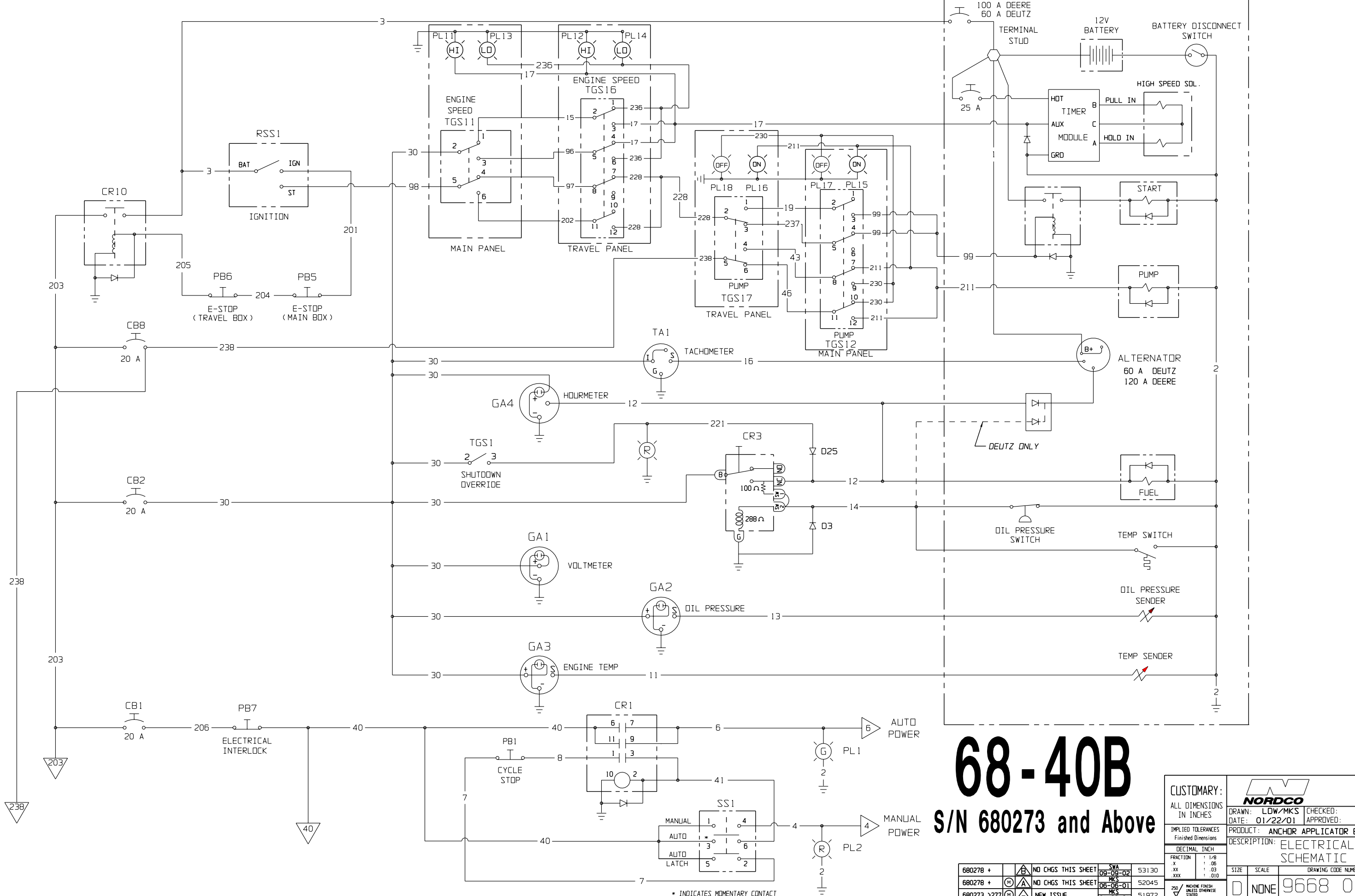


ENGINE COMPONENTS



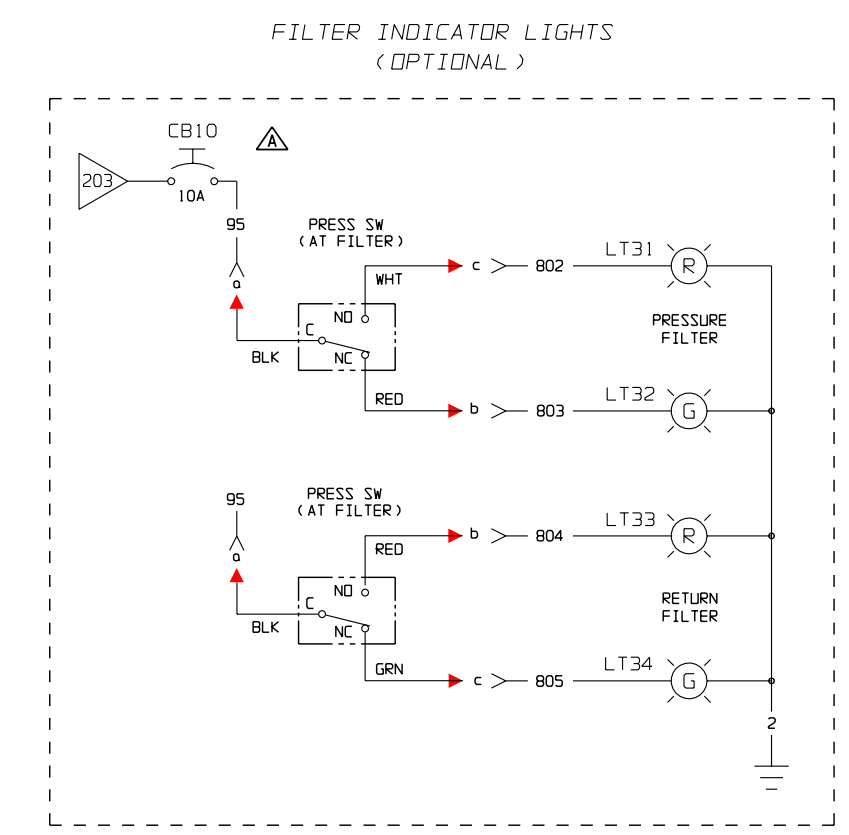
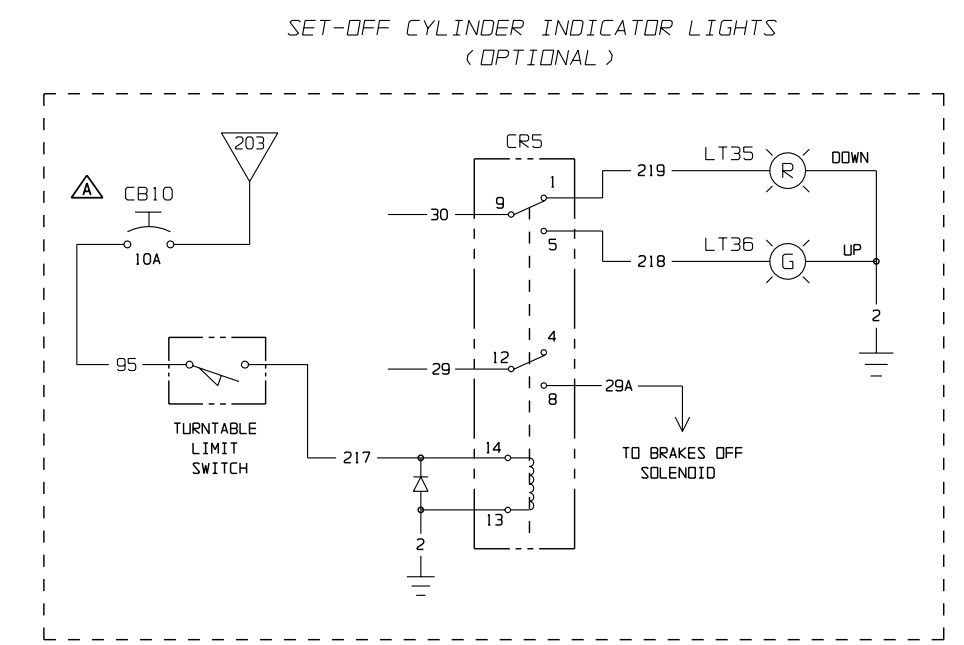
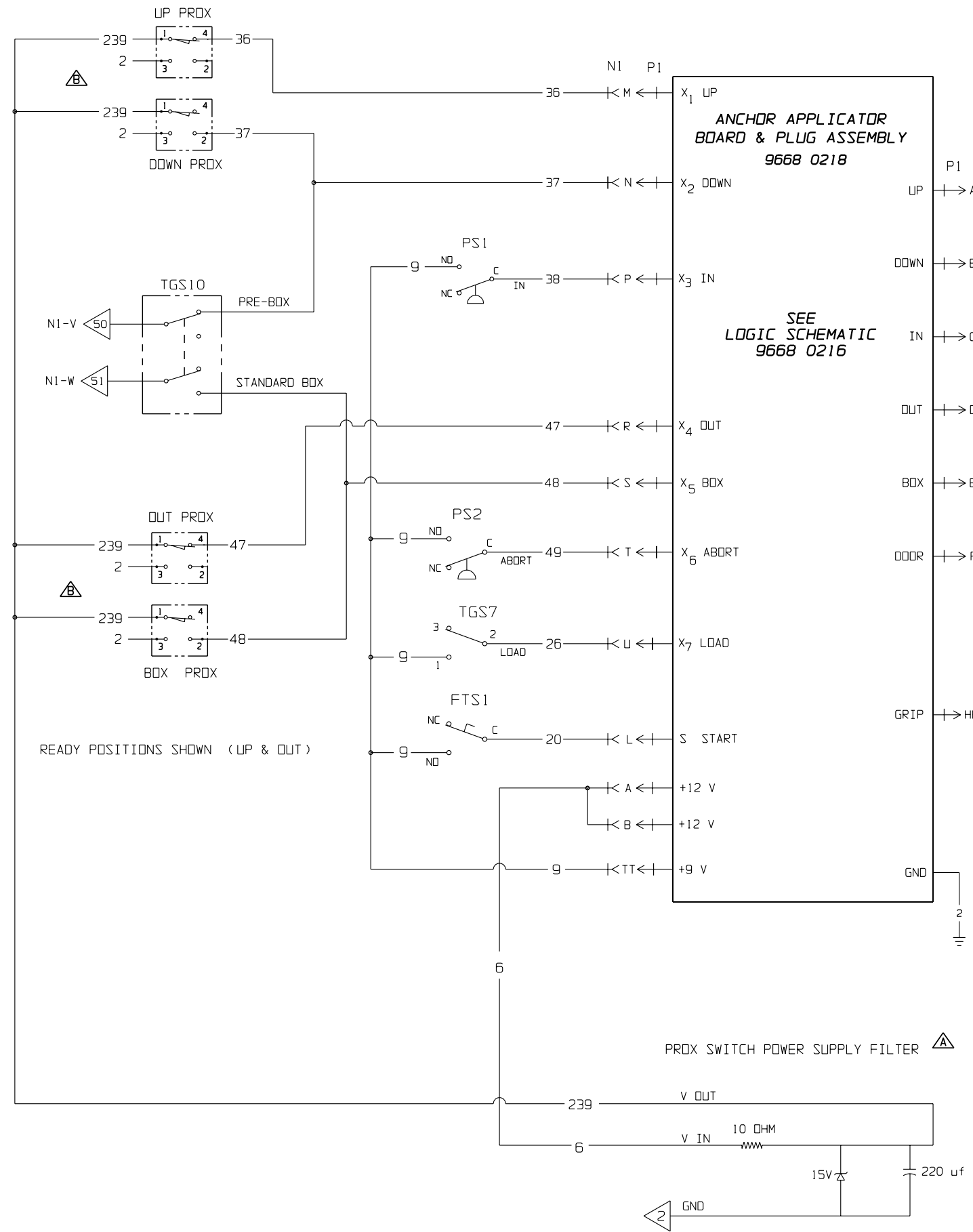
68-40B

S/N 680273 and Above

CUSTOMARY: ALL DIMENSIONS IN INCHES		NORDCO Equipment	
DRAWN: LW/MKS	CHECKED:	DATE: 01/22/01	APPROVED:
IMPLIED TOLERANCES Finished Dimensions		PRODUCT: ANCHOR APPLICATOR E	
DESCRIPTION: ELECTRICAL SCHEMATIC		SIZE: NONE	SCALE: NONE
FRACTION: 1/8, .06, .03, .010	DECIMAL INCH	DRAWING CODE NUMBER: 9668 0381	REV: B
250 / INCHES FINISH UNLESS OTHERWISE STATED		ASSEMBLY:	SHEET 1 OF 3

