645 Russell Street Batesburg, SC 29006

Service Manual 6123

ADL-256

I/O Test Panel

			•
			4
	•		
			A
			**
•			
		,	
			•
			•





CIRCUIT NOMENCLATURE AND GRAPHICAL SYMBOLS

1. CIRCUIT NOMENCLATURE

The purpose of the following is to explain the scheme of abbreviated designations used for electrically-operated signal units and wires.

Letters suggestive of the words they represent have been assigned as far as practicable but there are some letters that stand for names that cannot be associated, such as "G" for signal and "W" for switch. Some of the letters represent several different meanings or words, such as "N" Normal, "N" Negative, "N" North. Depending upon the use and location with respect to numerals and other letters, but if the scheme is consistently used there should be no mistake in the meaning.

2. NOMENCLATURE OF ELECTRICALLY-OPERATED UNITS

The term "Electrically-Operated Unit" is used to signify a signaling device in which an electric light or magnetic coil is usually essential to its operation, as, for instance, colorlight signal, a relay, electric lock, etc. in order to provide a concise, suggestive graphic code for marking these units on plans, the following system has been evolved, which makes use of a designation made up of two parts; namely,

First--numerical prefix: the number of the principle lever, signal, track circuit, or other device entering into the control of or controlled by the unit.

Second--alphabetic term: consisting of one or more letters. The last letter of this term designates the general kind of unit, while the first letter or letters, when used, describe specifically the operated unit.

The complete designation of a unit is written as follows:

(Numerical Prefix) (First Letter) (Last Letter) 2 H R

Written 2HR

In this example, 2 is the number of a signal. 2R means relay having to do with signal 2, and 2HR means home relay for signal 2. In other words, the letter R means relay in general. The letter H indicates that the function of this relay is to control the proceed or caution indication of a signal. The number 2 definitely indicates the signal which this relay controls.





3. TRACK CIRCUIT NUMBERING

A track circuit is designated by the letter "T" preceded by a number. If within interlocking limits, it will take a number of a movable point frog, switch, or derail lying within the track circuit, the preference being in the order named.

When there are no interlocked switches in a track circuit, it is numbered from a signal governing over the track circuit. Progressive alphabetical prefixes are used in the case of a plurality of track sections that govern one signal.

4. WIRE NOMENCLATURE

A wire carrying positive energy to one or more operated units is in general designated by nomenclaure similar to that applied to the operated unit controlled by it, followed by a number indicating the number of circuit controlling contacts in the circuit between the wire and unit.

A wire carrying negative energy from one or more operated units is designated in the same manner except that the designation is preceded by the letter "N".





TABLE OF MEANING OF LETTERS DESCRIPTIVE AND DESIGNATIVE TERMS

- A Approach--Alternator--Ampere
- B Positive Energy--Block--Button
- C Common--Changer--Call--Coding--Clock--Controller--Correspondence
- D Proceed indication of a signal--Right position of lever
- E Electric Light--Exportação--Left Position of lever--Edison-Element
- G Green--Signal (operating mechanism) -- Graph
- H Approach Indication of a Signal -- Home
- K Indicator (Visual)
- L Locking--Lever--Line
- M Lockout--Magnetic Marker--Manual
- N Normal--North--Negative
- O Off--Overload--On
- P Power--Repeating--Pole--Polar
- R Red--Reverse--Relay
- S South--Stick--Storage--Starting
- T Track--Time--Transformer--Tower--Transmitter--Train--Tuned
- V Volt
- W Switch (Operating Mechanism)
- X Interlocking--A.C.--Bell
- Y Yellow
- Z Use for any special term (to be noted on plan)





RELAY NOMENCLATURE INDEX

- ANN Annunciator--provides control for bell and light for highway crossing gateman.
- A Approach--detects the approach of a train.
- AE Approach Light--provides signal lighting when a train is approaching.
- AS Approach Stick--provides the time locking in the switch locking circuit.
- ASPS Approach Stick--repeater stick of AS and direct repeater. Repeater Stick of RP, used to prevent as cascading.
- ASPSTP Approach Stick Repeater Stick--repeater of ASPS and T to Track Repeater. Provides additional contact.
- ASPO Approach Stick--prevents AS from picking up without timing Power Off when A-C power comes on after power interruption.
- ASPOP Repeater of ASPO.
- BK Block Indication--indicates the presence of a train in the block.
- D Distant--provides green signal control
- DS Directional Stick--operates for a train movement in a particular direction. (_letter denotes direction such as "E" for East.)
- EO Light Flasher--provides flashing light control.
- ES East Stick--provides detection of an eastbound route.
- EXP Repeater of ES.
- EXS East crossing stick--provides release of crossing equipment behind Eastbound train.





