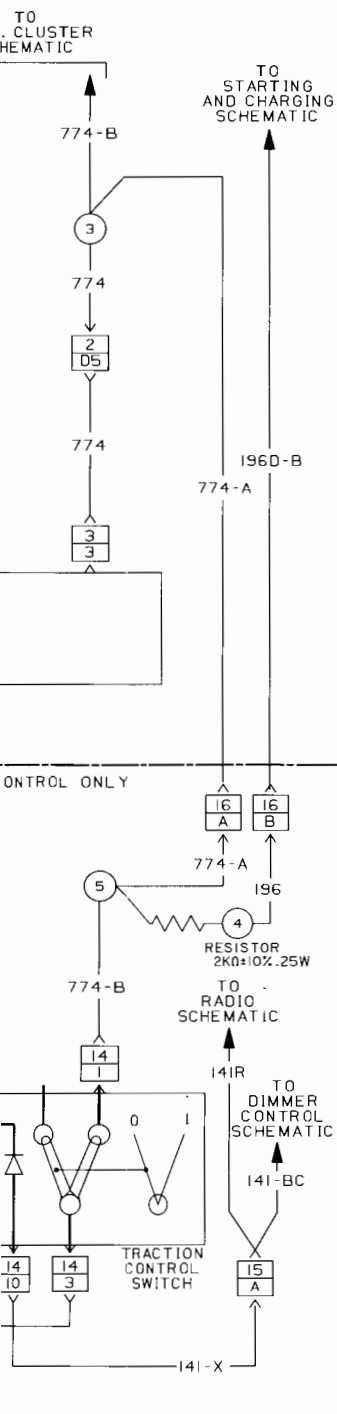
**CONNECTOR 18
INLINE FUSE**

TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
A	777-B	12 VOLT SUPPLY
B	777-BA	12 VOLT SUPPLY

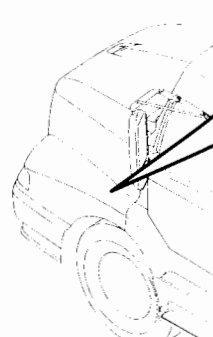


**CONNECTOR 19
WABCO ABS ECU-REAR AXLE 2**

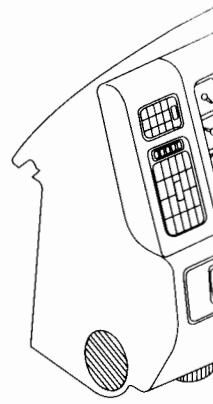
TABLE OF CONTENTS		
CAVITY	CIRCUIT	FUNCTION
3	735	LR2 SENSOR SIGNAL
4	736	LR2 SENSOR RETURN
5	755	RR2 SENSOR SIGNAL
6	756	RR2 SENSOR RETURN



CHAN	
EFFECTIVE DATE	DESCRIPTION



V990150



V850167

CHANGE HISTORY

DESCRIPTION