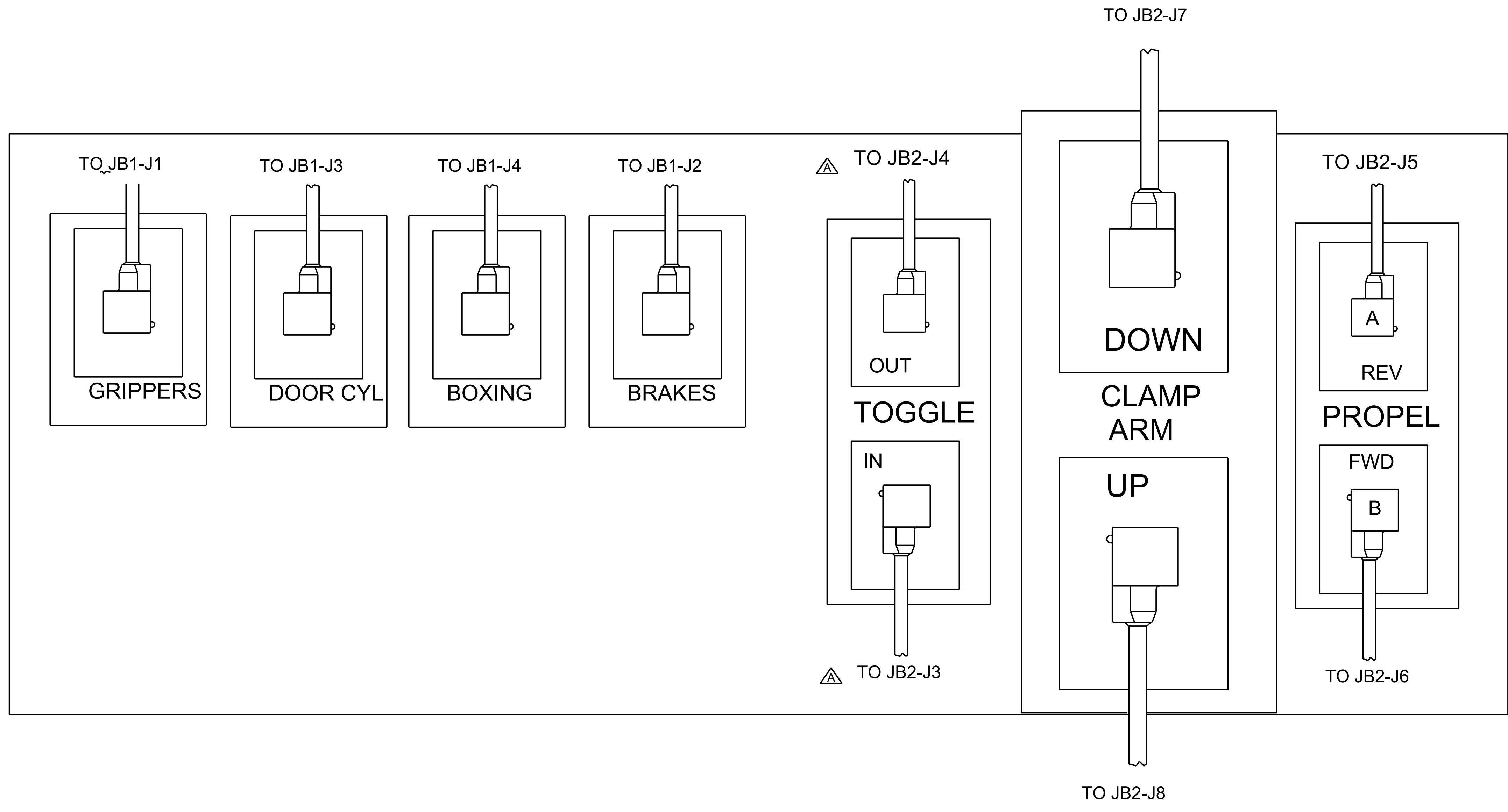
680278 +	NO CHGS THIS SHEET	SWA 09-09-02	53130
680278 +	NO CHGS THIS SHEET	MKS 06-06-01	52045
680273 >277	NEW ISSUE	MKS 01-22-01	51972
S/N	REV	CHANGE	BY: DATE: ENG. ORDER #

* INDICATES MOMENTARY CONTACT



68-40B
S/N 680273
and Above

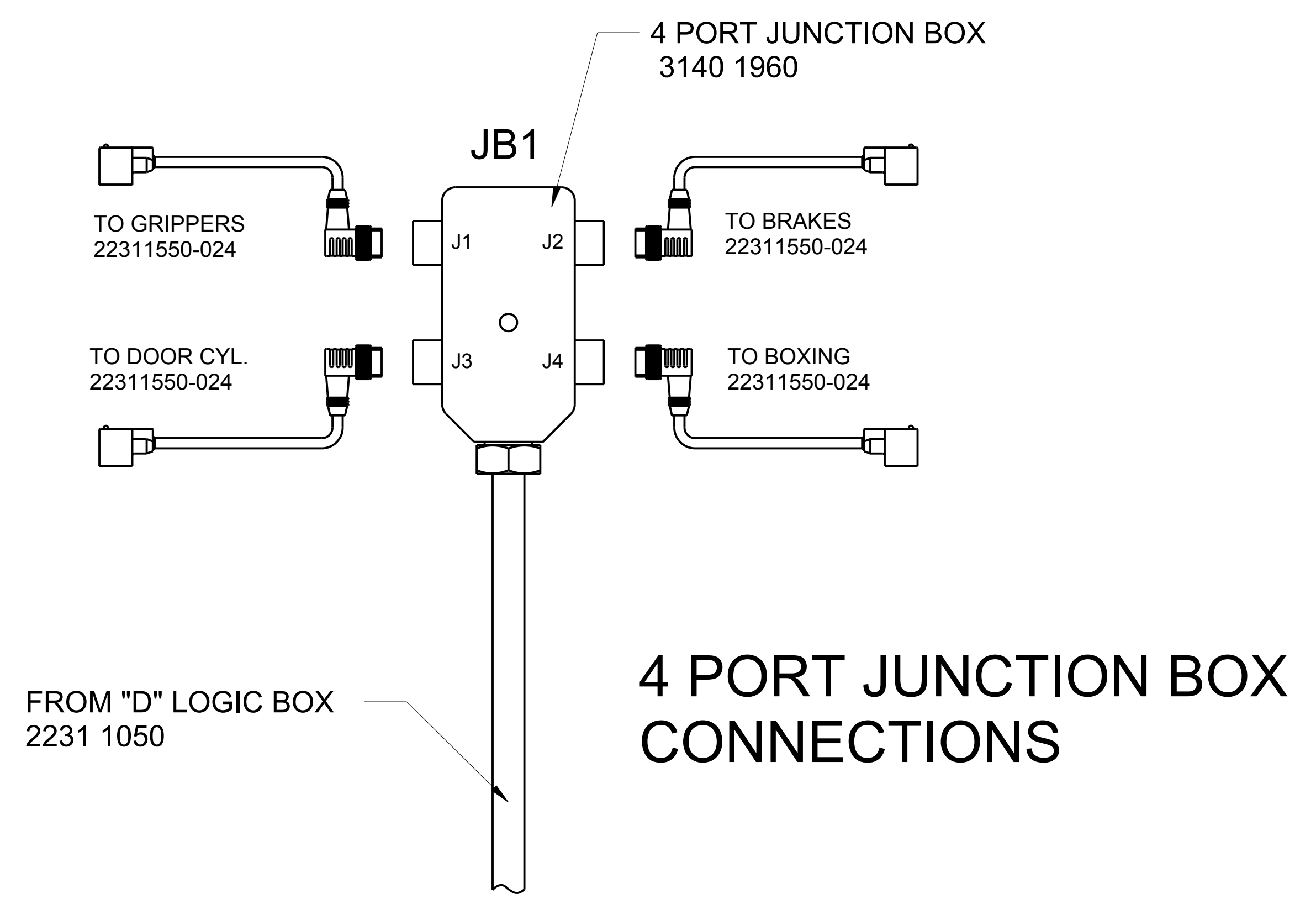
CUSTOMARY: ALL DIMENSIONS IN INCHES IMPLIED TOLERANCES: DECIMAL INCH FRACTION: 1/8, .06, .03, .010 FINISH: 250 / MACHINE FINISH UNLESS OTHERWISE STATED PLANE ANGLES: ONE DEGREE		Equipment DRAWN: LW/MKS DATE: 01/22/01 CHECKED: APPROVED: PRODUCT: ANCHOR APPLICATOR E DESCRIPTION: ELECTRICAL SCHEMATIC	
OPTIONS: WIRE 95 > CB10, PROX'S # READY WIRE 239 WAS 9 NEW ISSUE	SWA: 09-09-02 MKS: 06-06-01 MKS: 01-22-01	53130 52045 51972	SIZE: NONE SCALE: NONE DRAWING CODE NUMBER: 9668 0381 REV: B
SHEET 3 OF 3		ASSEMBLY:	



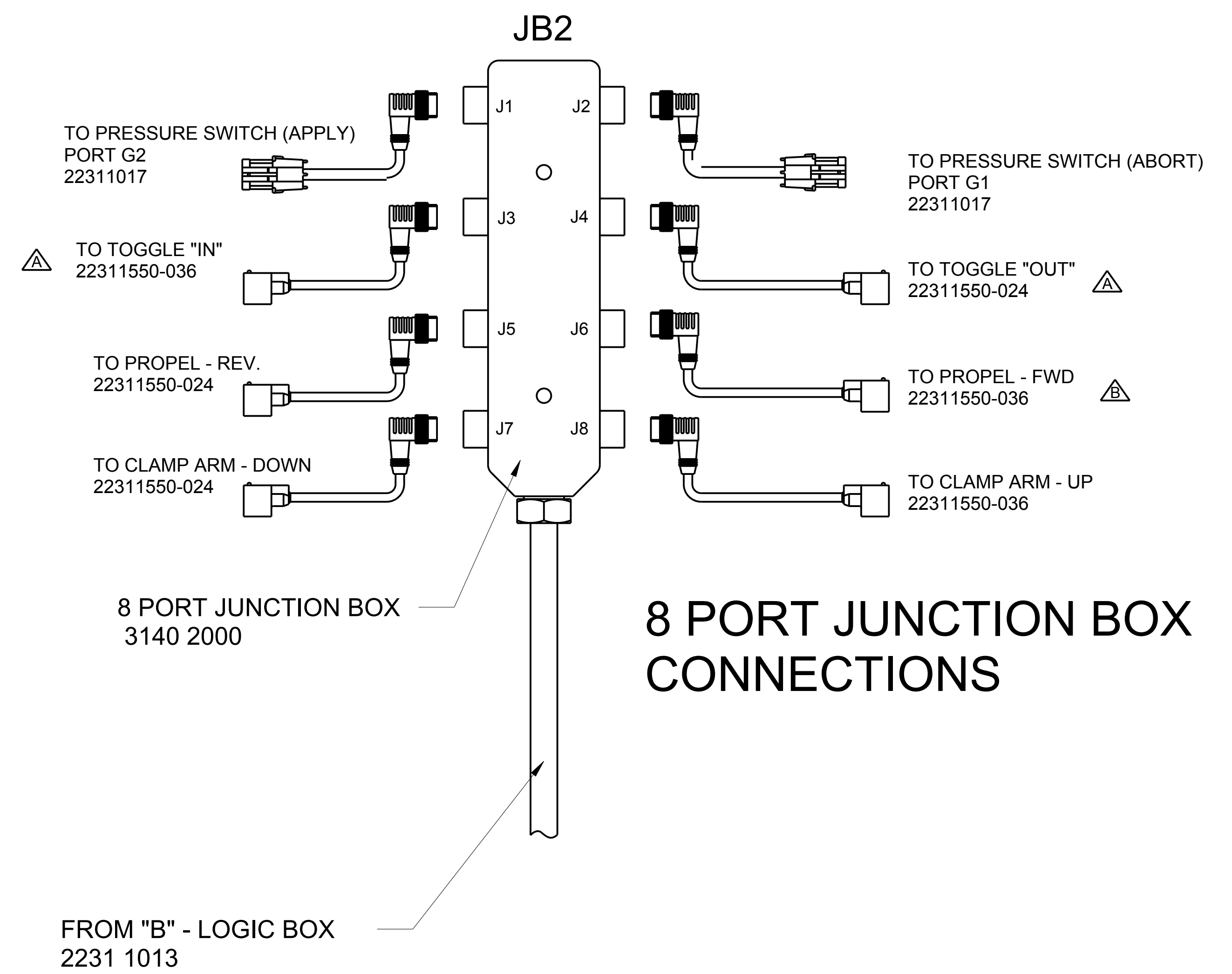
68-35

S/N 680232 and Above

CUSTOMARY: ALL DIMENSIONS IN INCHES					
PRODUCT: ANCHOR APPLICATOR E		DESCRIPTION: MANIFOLD CONNECTIONS			
IMPLIED TOLERANCES IN INCHES		NONE		FRACTION: ± .18 X: ± .06 XX: ± .03 XXX: ± .010	
REVERSED PROPEL CABLES		JLE 08-02-99 BMB 08-02-99		51793	
UPDATE TOGGLE WIRING		BW 08/14/98		-	
NEW ISSUE		RJH		-	
REV CHANGE		DRAWN BY: DATE:		CHECKED BY: DATE:	
E.C.O.#		PLANE ANGLES IN °		ASSEMBLY:	
SIZE: D NTS		DRAWING CODE NUMBER: 96680294		REV: C	
SHEET 1 OF 3				ASSEMBLY:	