Relay Nomenclature Index cont'd.

- G Signal--signal control.
- GP Repeater of "G" or signal green repeater.
- GZ Signal Control--controlled by a control machine signal lever.
- GZP Repeater of GZ
- GZS Signal Control Stick--controlled by mechanical lever and control machine lever. Stick circuit maintains relay energized regardless of position of mechanical lever.
- GZBP Back contact repeater of GZ for additional contacts.
- H Home provides yellow signal control.
- HG Home Signal--provides yellow control for colorlight signal
- HGP Repeater of HG.
- HGBPS- Home Signal Back Repeater Stick--provides control machine signal clear indication light.
- L Lock--provides route locking for a switch.
- LBP Back contact repeater of "L".
- LS Lock Stick--prevents switch operation when route is locked.
- LSBP Back contact repeater of LS.
- LK Lock Indication--provides control machine switch locked indication light and prevents preconditioning of switch lever.
- LO Light Out--detects burned out signal lamp.
- MC Maintainer Call--control for maintainer call horn.
- MCP Repeater of MC.
- MCPP Repeater of MCP.





Relay Nomenclature Index cont'd.

NWC - Normal Switch Correspondence--indicates that switch point and WZ are in normal position.

NWCP - Repater of NWC.

NWCPP- Repeater of NWCP.

NWCPPP- Repeater of NWCPP.

NWZ - Normal Repeater of WZ.

NWZP - Second Normal Repeater of WZ.

NLP - Normal Lever Repeater--repeater of normal position of control machine lever.

NS - North Stick--provides detection of a northbound route.

NWLP - Normal Switch Lock Repeater--repeats the normal position of a switch circuit controller and electric switch lock.

PBS - Pushbutton Stick--energized by a pushbutton and remains energized after pushbutton returns normal.

PO - Power Off--transfers power from A-C to D-C when A-C power is off. Control power off indication for CTC.

POP - Repeater of PO.

RWC - Reverse Switch Correspondence--indicates that switch points and WZ are in the reverse position.

RWCP - Repeater of RWC.

RWCPP- Repeater of RWCP.

RWZ - Reverse repeater of WZ.

RR - Route Request Relay

RLP - Reverse Lever Repeater--repeater of reverse position of control machine lever.

RPR - Route Repeater Relay.





Relay Nomenclature Index cont'd.

- S Stick--provides detection of a southbound route.

 (__letter denotes direction such as "E" for East.)
- T Track--detects presence of a train on a section of track.
- TP Repeater of T.
- TPP Repeater of TP.
- TPPP Repeater of TPP.
- TE Time Element--provides time delay.
- TPS Track Repeater Stick--energized by "T" and a control machine lever contact, will be deenergized by the "T" only.
- TEP Repeater of TE.
- TPSP Repeater of TPS.
- WS West Stick--provides detection of a westbound route.
- WSP Repeater of WS.
- WZ Switch Control--positioned normal or reverse in response to a control machine switch lever.
- WL Switch Lock--control for electric switch lock.
- WLA Switch Lock Approach -- provides release for WL.
- WXS West Crossing Stick--provides release of highway crossing behind a train for a westbound move.
- XA Crossing Approach--detects the approach of a train to a highway crossing.
- XTP Crossing Track Repeater -- highway crossing control.
- XGN Crossing Gate Normal--detects highway crossing gates in the normal position (Raised).





Relay Nomenclature cont'd.

- XGR Crossing Gate Reverse--detects highway crossing gate in the reverse position (lowered).
- XGNP Repeater of XGN.
- XS Audible Indication--provides control for bell.
- XTS Crossing Track Stick Relay used at the trap circuit locations.
- XS Crossing stick relay picks up when train occupies the approach trap circuits location.
- XSPO Crossing Stick Power Off Relay.
- XSPOP- Repeater of the XSPO.
- YP Yellow Repeater -- repeats yellow position of the signal.
- YGP Yellow Green Repeater--repeats yellow or green position of the signal.
- YGPP Repeater of YGP.
- Z Function Control--operates in response to a control machine lever.