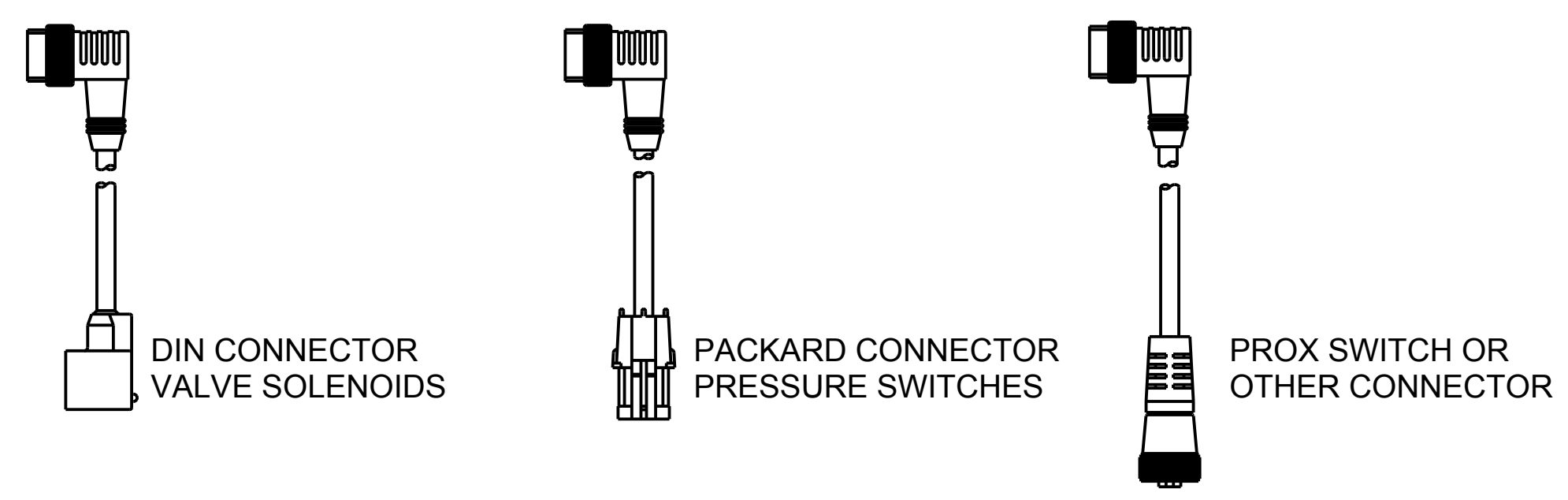


4 PORT JUNCTION BOX CONNECTIONS



8 PORT JUNCTION BOX CONNECTIONS

DIN AND PACKARD CABLES CONNECT AT MAIN MANIFOLD - ATTACHED TO HYDRAULIC TANK.



68-35
S/N 680232 and Above

NO CHANGE THIS SHEET		SWA	NONE	IMPLIED TOLERANCES		DESCRIPTION:	
22311550-036 WAS 22311550-024		JLE 07/29/99	JLE 08-02-99	51793	FRACTION X	± .18	MANIFOLD CONNECTIONS
UPDATE TOGGLE WIRING		BW 08/14/98	BMB 08-02-99	-	.XX	± .06	
NEW ISSUE		RJH 2/7/97	-	-	.XXX	± .03	
REV	CHANGE	DRAWN BY: DATE:	CHECKED BY: DATE:	E.C.O.#	PLANE ANGLES °-'	± .010	ASSEMBLY:-

CUSTOMARY: ALL DIMENSIONS IN INCHES

PRODUCT: ANCHOR APPLICATOR E

DESCRIPTION: MANIFOLD CONNECTIONS

SIZE: D NTS

SCALE: 1:1

DRAWING CODE NUMBER: 96680294


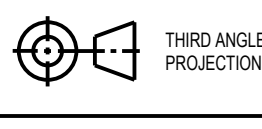

REV: C

ASSEMBLY:-

SHEET 2 OF 3



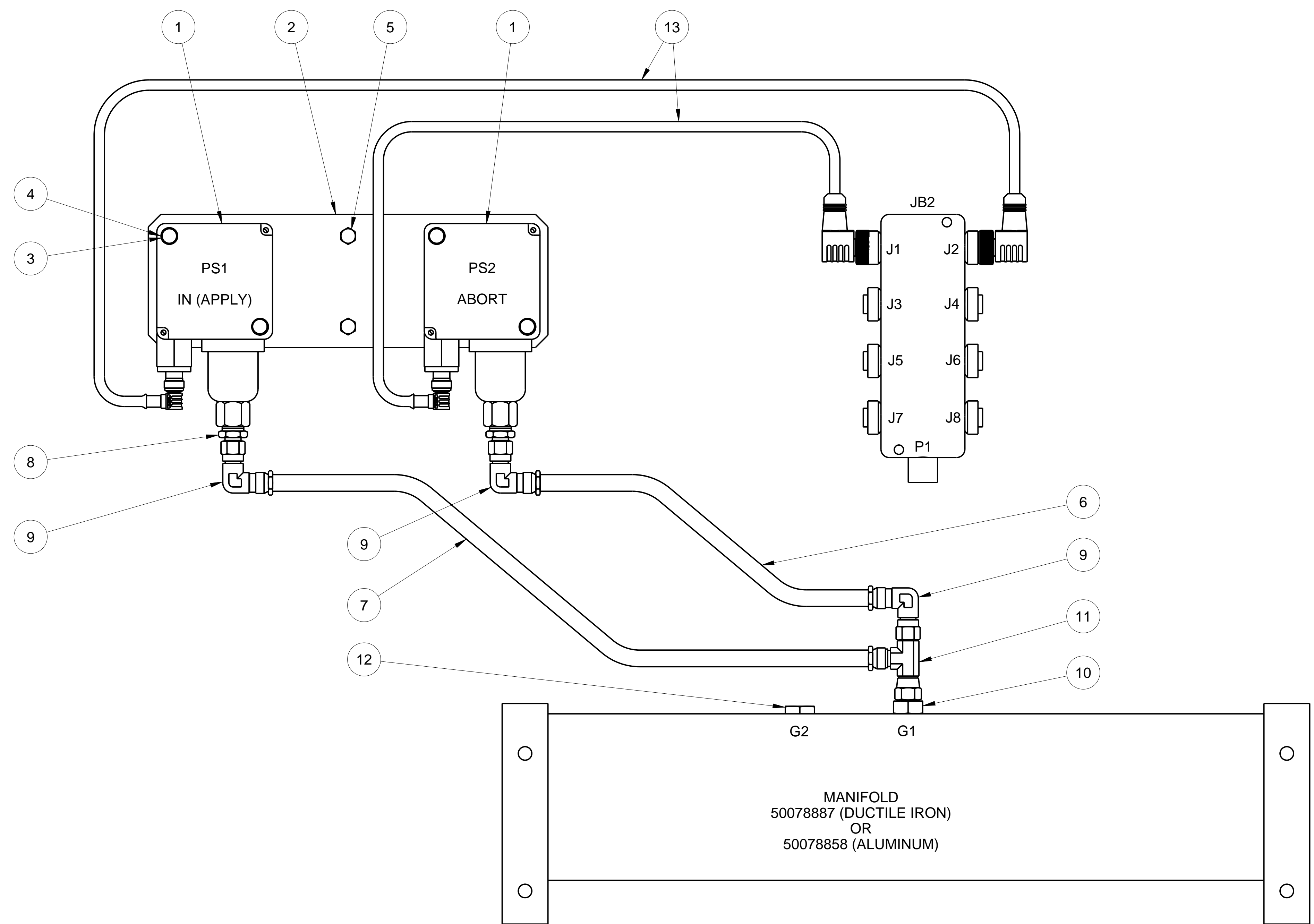
Ports for Prox Cables
 "F" Cable 22311212-132 TO OUT PROX
 "G" Cable 22311212-132 TO UP PROX
 "H" Cable 22311212-132 TO BOX PROX
 "J" Cable 22311212-132 TO DOWN PROX

CUSTOMARY: ALL DIMENSIONS IN INCHES		 	
IMPLIED TOLERANCES		PRODUCT: ANCHOR APPLICATOR E	
FRACTION	± .18	DESCRIPTION: MANIFOLD CONNECTIONS	
X	± .06	SIZE	SCALE
XX	± .03	DRAWING CODE NUMBER	
XXX	± .010	REV.	
 THIS SHEET ADDED.		NONE	
REV	CHANGE	DRAWN BY:	CHECKED BY:
		DATE:	DATE:
		E.C.O.#	PLANE ANGLES 45°-1°
ASSEMBLY:-		SHEET 3 OF 3	

THIS SHEET ADDED.	SWA				
	07-25-13				

D NTS 96680294 C

BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	UNIT	PART NAME	DWG SIZE
1	78893009	2		SWITCH,PRESSURE 400-3000PSI	
2	13128505	1		BRACKET, MTG PRESSURE SWITCH	
3	2774321	4		CAPSCREW, HEX HEAD 1/4 X 2	
4	3042013	6		HEX LOCKNUT 1/4-20 UNC	
5	2774336	2		CAPSCREW, HEX HEAD 1/4 X 2-3/4	
6	HE04036JJC1BCX	1		HOSE, 1/4 X 36	
7	HE04042JJC1BCX	1		HOSE, 1/4 X 42	
8	1980742	2		ADPT .562-18M JIC X 3/8MP	
9	1955140	3		ELBOW, SWIVEL 9/16	
10	2076240	1		ADAPTER, #6-8 STRAIGHT O-RING	
11	1958041	1		TEE, SWIVEL RUN .562-18	
12	2098750	1		PLUG, 3/4-16	
13	22311120-048	2		CABLE,EUROFAST-MINIFAST 48"LG	



NOTE:
GAUGE PORTS G1 & G2 BOTH ARE TOGGLE CYLINDER PISTON PRESSURE.

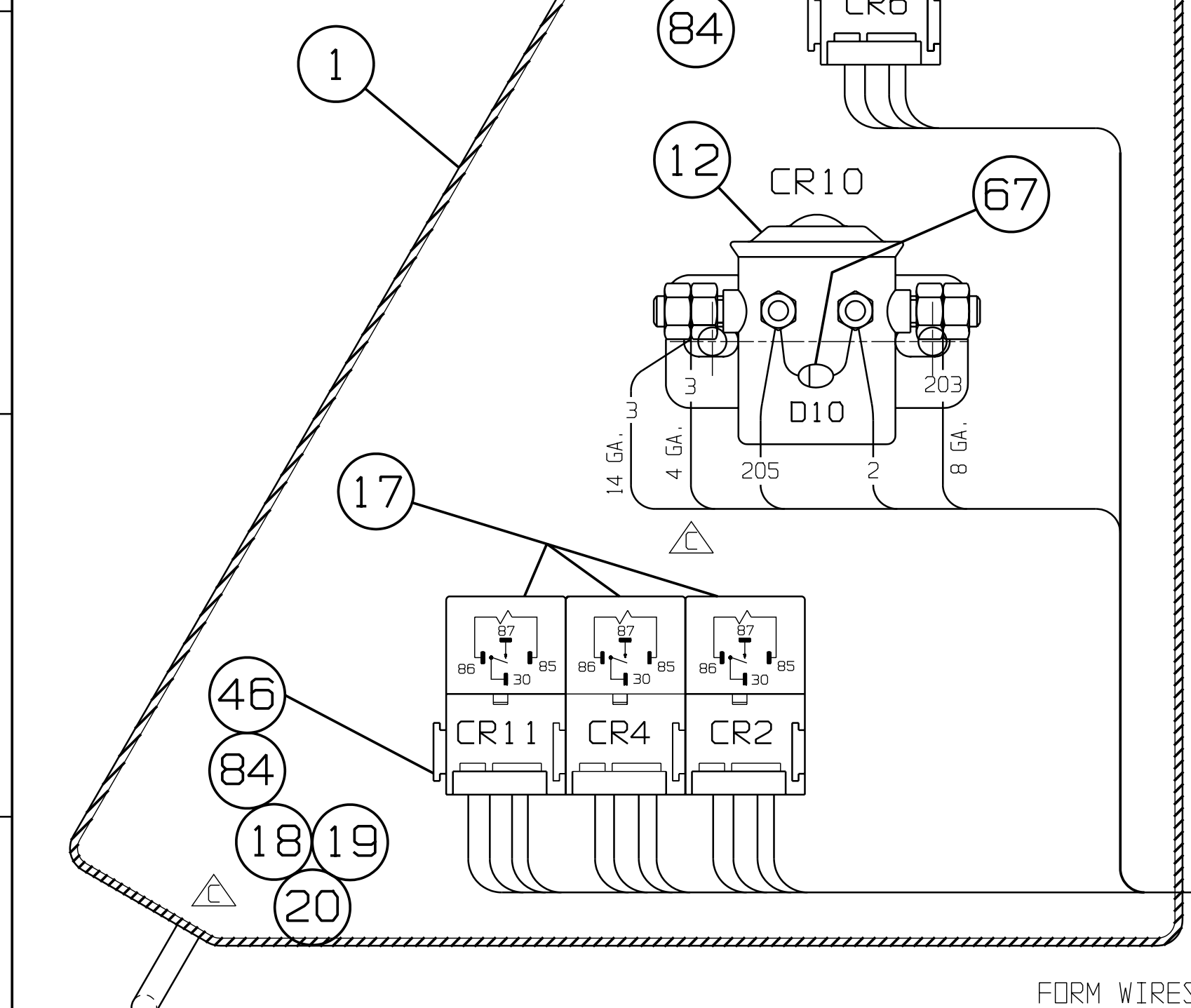
REF:
FRAME 33380010
ELECTRICAL SCHEMATIC 96680381DWG
CABLING 96680294DWG

INSTALLATION OF
98680059 KIT
PRESSURE SWITCH CONVERSION
BARKSDALE TO ALLEN BRADLEY

IMPLIED TOLERANCES		FRACTION		X		XX		XXX	
± .18		± .06		± .03		± .010			
CUSTOMARY:		ALL DIMENSIONS IN INCHES		NORDCO		THIRD ANGLE PROJECTION			
PRODUCT:		ANCHOR APPLICATOR		DESCRIPTION:		INSTALL,PRESS SWITCH IN/ABORT			
SIZE	SCALE	DRAWING CODE NUMBER		REV.					
D	1/2	97685003DWG		-					
ASSEMBLY:-		98680059		SHEET 1 OF 1					