MISCELLANEOUS NOMENCLATURE

B - Number indicates pos. nominal value DC voltage.

N - Number indicates neg. nominal value DC voltage.

EB - Positive lamp energy

EN - Negative lamp energy

BX - A.C. Energy, pos. # indicates nominal voltage

NX - A.C. Energy, neg. # indicates nominal voltage

RB - Positive Track Relay

RN - Negative Track Relay

TB - Positive Track Feed

TN - Negative Track Feed

TEL-1 - Telephone

TEL-2 - Telephone

MEB - Machine Battery (Mach. Light Battery Pos.?)

MEN - Machine Negative

CEB - Machine coded positive enerty

B10-L Line Battery Pos. Energy # indicates nominal volt.

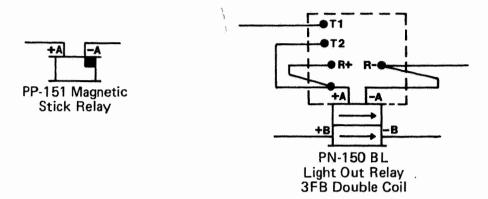
N10-L Line Battery Neg. Energy

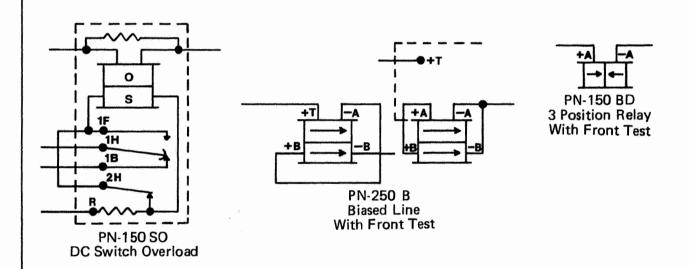
		Contacts			D
Ref.	Description	Data	WABCO Pc. No.	Base Pc. No.	Remarks
1 2	PN-150B Relay	6FB	N322500-701	N334266	Biased Line
3 4 5	PN-150BTR Relay PN-150BTR Relay	6FB 6FB	N322501-701 N322501-701	N334266 N334266	1 Ohm Track 4 Ohm Track
6 7	PN-150BD Relay	3FB-N 3FB-R	N322504-701	N335727	3-Position Line
8	PN-150BH Relay	1FB- 1F-1B	N322511-002	N349904	High Dropaway Trk
9	PN-150BL Relay	3FB	N322510-001	N344874	Light Out
10 11	PN-150BSR Relay	6FB	N322503-701	N334266	Slow Drop, Line
12	PN-150HD Relay	6FB	N322505-002	N334266	Heavy Duty
13	PN-150N Relay	6FB	N322502-701	N334266	Neutral, Line
14 15 16 17	PN-150P Relay	2FB	N322508-002	N341626	Power Transfer
18	PN-150BM Relay	2F	N322517-001	N376048	Magnetic Blowout
19	PN-150SO Relay	1FB-1B	N322512-001	N372344	Switch Overload
20 21 22 23	PP-151 Relay	GNR	N322516-001	N341785	Mag. Stick, Line
24	PN-250B Relay	6FB- 6F-3B	N322554-701	N373979	Biased, Line
25					
26 27	PN-258BSR Relay	6FB	N322551-702	N349769	Biased, Slow Release
28 29 30	PF-256 Relay	4NR	N322561-701	N384243	Highway Flasher
31 32 33	Midtex Relay	4FB	J	J	Non-Vital Mach.
34 35	KP Relay W-400 Transformer	4NR 18V 10A	N217122 N451428-0106	X253139-001	Final Stick Power Trans.