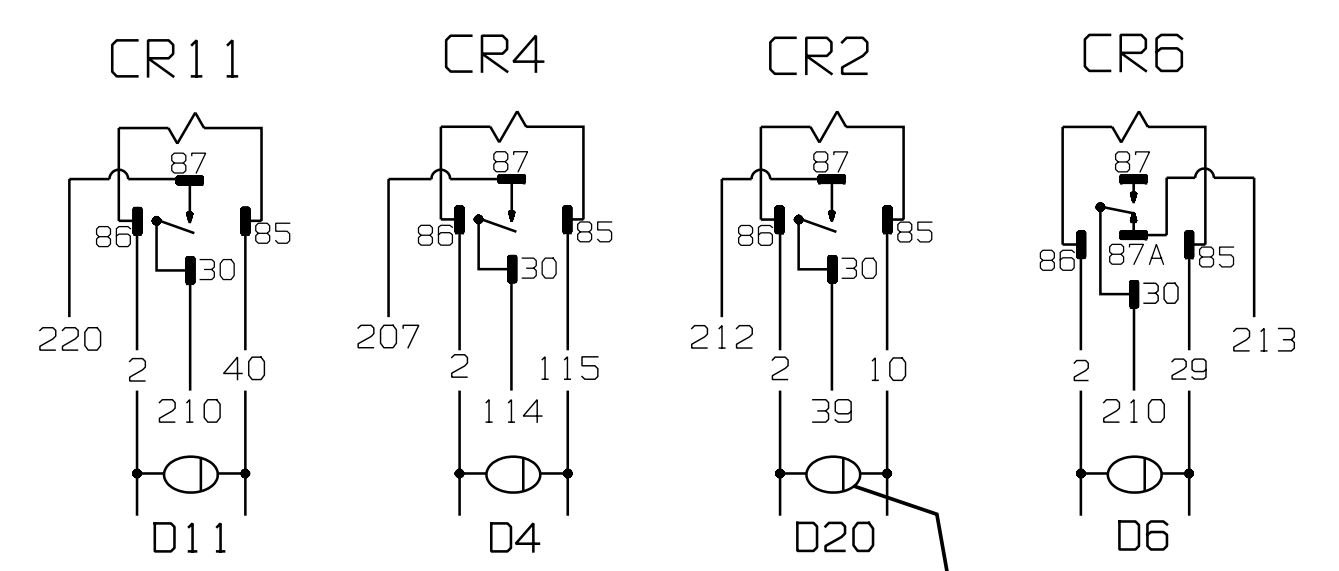
(REF: 9668 0310)

- CR1 - AUTO/MANUAL POWER
- CR2 - HORNS
- CR3 - MURPHY SHUTDOWN
- CR4 - OIL COOLER
- CR6 - BRAKE LIGHTS
- CR10 - MAIN IGNITION
- CR11 - ELECTRICAL INTERLOCK (PARK/RUN)
- CR12 - LATCHING RELAY TRAVEL LIGHTS & BACKUP ALARMS

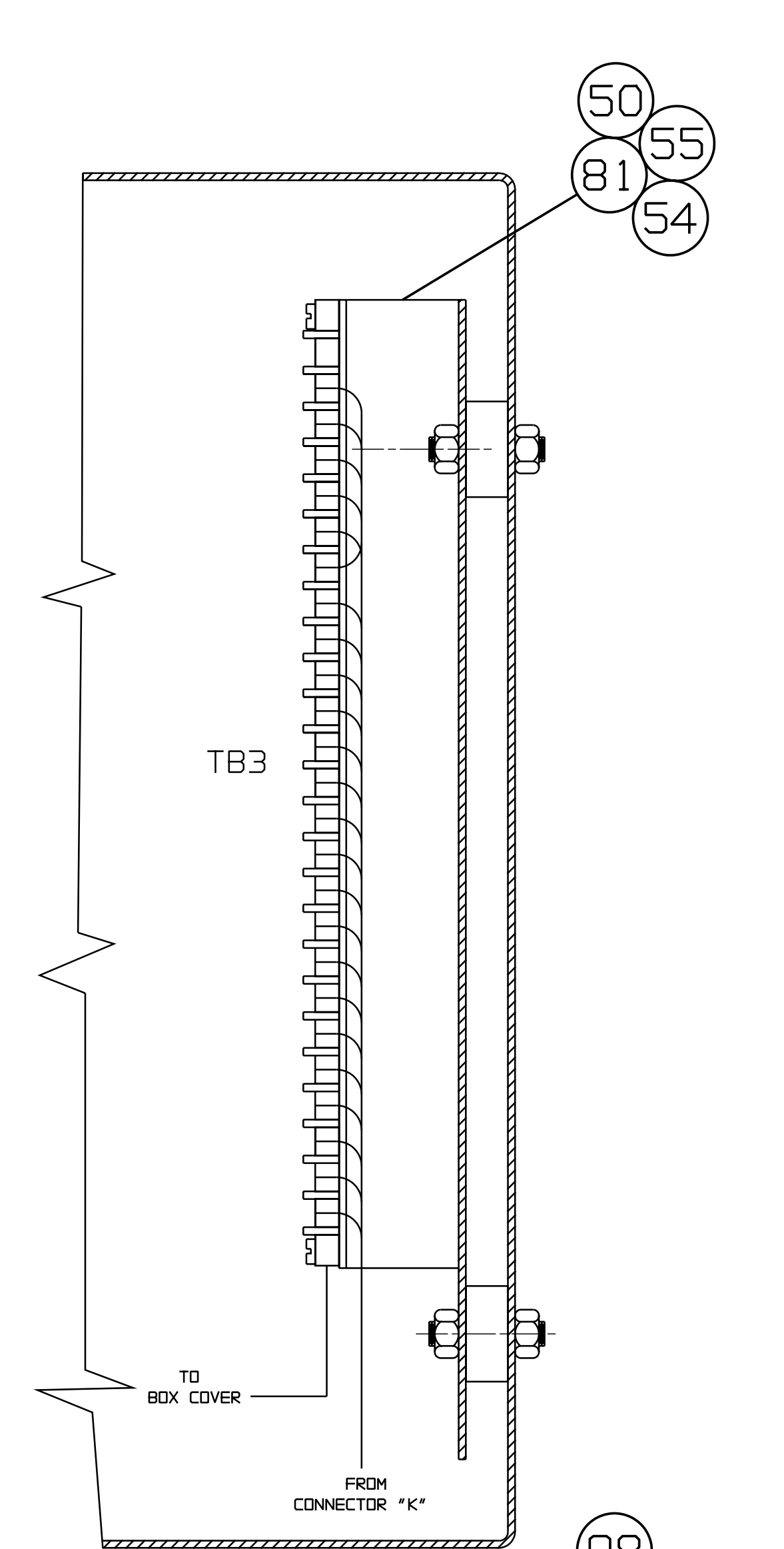
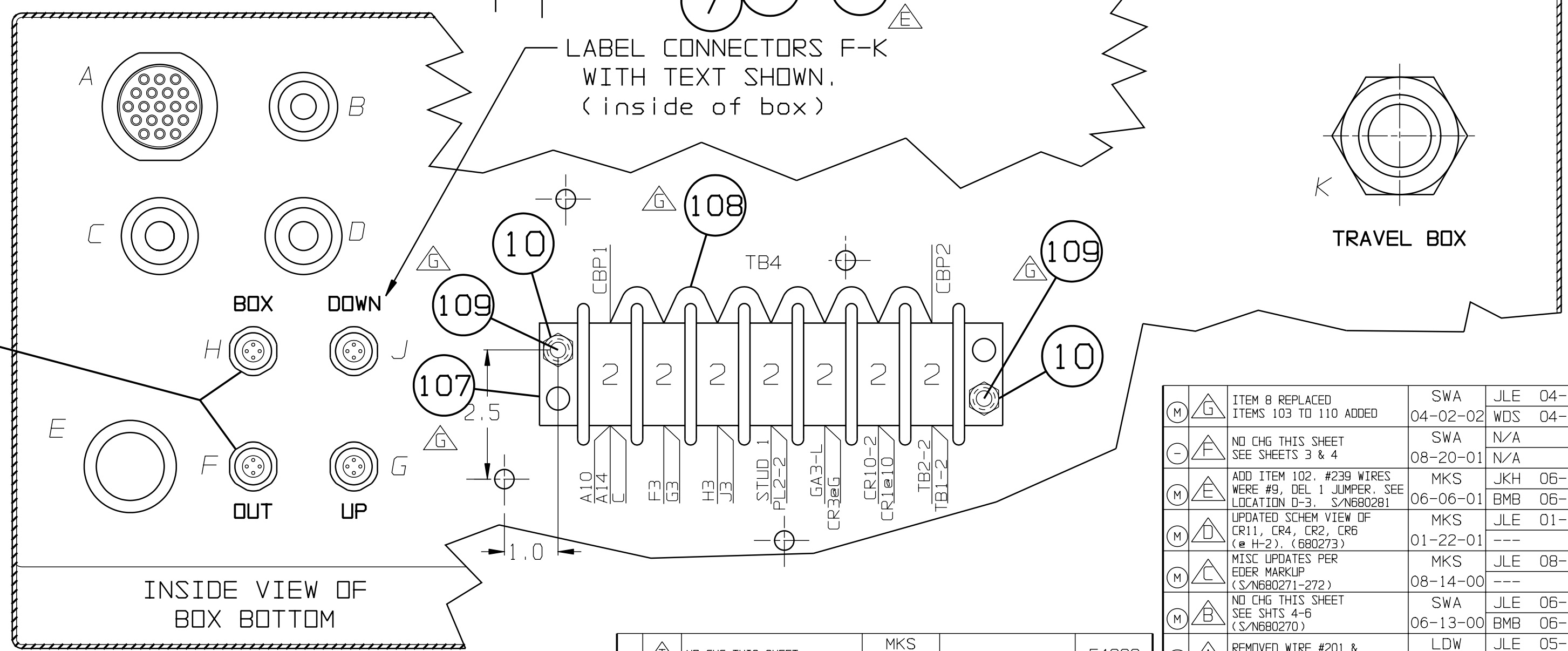
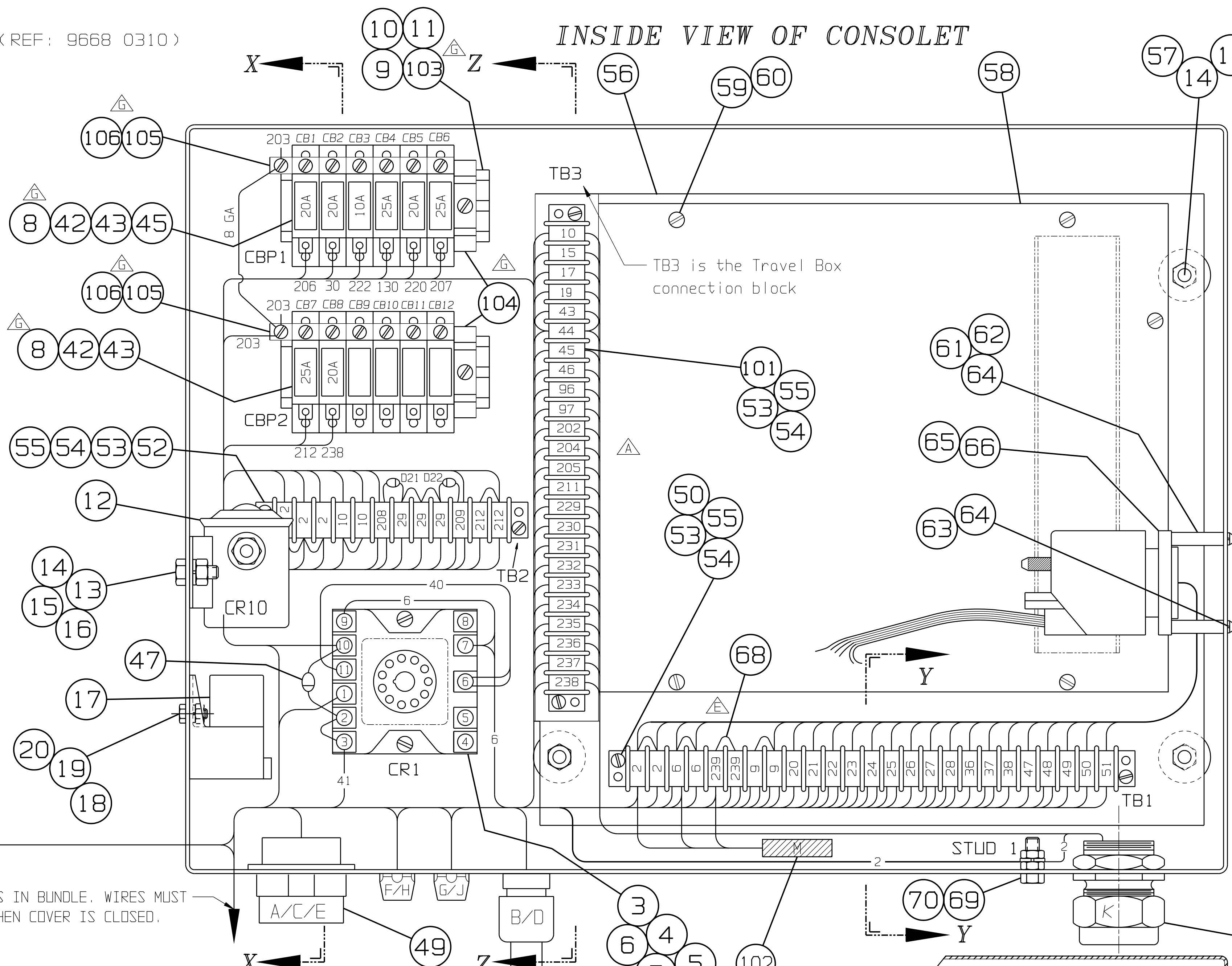


VIEW X-X

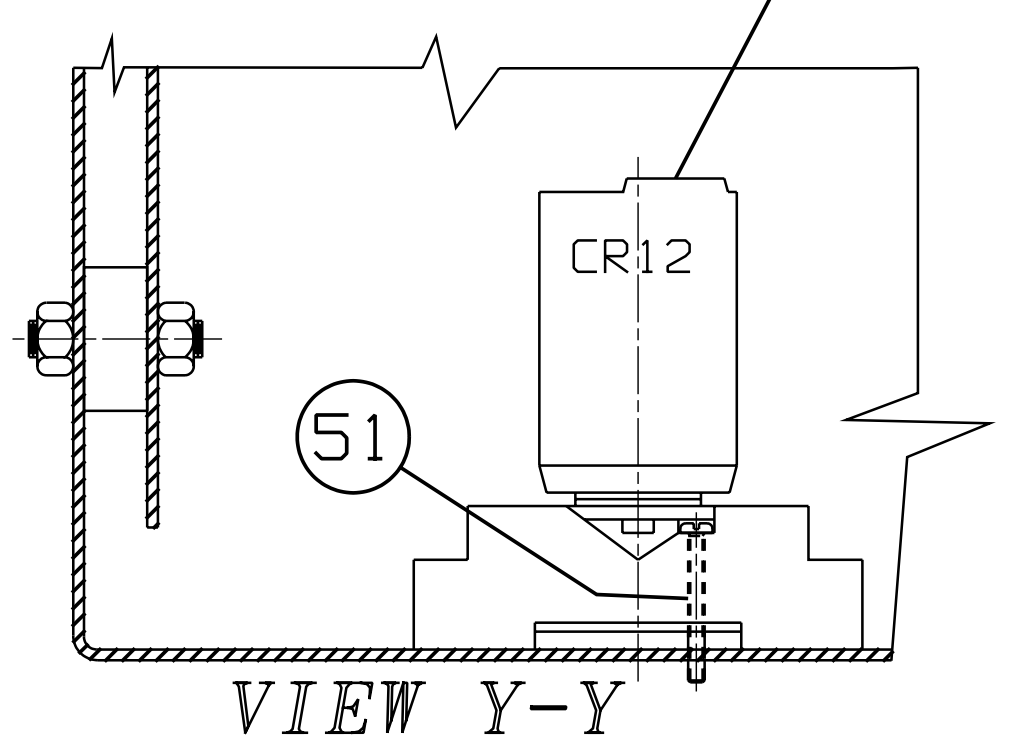
FORM WIRES IN BUNDLE. WIRES MUST NOT RUB WHEN COVER IS CLOSED.



- NOTE:**
- USE CABLE TIES, ITEM 89, AS REQUIRED.
 - USE WIRE MARKERS AS REQUIRED.
 - ALL WIRES SIZES AND CONNECTIONS TO BE PER WIRE CONNECTION LIST. (SHEETS 5 & 6 of 6).
 - SEE DRAWING 96680381 & 96680407 DWG FOR ELECTRICAL SCHEMATIC.



VIEW Z-Z



VIEW Y-Y

NO CHG THIS SHEET	MKS	03-13-08		54282
NO CHG THIS SHEET BEGIN # S/NB80290	MKS	10-20-03	JLE 06-01-04 WDS 06-01-04	NONE
NEW ISSUE	LDW	04-20-00	JLE 04-21-00 BMB 04-21-00	NONE

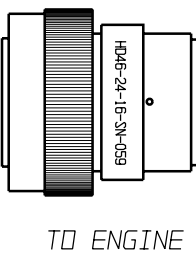
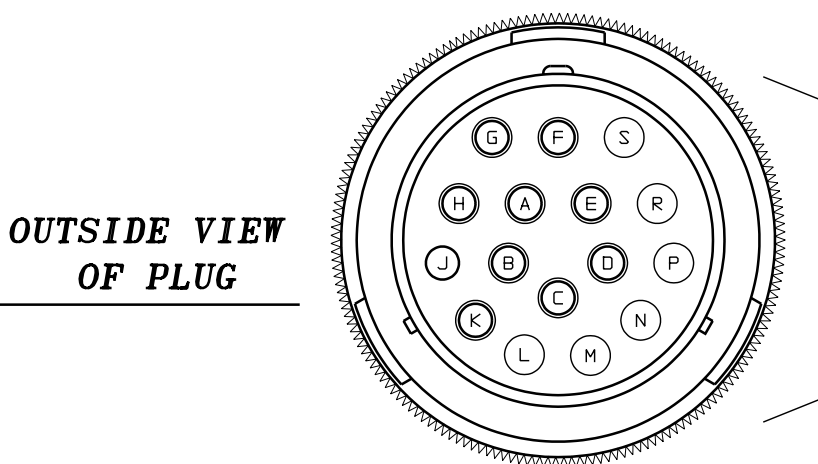
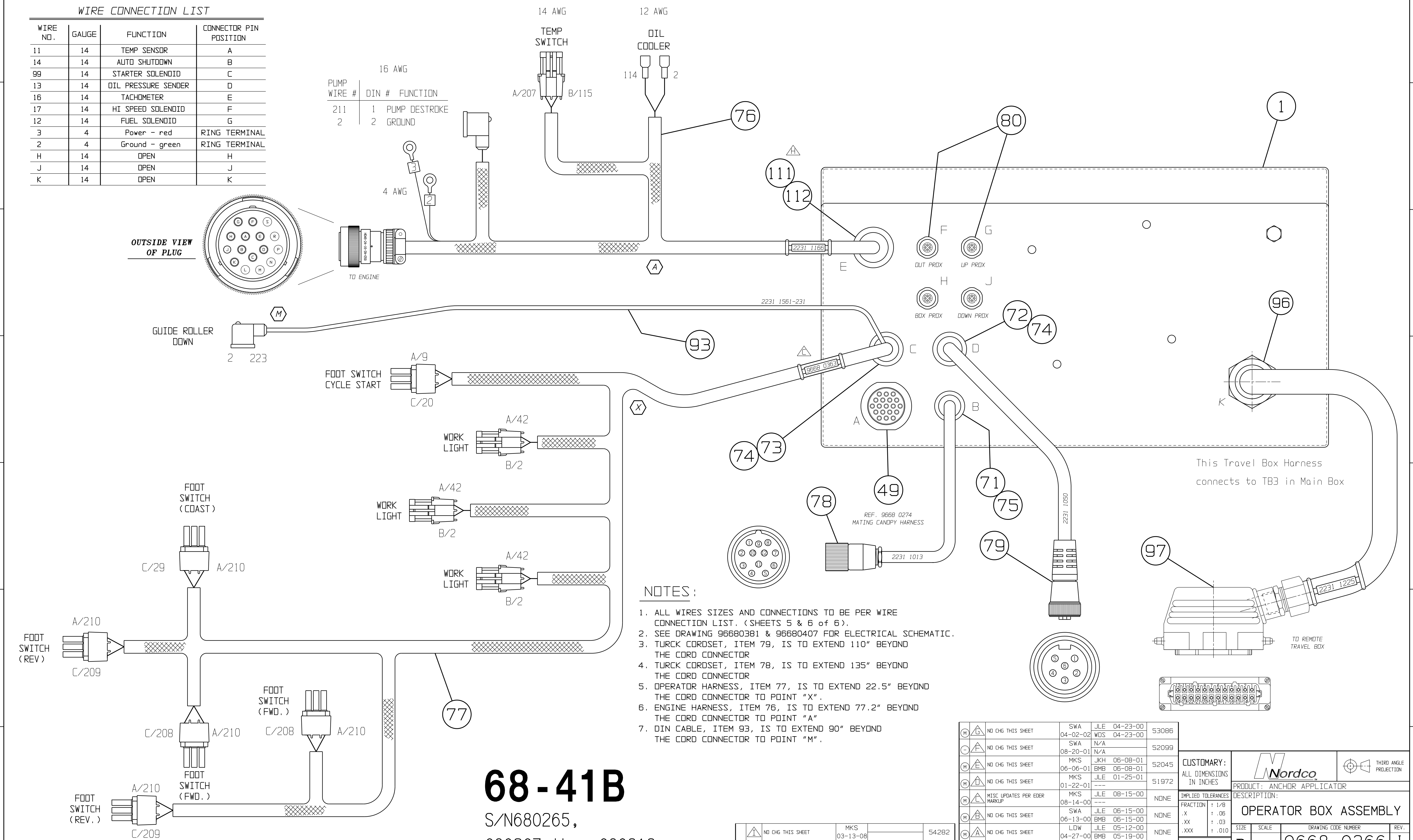
ITEM 8 REPLACED	SWA	JLE	04-23-00	53086
ITEMS 103 TO 110 ADDED	WDS	WDS	04-23-00	
NO CHG THIS SHEET SEE SHEETS 3 & 4	SWA	N/A	N/A	52099
ADD ITEM 102, #239 WIRES WERE #9, DEL 1 JUMPER. SEE LOCATION D-3, S/NB80281	MKS	JKH	06-08-01	52045
UPDATED SCHEM VIEW OF CR11, CR4, CR2, CR6 (# H-2), (860273)	MKS	JLE	01-25-01	51972
MISC UPDATES PER EDGAR HARKUP (S/NB80271-272)	MKS	JLE	08-15-00	NONE
NO CHG THIS SHEET SEE SHTS 4-6 (S/NB80270)	SWA	JLE	06-15-00	NONE
REMOVED WIRE #201 & ADDED WIRE #202 IN TB3	LDW	JLE	05-12-00	NONE
NEW ISSUE	LDW	JLE	04-21-00	NONE
BEGIN # S/NB80265, 267	LDW	BMB	04-21-00	NONE

CUSTOMARY: ALL DIMENSIONS IN INCHES	NORDCO		THIRD ANGLE PROJECTION
	PRODUCT: ANCHOR APPLICATOR		
IMPLIED TOLERANCES	DESCRIPTION: OPERATOR BOX ASSEMBLY		
FRACTION: 1/8 .XX: .06 .XXX: .03 .010	SIZE: D	SCALE: 1/2	DRAWING CODE NUMBER: 9668 0366
250 / MACHINE FINISH UNLESS OTHERWISE STATED	ASSEMBLY: -	DRAWING CODE NUMBER: 9668 0366	REV: I
PLANE ANGLES +/- 1°	ASSEMBLY: -	DRAWING CODE NUMBER: 9668 0366	SHEET 1/6

WIRE CONNECTION LIST

WIRE NO.	GAUGE	FUNCTION	CONNECTOR PIN POSITION
11	14	TEMP SENSOR	A
14	14	AUTO SHUTDOWN	B
99	14	STARTER SOLENOID	C
13	14	OIL PRESSURE SENDER	D
16	14	TACHOMETER	E
17	14	HI SPEED SOLENOID	F </td
12	14	FUEL SOLENOID	G
3	4	Power - red	RING TERMINAL
2	4	Ground - green	RING TERMINAL
H	14	OPEN	H
J	14	OPEN	J
K	14	OPEN	K

PUMP WIRE #	DIN #	FUNCTION
211	1	PUMP DESTROKE
2	2	GROUND



- NOTES:
1. ALL WIRES SIZES AND CONNECTIONS TO BE PER WIRE CONNECTION LIST. (SHEETS 5 & 6 of 6).
 2. SEE DRAWING 96680381 & 96680407 FOR ELECTRICAL SCHEMATIC.
 3. TURCK CORDSET, ITEM 79, IS TO EXTEND 110" BEYOND THE CORD CONNECTOR
 4. TURCK CORDSET, ITEM 78, IS TO EXTEND 135" BEYOND THE CORD CONNECTOR
 5. OPERATOR HARNESS, ITEM 77, IS TO EXTEND 22.5" BEYOND THE CORD CONNECTOR TO POINT "X".
 6. ENGINE HARNESS, ITEM 76, IS TO EXTEND 77.2" BEYOND THE CORD CONNECTOR TO POINT "A"
 7. DIN CABLE, ITEM 93, IS TO EXTEND 90" BEYOND THE CORD CONNECTOR TO POINT "M".