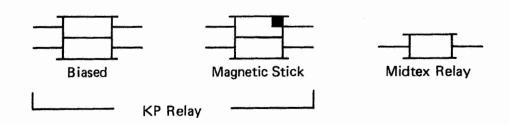
Ref.	Description	Contacts Data	WABCO Pc. No.	Base Pc. No.	Remarks
36 37 38 39	W-400 Transformer	18V 20A	N451428-0109		High Current
40 41	CCR-4 Rectifier	13.5V	N451372-0101		Batt. Charge 4-6C
42 43	CCR-5 Rectifier	3.0V	N451372-0104		Batt. Charge 1-2C
44 45	CCR-A Rectifier	13.5V	N451372-1301		Batt. Charge 6C
46 47 48 49	CCRP-6 Rectifier	30V	N451372-0905		Batt. Charge 10-13C
50	Circuit Brkr 6A	250V	J725694-0034		Heineman
51	Circuit Brkr 10A	250V	J725694-0035		Heineman
52 53	Circuit Brkr 15A	250V	J725694-0036		Heineman
54 55	Fuse 10 Amp.	250V	J071120	N238637	Cartridge Type
56	**				
57	Resistor 4.5 ^W	12W	N156683		Adj. for lights
58	Resistor 50 ^W		N189956		
59	Resistor		N156682	·	
60	Resistor 100 ^w		N239433	-	
61	Resistor 1.2"	12W	N156681	***	Adj. for Trks.
62	Resistor 150W	2W	J721587		
63	Resistor 200W	2W	J721161		Fixed KP Snub
64	Resistor 3000W	5W	J073841		
65 66 67 68	Resistor		N331321		
69 70	Diode 1N4005	600V	J723568		KP Snub
71 72	Switch		J072616		
73 74	Rheostat		J620826		WAE
75	Lgt Arrestor		N314266		Shunt 50V

Ref.	Description	Contacts Data	WABCO Pc. No.	Base Pc. No.	Remarks
76 77	Lgt Arrestor		N327989	N170501	Series 400V
78 79 80 81	Sonalert Sonalert Sonalert	2900Hz 2900Hz 4500Hz	J705057 J705057-001 J792472	 	Trk #1 Entr. Emerg. Indic. Trk #2 Entr.
82	Duplex Receptical	· 	J072030	Box J700245 Cover J069834	Grounded Recpt.
83 84 85 86 87 88 89 90 91 92 93 94 95 97					
99 100					

RELAYS DIRECT CURRENT



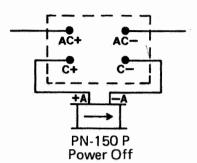


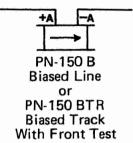


RELAYS DIRECT CURRENT

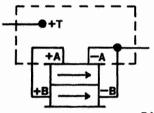


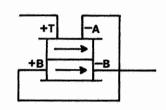
PN-258 BSR Biased Slow Release Slow Pick Up With Front Testing





PN-150 BM Magnetic HD Contact With Front Test



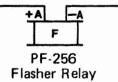




PN-150 BH Hi Drop Away Track Relay With Front Test

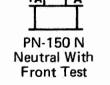
(Coils in Multiple)

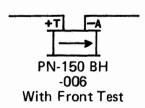
(Coils in Series)





With Front Test

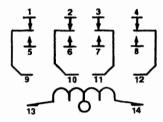




RELAY CONTACT ASSIGNMENT

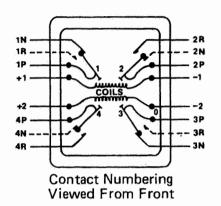
MIDTEX

Base Contact Assignment



Relay Contact Assignment

Contact Positions and Contact Symbols for KP Relays



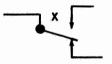
Note: Deenergized Position Of Biased Relay Is With Armature Counterclockwise, Making Reverse Contacts.

> Biased Relay

Magnetic Stick Relay

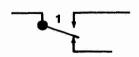
Front & Back Contact Assignment Are Per Following Table

BACK
1
2
3
4



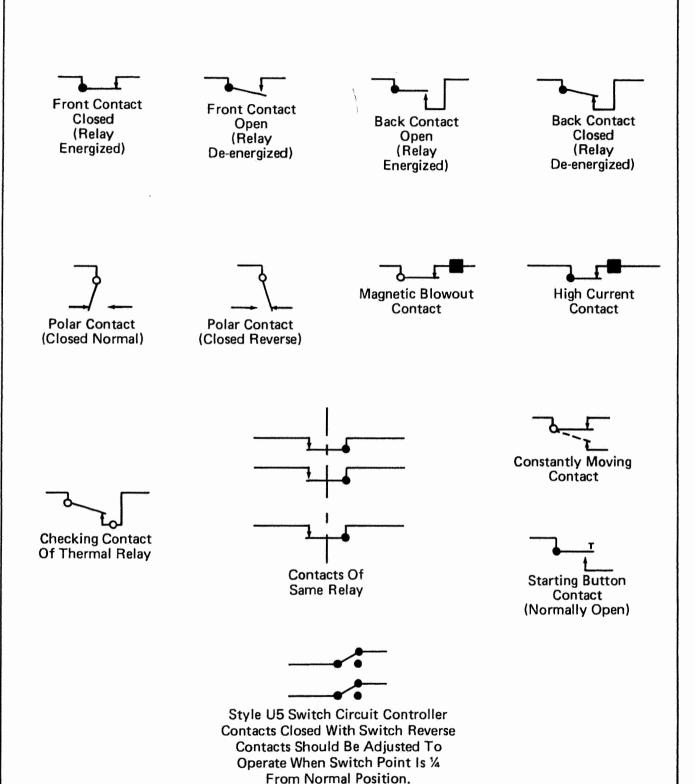
Number "X" Designates Contact Assignment

Example:



Contact No. 1 Implies the Heel Is 1H; Front 1F; the Back 1B.

RELAY CONTACTS

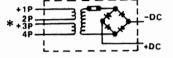


RECTIFIERS

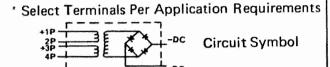
Suffix 0101 CCR-4 0104 - CCR-5

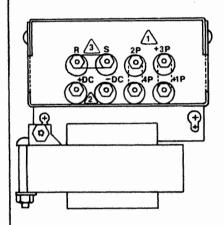
Suffix 1301 - CCR-A

* Select Terminals Per Application Requirements



Circuit Symbol





 \bigwedge

CORRECTIONS: AC LINE TO +1P & 4P

FOR 120V JUMPER +1P TO +3P, 2P TO 4P

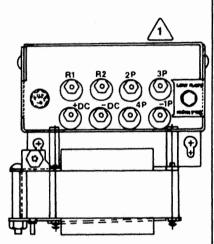
FOR 240V JUMPER +3P TO 2P



CCR — provides full-wave rectification & efficient current regulation for battery charging service. Charging current is available from 0 to maximum rated output with two-rate charge capability.

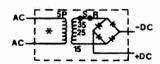
CCR-A — is a self contained full-wave rectifier designed for automatic battery charging service. It has an adjustable high rate & an adjustable low rate of charge & automatically cycles between the two rates. CCR-A contains a solid state control circuit for automatic monitoring of the output voltage and automatic battery charging rate adjustment.

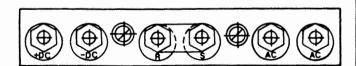
The low charging rate is determined by an external resistor connected across R_1 R_2 .



Suffix - 0905

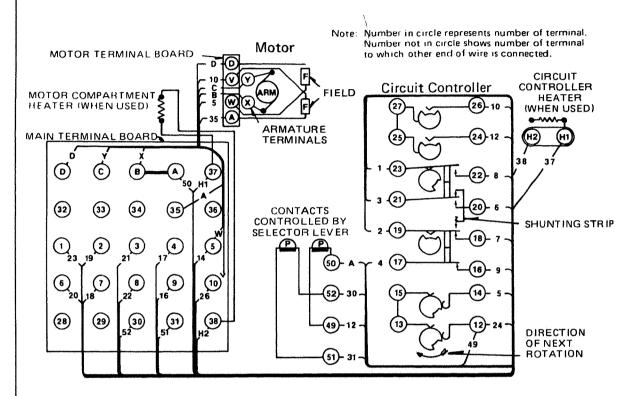
Circuit Symbol





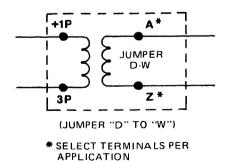
* Select transformer leads per application requiements. Tape unused leads separately with 3/4 black friction tape (A77358). Tie securely to transformer, with all marking visable.