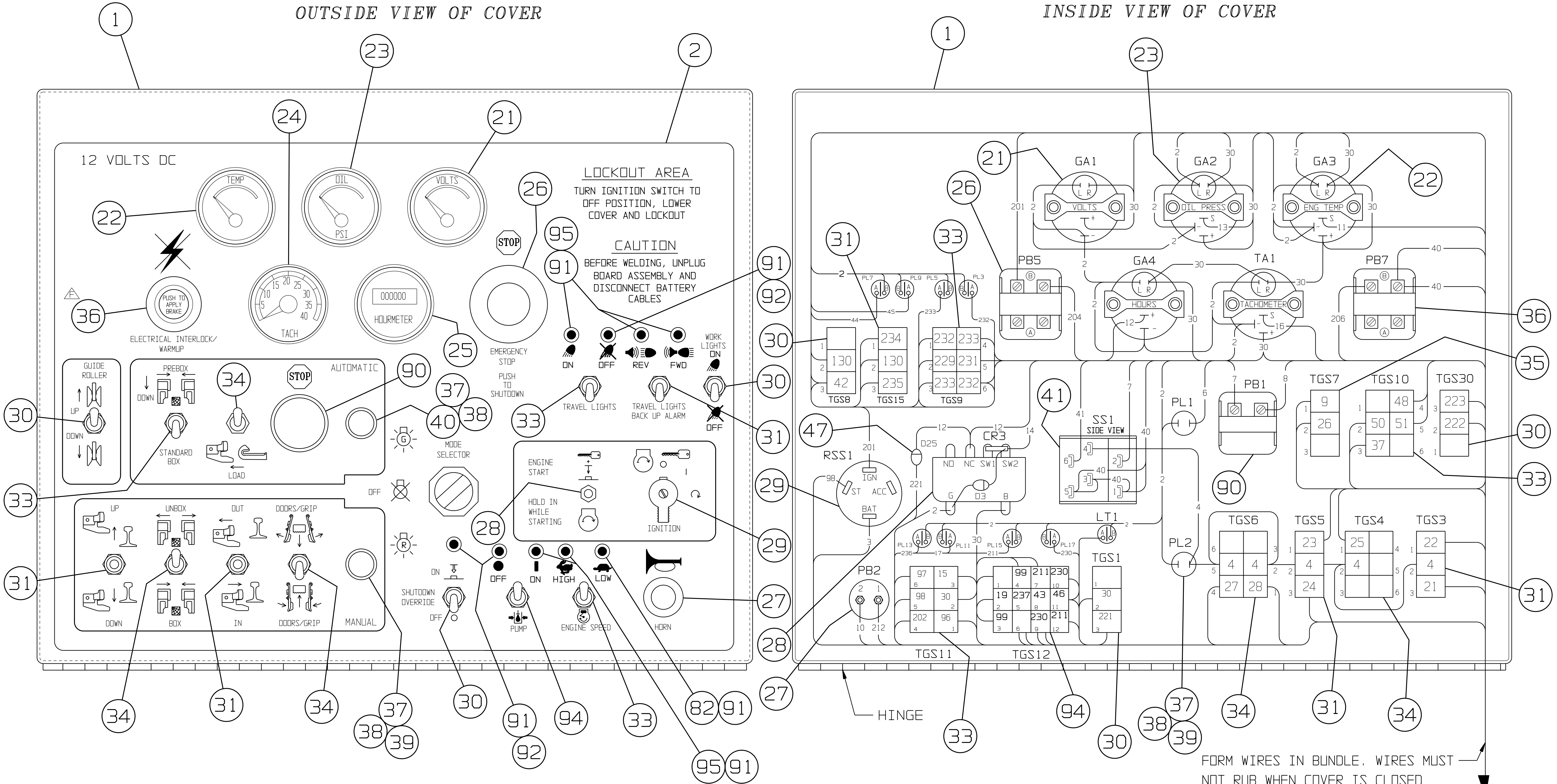
68-41B
 S/N680265,
 680267 thru 680313

REV	CHANGE	DATE	BY	DATE	BY	E.C.O. #
NO CHG THIS SHEET			MKS	03-13-08		54282
ITEM 111 WAS 73			MKS	10-20-03		NONE
ITEM 112 WAS 74			JLE	06-01-04		NONE
NEW ISSUE			LDW	04-21-00		NONE

NO CHG THIS SHEET	SWA 04-02-02	JLE 04-23-00	53086	CUSTOMARY: ALL DIMENSIONS IN INCHES		THIRD ANGLE PROJECTION
NO CHG THIS SHEET	SWA 08-20-01	N/A	52099			
NO CHG THIS SHEET	MKS 06-06-01	JKH 06-08-01	52045	IMPLIED TOLERANCES	PRODUCT: ANCHOR APPLICATOR	DESCRIPTION: OPERATOR BOX ASSEMBLY
NO CHG THIS SHEET	MKS 01-22-01	BMB 06-08-01	51972			
MISC UPDATES PER EDER MARKUP	MKS 08-14-00	JLE 08-15-00	NONE	FRACTION ± 1/8		SIZE SCALE DRAWING CODE NUMBER REV. D 1/2 9668 0366 I
NO CHG THIS SHEET	SWA 06-13-00	JLE 06-15-00	NONE	.XX ± .06		
NO CHG THIS SHEET	LDW 04-27-00	BMB 05-12-00	NONE	.XXX ± .010		
NO CHG THIS SHEET	LDW 04-20-00	JLE 04-21-00	NONE	250 / MACHINE FINISH UNLESS OTHERWISE STATED	FLANGE ANGLES ± 1°	ASSEMBLY: -

OUTSIDE VIEW OF COVER

INSIDE VIEW OF COVER



FORM WIRES IN BUNDLE. WIRES MUST NOT RUB WHEN COVER IS CLOSED

- NOTE:**
1. USE CABLE TIES, ITEM 89, AS REQUIRED.
 2. USE WIRE MARKERS AS REQUIRED.
 3. ALL WIRES SIZES AND CONNECTIONS TO BE PER WIRE CONNECTION LIST. (SHEETS 5 & 6 of 6).
 4. SEE DRAWING 96680381 & 96680407 FOR ELECTRICAL SCHEMATIC.

68-41B
 S/N680265,
 680267 thru 680313

NO CHG THIS SHEET	MKS 03-13-08	JLE 06-01-04	54282	NONE
NO CHG THIS SHEET	MKS 10-20-03	WDS 06-01-04	NONE	
NO CHG THIS SHEET	DATE:	DATE:	DATE:	E.C.O. #

NO CHG THIS SHEET	SWA 04-02-02	JLE 04-23-00	53086
ITEM 36 REVISED	SWA 08-20-01	N/A	52099
NO CHG THIS SHEET	MKS 06-06-01	JKH 06-08-01	52045
NO CHG THIS SHEET	MKS 01-22-01	BMB 06-08-01	51972
NO CHG THIS SHEET	MKS 08-14-00	JLE 08-15-00	NONE
NO CHG THIS SHEET SEE SHTS 4-6	SWA 06-13-00	JLE 06-15-00	NONE
SEE SHEET 4	LDW 04-27-00	BMB 05-19-00	NONE
NEW ISSUE	LDW 04-20-00	JLE 04-21-00	NONE
		BMB 04-21-00	

CUSTOMARY: ALL DIMENSIONS IN INCHES			THIRD ANGLE PROJECTION
	PRODUCT: ANCHOR APPLICATOR DESCRIPTION: OPERATOR BOX ASSEMBLY		
IMPLIED TOLERANCES	FRACTION ± 1/8	SIZE	SCALE
	.XX ± .06	D	1/2
	.XXX ± .03		
	.XXX ± .010		
250 / MACHINE FINISH UNLESS OTHERWISE STATED	FLANGE ANGLES ± 1°	ASSEMBLY: -	DRAWING CODE NUMBER
			9668 0366
			REV. I
			SHEET 3/6

NO. 9668 0366 SHEET NO. 4/6 ALL INFORMATION CONTAINED ON THIS DRAWING IS CONSIDERED TO BE BOTH CONFIDENTIAL AND PROPRIETARY BY NORDCO INC. NO USE OR REPRODUCTION THEREOF MAY BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF NORDCO INC.