M23-A SWITCH MACHINE

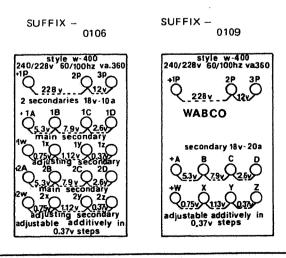


Wiring Diagram For Standard D-C. High-voltage Switch Machine With Split Field Motor.

TRANSFORMERS



TRANSFORMER FACEPLATES



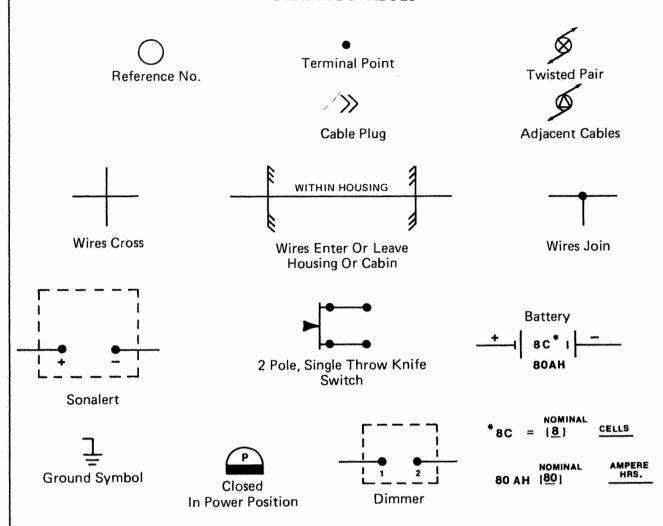
GRAPHIC SYMBOLS SIGNALS Automatic Controlled HIGH SIGNALS (Yellow) Fixed Red Non-automatic **J**k≪ SIGNAL OPERATING CHARACTERISTICS **DWARF SIGNALS** HIGHWAY CROSSING WARNING SIGNAL POLE **EQUIPMENT EQUIPMENT** Horn Bell Cap Automatic Crossbuck -**Phone** Δ Lights - A Δ Lights Gate Route Sign Symbol indicates stick control of signal; restoring of controlling lever to normal position is required before signal can again be cleared for a following train. Symbol indicates non-stick control of signal, restoring of controlling lever to normal position is not required before signal can again be cleared for a following train.

TRACK APPLIANCES Style M23-A Power Switch & Lock Movement **RAILWAY TRACKS** 1.0 Meter Gauge Track Style U5 Switch Circuit Controller Bootleg Connections To Rail **INSULATED RAIL JOINTS** Track Circuits Track Circuit On Left In Both Directions None On Right Track Circuit On Right None On Left Track Circuit Bond Insulated Switch Rod

SWITC SINGLE LI	
Set For Straight Track	Set For Turnout
DOUBLE L	INE PLAN
/,	
	Dayler
(Interlocked)	(Interlocked)
Set For Straight Track	Set For Turnout
	1
(Non Interlocked)	(Non Interlocked)
Set For Straight Track	Set For Turnout
▼	Power Switch
	-
Controlled Switch Lock	Dual Control Machine
BUILD	DINGS
Operator Facing Track	Stations & Other Buildings
Control Point	

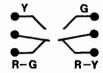
MISCELLANEOUS APPARATUS **RESISTORS CAPACITORS** DIODES (Rectifier) Fixed Fixed Fixed Tapped Voltage Limiter Variable Resistor Or Rehostat Suppressor Lamp **⊗~~~~⊗~~~~⊗** Capacitor Unit Terminal Strap LINE LOAD **Dual Circuit Breaker** Fuse Single Circuit Breaker **Utility Box Dual Outlet**

DRAWING SYMBOLS





H-2 Searchlight Signal Operating Mechanism



Contacts On Searchlight Signal Mechanism

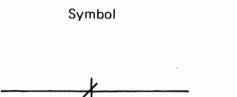
Y = Yellow (Contact Closed When Signal Displays Yellow Aspect)

G = Green (Contact Closed When Signal Displays Green Aspect)

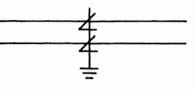
R-G = Red-Green (Contact Closed When Signal Displays Red Or Green Aspect)

R-Y = Red-Yellow (Contact Closed When Signal Displays Red Or Yellow Aspect)

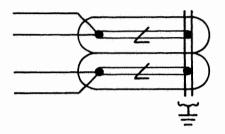
LIGHTNING ARRESTERS



Physical

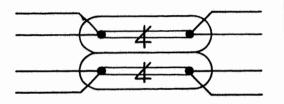


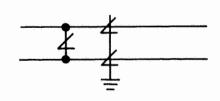
Series



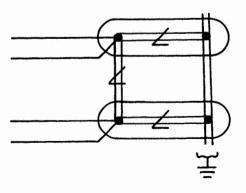


Shunt



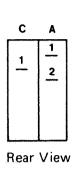


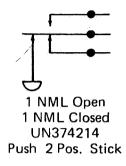
Series-Shunt

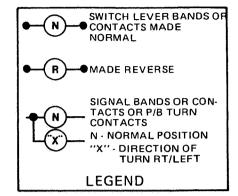


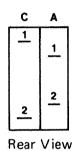
PLUG CONNECTORS RACK RACK R2 R1 R2 (1) 7 R1 [1] 7 CABLE DESTINATION IDENTIFICATION ASSIGNED TO MALE CONNECTOR MOUNTED CABLE NO. -IN RACK 2 AND CABLE BETWEEN R1 - R2 **END TERMINATING IN RACK 2** CABLE CONNECTOR PIN ASSIGNMENT Relay Rack Fixed (Male) ✓ CABLE 1 1 5 9 13 17 21 5 9 13 17 21 25 <u>25</u> 29 31 30 <u>29</u> 32 Cable Connector Pin Assignment (Female) Control Consol Fixed (Male) 29 25 21 17 <u>13</u> 9 5 1

PUSH BUTTON CONTROLLERS

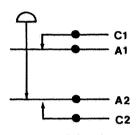




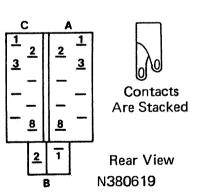




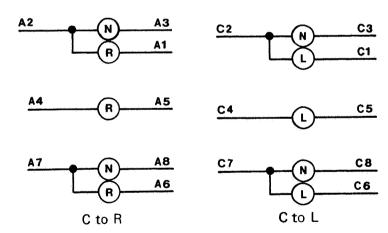


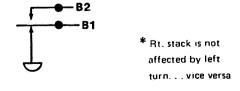


UN380618 1 NML Open 1 NML Closed PUSH PULL ONLY

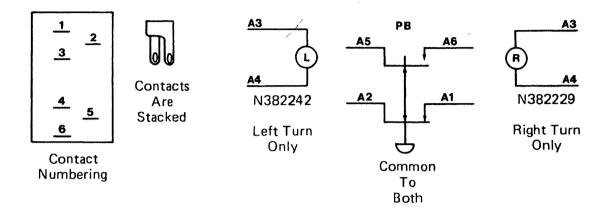


1 Nor. Open — Push 2 Nor. Closed, 3 Nor. Open C to L Or C to R UN 380619 PUSH TURN CL/CR





PUSH BUTTONS CONT.



Push/Pull; Turn Right Or Left No Push/Pull

REF	DESCRIPTION	CONTACTS DATA	WABCO PC.NO.	BASE PC.NO.	REMARKS
. 1	PN-150B RELAY	6FB	N322500-701	N334266	BIASED LINE
2					
3	PN-150BTR RELAY	6FB	N322501-701	N334266	10HM TRACK
4	PN-150BTR RELAY	6FB	N322501-701	N334266	4 OHM TRACK
5					
6					4.
7.	PN-150BD RELAY	3FB-R	N322504-701	N335727	3-POSITION LINE
8	PN-150BH RELAY	IFB- IF-IB	N322511-00Z	N349904	HIGH DROPAWAY TRK
9	PN-150BL RELAY	3FB	N322510-001	N344874	LIGHT OUT
/0	PN-150BSR RELAY	GFB	N322503-701	N334266	SLOW DROP, LINE
)]					
12	PN-150HD RELAY	6FB	N322505-002	N334266	HEAVY DUTY
13	PN-150N RELAY	6FB	N322502-701	N334266	NEUTRAL, LINE
14	PN-150P RELAY	2FB	N322508-002	N341626	POWER TRANSFER
15					
16					
17.			v		
18	PN-150BM RELAY	ZF	N322517-001	N376048	MAGNETIC BLOWOUT
19	PN-150 SO RELAY	IFB-1B	N322512-001	N372344	SWITCH OVERLOAD
20	PP-151 RELAY	GNR	N322 516-001	N341785	MAG. STICK, LINE
21					
22					
23					•
24	PN-250B RELAY	GF-3B	N322554-701	N373979	BIASED, LINE
25					
26	PN-258BSR RELAY	6FB	N322551-702	N349769	BIASED, SLOW RELEASE
27					
28	PF-256 RELAY	4NR	N3 22561-701	N384243	HIGHWAY FLASHER
29					
30					discourse and a committee in the minimal part of the second control of the second contro
31	MIDTEX RELAY	4FB	J726153-0053	J725866	NON-VITAL MACH.
32					
33		L			
34	KP RELAY	4NR	N217122	X253139-001	FINAL STICK
	.	•	•		
					WABCO