LIST OF MATERIALS

ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	PART NAME	ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	PART NAME	ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	PART NAME
1	2029 5037	1	OPERATOR CONSOLE	41	5126 802	1	SWITCH, ALLEN BRADLEY #AB800TJ5 KB7-ADJX SS2	81	2837 349	2	SCREW, RD HD MACH #6-32 x 3/4 LG
2	5640 6135	1	PLAQUE	42	5128 938	3	CIRC. BREAKER, 25 AMP ETA 1170-02-25A RESETTABLE	82	5191 902	1	LAMP DIALIGHT #507-4960-3733-500 AMBER PL13
3	5195 896	1	AUTO/MANUAL POWER RELAY, P&B #KRPA-14DG 12V CR1	43	5128 937	4	CIRC. BREAKER, 20 AMP ETA 1170-02-20A RESETTABLE	83	5164 307	5	TERMINAL RING VACO #51438 DR EQUIV.
4	5155 180	1	RELAY SOCKET, P&B #27E123	44	5128 936	-	CIRC. BREAKER, 15 AMP ETA 1170-02-15A RESETTABLE	84	5158 438	16	TERMINAL, RELAY P&B 26A1348C 10-12 AWG
5	2837 367	2	SCREW, RD HD MACH #6-32 X 1 1/4	45	5128 935	1	CIRC. BREAKER, 10 AMP ETA 1170-02-10A RESETTABLE	85	5164 246	AR	TERMINAL RING VACO #61206 DR EQUIV.
6	3048 028	2	NUT, HEX #6-32	46	5155 210	4	RELAY SOCKET, P&B #VCF4-1002	86	5164 299	AR	TERMINAL RING VACO #61308 DR EQUIV.
7	3064 452	2	LOCKWASHER, #6	47	2968 0018	8	DIODE #IN5404 D1,4,6,11,20,21,22,25	87	5164 304	AR	TERMINAL RING VACO #61406 DR EQUIV.
8	5311 0007	2	PANEL, FUSE ETA #12-J20-60 CBP 1,2	48	5195 982	1	RELAY, P&B #VF4-45F11 CR 6	88	5164 405	AR	TERMINAL RING VACO #61305 DR EQUIV.
9	2837 643	4	SCREW, RD HD MACH #10-24 X 1"	49	5120 745	1	CONNECTOR, CANOPY DEUTSCH #HD44-24-19PN	89	5170 240	AR	CABLE TIE
10	3048 040	4	NUT, HEX #10-24	50	7648 5225	1	STRIP, TERMINAL CINCH #25-140 TB3	90	5126 633	1	SWITCH, ALLEN BRADLEY #AB800T D6 D2 PB1
11	3064 458	4	LOCKWASHER, #10	51	2837 7499	2	SCREW, RD HD MACH #8-32 X 1	91	5190 950	9	LAMP HOLDER DIALIGHT #508-7538-504
12	6123 1200	1	MAIN IGNITION RELAY, COLE HERSEE #24059 CR10	52	7648 3006	1	STRIP, TERMINAL CINCH #12-140 TB2	92	5191 901	3	LAMP DIALIGHT #507-4760-3731-500 RED LT1/PL5/PL17
13	2774 266	2	CAPSCREW, HX HD 1/4-20 X 5/8	53	2837 361	4	SCREW, RD.HD. MACHINE #6-32 x 1.0" LG.	93	2231 1561-216	1	DIN CABLE 4.0 METERS LONG
14	3001 013	2	NUT, HEX 1/4-20	54	3064 452	8	LOCKWASHER, #6	94	5125 585	1	SWITCH, TOGGLE CH #8502-K4 TGS12 ON/ON 4PDT
15	3060 464	10	WASHER, SAE 1/4	55	3048 028	8	NUT, HEX #6-32	95	5190 900	5	LAMP DIALIGHT #507-4860-3732-500 GRN PL3/7/9/11/15
16	3064 464	10	LOCKWASHER, 1/4	56	5752 3430	1	CONSOLE PANEL	96	5103 816	1	CONNECTOR, CORD CROUSE HINES #CGB298
17	5195 980	3	RELAY, P&B #VF4-41F11 CR 2,4,11	57	5027 0450	4	SHOCK MOUNT, UNIROYAL #300A DR EQUIV.	97	2231 1225	1	ASSEMBLY, TRAVEL BOX HARNESS
18	2837 619	4	SCREW, MACH RD HD #10-24 X 1/2	58	9668 0218	1	BOARD AND PLUG ASSEMBLY	98	5196 104	1	RELAY, LATCHING DPDT 12V 11 PIN RELECO #C3-R20/12VDC CR12
19	3048 040	4	NUT, HEX #10-24	59	2837 481	8	SCREW, RD HD MACH #8-32 X 5/8	99	5155 280	1	SOCKET, RELAY 11 PIN RELECO #S3-S
20	3064 458	4	LOCKWASHER, #10	60	3066 565	10	LOCKWASHER, #8	100	7506 218	1	CLIP, RELAY HOLD-DOWN RELECO #S3-C
21	7078 082	1	VOLTMETER DiPRICOL# C301351 GA1	61	1864 0053	4	SPACER H.H. SMITH #8407	101	7648 5225	1	STRIP, TERMINAL BEAU #77024 24 POINT TB-3
22	7055 757	1	GAUGE, TEMPERATURE DiPRICOL# 302636 GA3	62	2801 217	4	SCREW, FILLISTER HD MACH #4-40 X 1/2	102	5018 0016	1	FILTER, POWER SUPPLY PROX SWITCH
23	7022 514	1	GAUGE, OIL PRESSURE DiPRICOL# C302634 GA2	63	2837 217	4	SCREW, RD HD MACH #4-40 X 1/2	103	8194 1104	2	RAIL, FUSE PANEL MTG. SQUARE D #MH304 4.0 LG
24	7085 940	1	TACHOMETER, VDD #333-515 TA1	64	3064 446	8	LOCKWASHER, #4	104	5158 448	2	CLAMP, END SQUARE D #9080MH10 DR EQUIV.
25	7088 107	1	HOURMETER DiPRICOL# 400862 GA4	65	5120 755	1	CONNECTOR ELCO #8016-038-000-707	105	5104 995	2	BAR, FUSE BUSS ETA #Y30356311-13A
26	5126 636	1	SWITCH, ALLEN BRADLEY #AB800T-FXJ6A1 PB5	66	5166 526	20	CONTACT, CRIMPED ELCO #60-8017-0313-339	106	3140 3662	2	INSULATOR, BUSS BAR ETA #Y30382410
27	5125 960	1	BUTTON, HORN COLE HERSEE #9216-03 PB 2	67	2968 0012	1	DIODE #1N6284	107	7648 1960	1	STRIP, TERMINAL CINCH #7-150
28	5126 098	1	SWITCH, MAGNETIC MURPHY #518APH CR3	68	5159 050	10	JUMPER CINCH #140J1 DR EQUIV.	108	5159 052	6	JUMPER VERNITRONIC #2837 DR EQUIV.
29	5126 082	1	SWITCH, IGNITION COLE HERSEE# 95612 RSS1	69	3027 021	2	HEX JAM NUT, 3/8-16	109	5166 425	2	WELD STUD DR EQUIV. #10-24 x .5 LG
30	5125 593	3	SWITCH, TOGGLE CH #8500K9 TGS 1,8,30, ON-OFF SPST	70	3064 470	1	LOCKWASHER, 3/8	110	5166 425	20	TERMINAL, RING TERMINAL SUPPLY #D-650-10 DR EQUIV.
31	5125 590	3	SWITCH, TOGGLE CH #8500K2 TGS 3,5,15 (ON) OFF (ON) SPDT	71	5103 814	1	CONNECTOR, CORD CROUSE HINES #CGB-194	111	5103 830	1	CONNECTOR, CORD CROUSE HINES #CGB-397
32				72	5103 824	1	CONNECTOR, CORD CROUSE HINES #CGB-295	112	5104 018	1	LOCKNUT, CONDUIT 1" NPT
33	5125 579	3	SWITCH, TOGGLE CH #8501K4 TGS9,10,11 ON-ON DPDT	73	5103 818	1	CONNECTOR, CORD CROUSE HINES #CGB-297				
34	5125 594	2	SWITCH, TOGGLE CH #8501K5 TGS 4,6, (ON) ON DPDT	74	5104 016	2	LOCKNUT, CONDUIT 3/4 NPT				
35	5125 592	1	SWITCH, TOGGLE CH #8500K11 TGS 7, (ON) OFF SPST	75	5104 014	1	LOCKNUT, CONDUIT 1/2 NPT				
36	5126 642	1	SWITCH, PUSH BUTTON ENGRAVED YELLOW BUTTON	76	2231 1166	1	HARNESS, ENGINE w/Deutsch Connector				
37	5190 486	2	LIGHT, DIALCO #125-1310-11-103	77	9668 0363	1	HARNESS, OPERATOR				
38	5150 184	2	LAMP, GE #1815	78	2231 1013	1	CORDSET TURCK #CKR 12-10-5				
39	5190 821	1	LENS, DIALCO #125-1131-403 RED PL2	79	2231 1050	1	CORDSET TURCK #RKM 66-4M				
40	5190 820	1	LENS, DIALCO #125-1132-403 GREEN PL1	80	5120 799	4	RECEPTACLE (with leads) TURCK #FK 4.4-0.5/18.25				

NOTE:
SEE DRAWING 96680381 & 96680407 FOR ELECTRICAL SCHEMATIC.

68-41B
S/N680265,
680267 thru 680313

M	ITEMS 42-45 CHANGED ITEM 8 WAS 5311 0805 ITEMS 103-110 ADDED	SWA 04-02-02	JLE 04-23-00	53086
C	ITEM 36 WAS 5126 640	SWA 08-20-01	N/A	52099
M	#8 WAS 46061, #42-45 WERE "WAYTEK" #42 WAS 30A, #8B WAS QTY 6, ADD ITEM 102	MKS 06-06-01	JKH 06-08-01 BMB 06-08-01	52045
M	ITEM 43 WAS QTY 2 DEL ITEM 44, ADD ITEM 82, ITEM 95 WAS QTY 6	MKS 01-22-01	JLE 01-25-01	51972
M	MISC UPDATES PER EDER MARKUP	MKS 08-14-00	JLE 08-15-00	NONE
M	ITEM 84 WAS 5158 437-P&B 26A1350A	SWA 06-13-00	JLE 06-15-00 BMB 06-15-00	NONE
M	REMOVED ITEM 32 (5125 594)	LDW 04-27-00	JLE 05-12-00 BMB 05-19-00	NONE
M	NEW ISSUE	LDW 04-20-00	JLE 04-21-00 BMB 04-21-00	NONE

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: ANCHOR APPLICATOR			
DESCRIPTION:		OPERATOR BOX ASSEMBLY			
FRACTION	± 1/8	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .06	D	1/2	9668 0366	I
.XXX	± .03				
	± .010				
250/MACHINE FINISH UNLESS OTHERWISE STATED		FLANGE ANGLES ±1°		ASSEMBLY: -	
				SHEET 4/6	

M	#80 WAS 5120717 IN ERROR. DESCRIPTION WAS CORRECT.	MKS 03-13-08		54282	
M	#73 WAS QTY 2, NEW #111. #74 WAS QTY 3, NEW #112. #93 WAS 22311560 DBS. PART	MKS 10-20-03	JLE 06-01-04	NONE	
MF	REV	CHANGE	DRAWN BY: DATE:	CHECKED BY: DATE:	E.C.O. #

CONNECTOR TERMINATION LIST

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
ENGINE HARNESS	E		
4 AWG GREEN	E-RING	STUD 1	2
12 AWG BLACK	E	STUD 1	2
4 AWG RED	E-RING	CR10-3	3
16 AWG BLACK	E	TB1-2	2
14 AWG BLACK	E-A	GA3-S	11
14 AWG BLACK	E-G	CR3eNC	12
14 AWG BLACK	E-D	GA2-S	13
14 AWG BLACK	E-B	CR3eSW2	14
14 AWG BLACK	E-E	TA1-S	16
14 AWG BLACK	E-F	TB3-17	17
14 AWG BLACK	E-C	TGS12e3	99
12 AWG BLACK	E	CR4e30	114
14 AWG BLACK	E	CR4e85	115
14 AWG BLACK	E	CB6-207	207
16 AWG BLACK	E	TB3-211	211

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
OPERATOR HARNESS	C		
14 AWG BLACK	C	TB4-2	2
14 AWG BLACK	C	TB1-9	9
14 AWG BLACK	C	TB1-20	20
14 AWG BLACK	C	TGS8e3	42
14 AWG BLACK	C	TB2-208	208
14 AWG BLACK	C	TB2-209	209
14 AWG BLACK	C	CR11e30	210
14 AWG BLACK	C	TB2-29	29
ROLLER VALVE DIN CABLE	C		
	2	TB2-2	2
	1	TGS30e3	223

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
"OUT" PROX SWITCH	F		
22 AWG BLUE	F3	TB4-2	2 (GND)
22 AWG BROWN	F1	TB1-239	239
22 AWG BLACK	F4	TB1-47	47
22 AWG WHITE	F2		NOT USED

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
"UP" PROX SWITCH	G		
22 AWG BLUE	G3	TB4-2	2 (GND)
22 AWG BROWN	G1	TB1-239	239
22 AWG BLACK	G4	TB1-36	36
22 AWG WHITE	G2		NOT USED

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
"BOX" PROX SWITCH	H		
22 AWG BLUE	H3	TB4-2	2 (GND)
22 AWG BROWN	H1	TB1-239	239
22 AWG WHITE	H2	TB1-48	48
22 AWG BLACK	H4		NOT USED

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
"DOWN" PROX SWITCH	J		
22 AWG BLUE	J3	TB4-2	2 (GND)
22 AWG BROWN	J1	TB1-239	239
22 AWG WHITE	J2	TB1-37	37
22 AWG BLACK	J4		NOT USED

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
PWR SUPP PROX FILTER	M		
GREEN WIRE		TB1-2	2 (GND)
BLACK WIRE		TB1-6	6
RED WIRE		TB1-239	239

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
4 PORT TURCK BOX	D		
18 AWG GREEN	D3	TB2-2	2
18 AWG BLUE	D6	TB1-25	25
18 AWG BLACK	D5	TB1-27	27
18 AWG RED	D2	TB1-28	28
18 AWG ORANGE	D4	TB2-29	29
	D1	NOT USED	

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
8 PORT TURCK BOX	B		
18 AWG GREEN	B7	TB2-2	2
18 AWG WHITE	B5	TB1-9	9
18 AWG BROWN	B10	TB1-21	21
18 AWG ORANGE	B9	TB1-22	22
18 AWG BLUE	B2	TB1-23	23
18 AWG BLACK	B4	TB1-24	24
18 AWG RED	B6	TB1-38	38
18 AWG VIOLET	B1	TB1-49	49
18 AWG YELLOW	B8	TB2-208	208
18 AWG GREY	B3	TB2-209	209
	B11	NOT USED	

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
TRAVEL BOX HARNESS	K		
14 AWG	K	STUD 1	2
14 AWG	K1	TB3-10	10
14 AWG	K2	TB3-15	15
14 AWG	K3	TB3-17	17
14 AWG	K4	TB3-19	19
14 AWG	K7	TB3-43	43
14 AWG	K8	TB3-44	44
14 AWG	K9	TB3-45	45
14 AWG	K10	TB3-46	46
14 AWG	K11	TB3-96	96
14 AWG	K12	TB3-97	97
14 AWG	K15	TB3-205	205
14 AWG	K13	TB3-202	202
14 AWG	K14	TB3-204	204
14 AWG	K16	TB3-211	211
14 AWG	K17	TB3-229	229
14 AWG	K18	TB3-230	230
14 AWG	K19	TB3-231	231
14 AWG	K20	TB3-232	232
14 AWG	K21	TB3-233	233
14 AWG	K22	TB3-234	234
14 AWG	K23	TB3-235	235
14 AWG	K24	TB3-236	236
14 AWG	K5	TB3-237	237
14 AWG	K6	TB3-238	238

DESCRIPTION	END 1 LOCATION	END 2 LOCATION	WIRE #
CANDOPY CONNECTOR	A		
12 AWG BLACK	A10	TB4-2	2
12 AWG BLACK	A14	TB4-2	2
12 AWG BLACK	A16	CR2e30	39
12 AWG BLACK	A12	CR12e8	44
12 AWG BLACK	A18	CR12e9	45
16 AWG BLACK	A6	CB4-130	130
16 AWG BLACK	A1	CR6e87A	213
16 AWG BLACK	A7	CR12e1	214

NOTE:
 1. "e" SYMBOL IN WIRE LIST INDICATES CONNECTION POSITION ON THE COMPONENT NOT WIRE NUMBER. (EX. CR4e86; N1eAA)
 2. SEE DRAWING 96680381 & 96680407 FOR ELECTRICAL SCHEMATIC.