DATE : 3-14-18 : GFM BOULOGNE TO VILLA ROSA SH 30
MATERIAL TAB

REF	DESCRIPTION	CONTACTS DATA	WABCO PC. NO.	BASE PC.NO.	REMARKS "
35	W-400 TRANSFORMER	18V 10A	N4514Z8-0106	~~	POWER TRANS
36	W-400 TRANSFORMER	IBV ZOA	N451428-0109		HIGH CURRENT
37					
38					
39					
40	CCR-4 RECTIFIER	13.5V	N451372-0101	_	BATT CHARGE 4-60
41					
42	CCR-5 RECTIFIER	3,04	N451372-0104	_	BATT, CHARGE 1-2C
43	,				
44	CCR-A RECTIFIER	13,5V	N451372-1301		BATTICHARGE GCLA
45					
46	CCRP-6 RECTIFIER	30V	N451372-0905		BATTCHARGE 10-130
47					
48					
49					
50	CIRCUIT BRKR GA	250 V	J725694-0034		HEINEMAN
51	CIRCUIT BRKR IOA		J725694-6035		HEINEMAN
52	CIRCUIT BRKR 15A				HEINEMAN
53					
54	FUSE 10 AMP	250V	J07/120	N238637	CARTRIGE TYPE
55					
56					
57	RESISTOR 4,5W	12W	N156683		ADJ. FOR LIGHTS
58	RESISTOR 50W		N189956		
59	RESISTOR		N156682		
60	RESISTOR 10001		N239488		
61	RESISTOR 1.2W	12W	N156681		ADJ. FOR TRKS.
62	RESISTOR 150W	2W	J721587		
63	RESISTOR 200W	2W	5721161		FIXED KP SNUB
64	RESISTOR 3000W		J073841		•
65	RESISTOR		N331321		
66					
67	-	-			
68					
	#:		 	!···	
					WABCO

DATE: 3-14-78

ARGENTINA RWY
BOULOGNE TO VILLA ROSA SH 31
MATERIAL TAB

REF	DESCRIPTION	CONTACTS DATTA	WABCO PC. NO.	BASE PC.NO.	REMARKS "	
69	DIODE 1N4005	600 V	J723568		KP SNUB	
70						
71	SWITCH	_	J072616			
72						
73	RHEOSTAT	~	J620826			
74						
75	LGT ARRESTOR		N314266		SHUNT SOV	
76	LGT ARRESTOR	-	N327989	N170501	SERIES 400V	
77	,					
78	SONALERT	290042	J705057	_	TRK & I ENTR	
79	SONALERT	2900 HZ	J705057-001		EMERG. INDIC,	
80	SONALERT	4500HZ	J792472	-	TRK * Z ENTR.	
81						
82	DUPLE X RECEPTICAL	_	J072030	BOX J700245 COVERJ069834	GROUNDED RECPT	
83						
84						
85						
86						
87						
88						
89						
90						
91						
92			,			
93						
94						
95						
96						
97						
98						
99					•	
100						
	WABCO					
	A STATE OF THE STA		DATE : 3-14-78	ARGENTIA		
			: 4FM	BOULOGNE TO MATERIA	VILLA ROSA SH_34	

			. #
	1		
			э
			•
			% % •
			ø