68-41B

S/N680265,
 680267 thru 680313

NO CHG THIS SHEET	MKS 03-13-08		54282
NO CHG THIS SHEET	MKS 10-20-03	JLE 06-01-04	NONE
WF REV	CHANGE	DRAWN BY: DATE:	CHECKED BY: DATE:

TABLE 2: TB4-2 WAS CBP1-STUD, TABLES 3-7: TB4-2 WAS CBP1-2	SWA 04-02-02	JLE 04-23-00	53086
NO CHG THIS SHEET SEE SHEETS 3 & 4	SWA 08-20-01	WDS 04-23-00	52099
ADD "PWR...FILTER", OTHER PROX WIRES 239 WERE 9, CANDOPY "AB" WAS 212	MKS 06-06-01	JKH 06-08-01	52045
TRVL BOX HARNESS: WIRE 238 WAS 130	MKS 01-22-01	BMB 06-08-01	51972
MISC UPDATES PER EDER MARKUP	MKS 08-14-00	JLE 01-25-01	---
OPERATOR HARNESS - WIRE #10, 204, 205 & 212 REMOVED	SWA 06-13-00	JLE 08-15-00	NONE
NO CHGS THIS SHEET SEE SHEET 4	LDW 04-27-00	---	NONE
NEW ISSUE	WDS 04-20-00	SWA 06-15-00	NONE
		BMB 06-15-00	NONE
		JLE 05-12-00	NONE
		BMB 05-19-00	NONE
		JLE 04-21-00	NONE
		BMB 04-21-00	NONE

CUSTOMARY: ALL DIMENSIONS IN INCHES			
	PRODUCT: ANCHOR APPLICATOR		
IMPLIED TOLERANCES: FRACTION : 1/8 .XX : .06 .XXX : .03 .010 : .010		DESCRIPTION: <h2>OPERATOR BOX ASSEMBLY</h2>	
SIZE: D 1/2	SCALE: 1/2	DRAWING CODE NUMBER: 9668 0366	REV: I
PLANE ANGLES +/- 1°		ASSEMBLY: -	SHEET 5/6

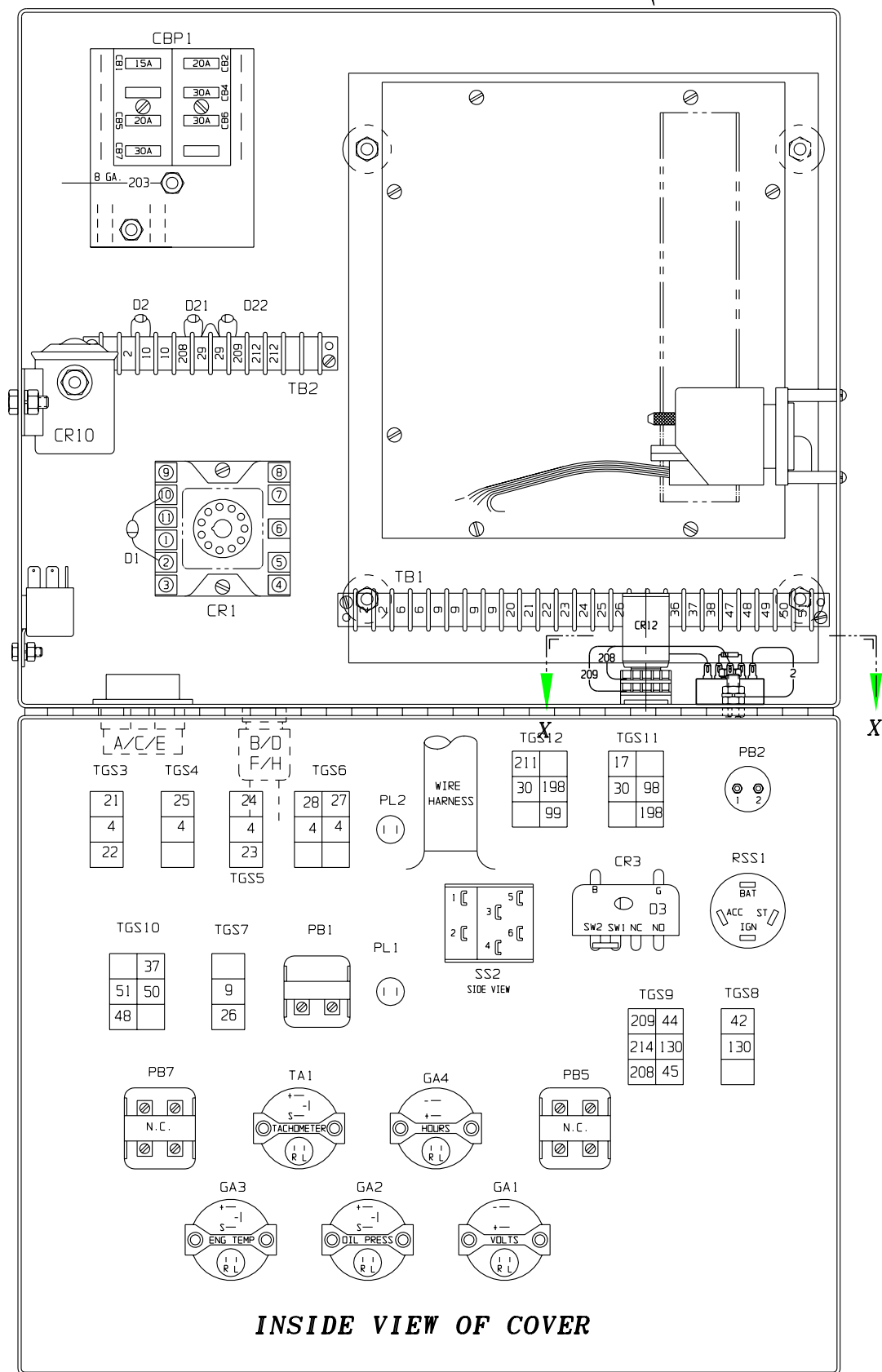
NO. 9668 0374

SHEET NO. 1/1

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REFERENCE:
OPERATOR BOX ASSEMBLY DWG. NO. 9668 0366
ELECTRICAL SCHEMATIC DWG. NO. 9668 0367

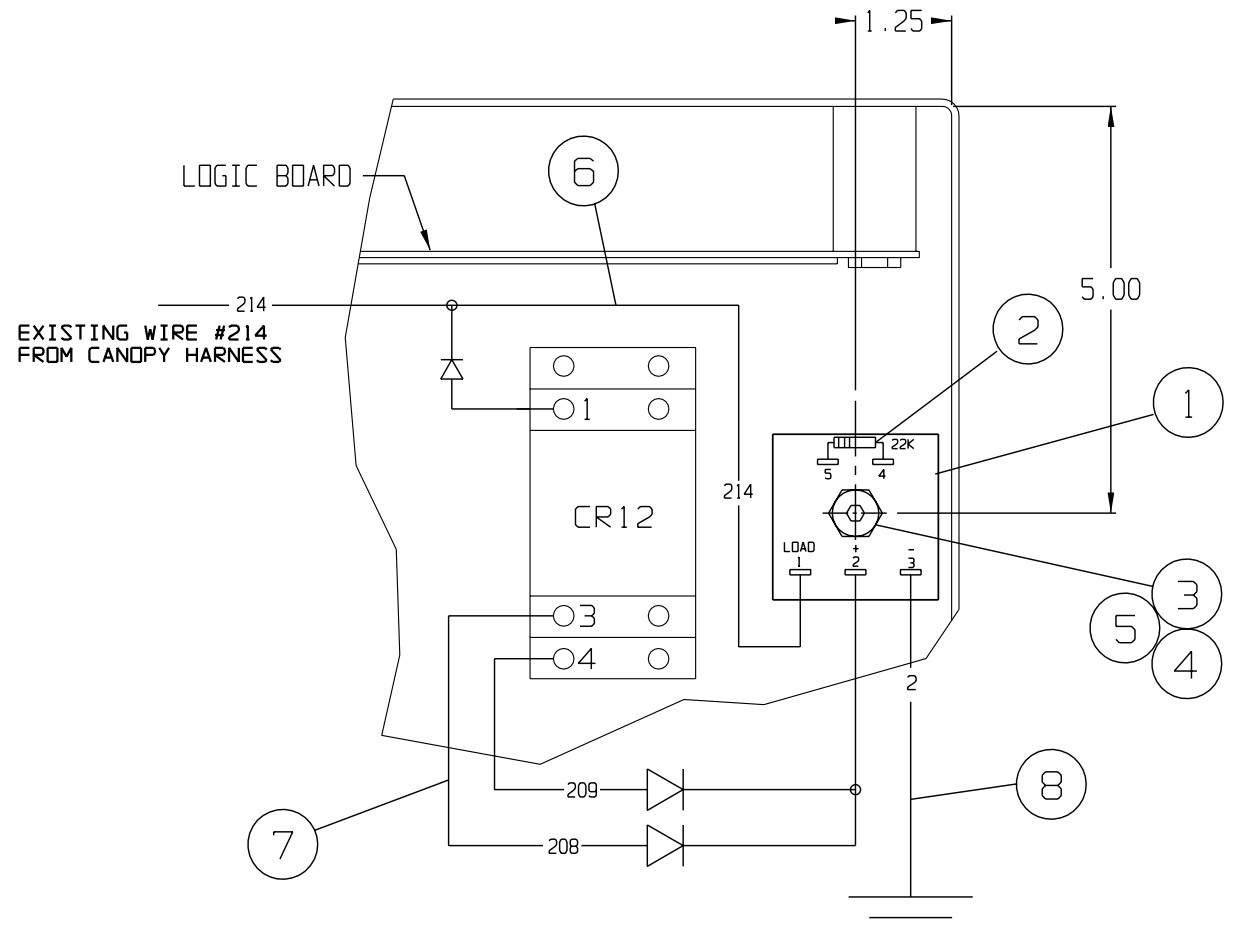
**INSIDE VIEW OF CONSOLE
W/ COVER DOWN**



INSIDE VIEW OF COVER

LIST OF MATERIALS

ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG SIZE	PART NAME
1	8001 0007	1		TIMER, SOLID STATE 2-180 SEC
2	6120 0061	1		RESISTOR, 22K OHM 1/2 WATT
3	2782 2041	1		CAPSCREW, SC #10-24 X 1.25 LG
4	3060 458	1		WASHER, SAE 3/16
5	3042 011	1		LOCKNUT, HX #10-24
6	8712 0092	1		ASSEMBLY, TIMER ALARM WIRE
7	8712 0090	1		ASSEMBLY, TIMER TRIGGER WIRE
8	8712 0091	1		ASSEMBLY, TIMER GROUND WIRE



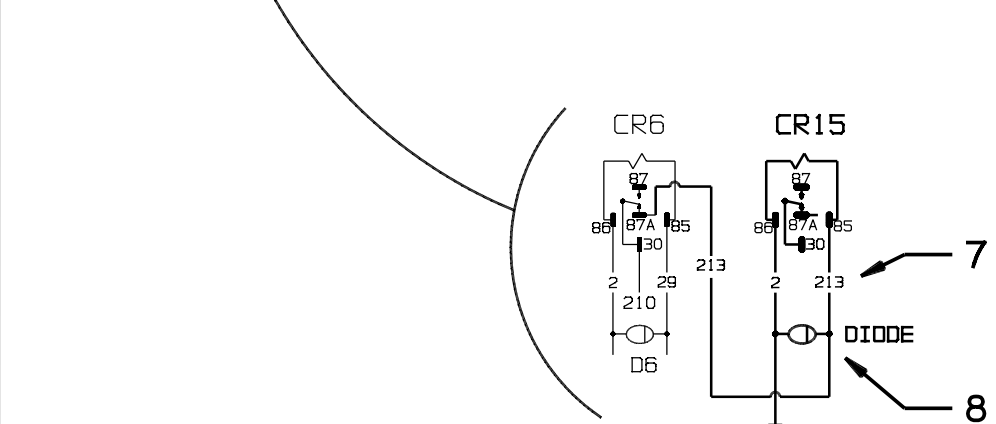
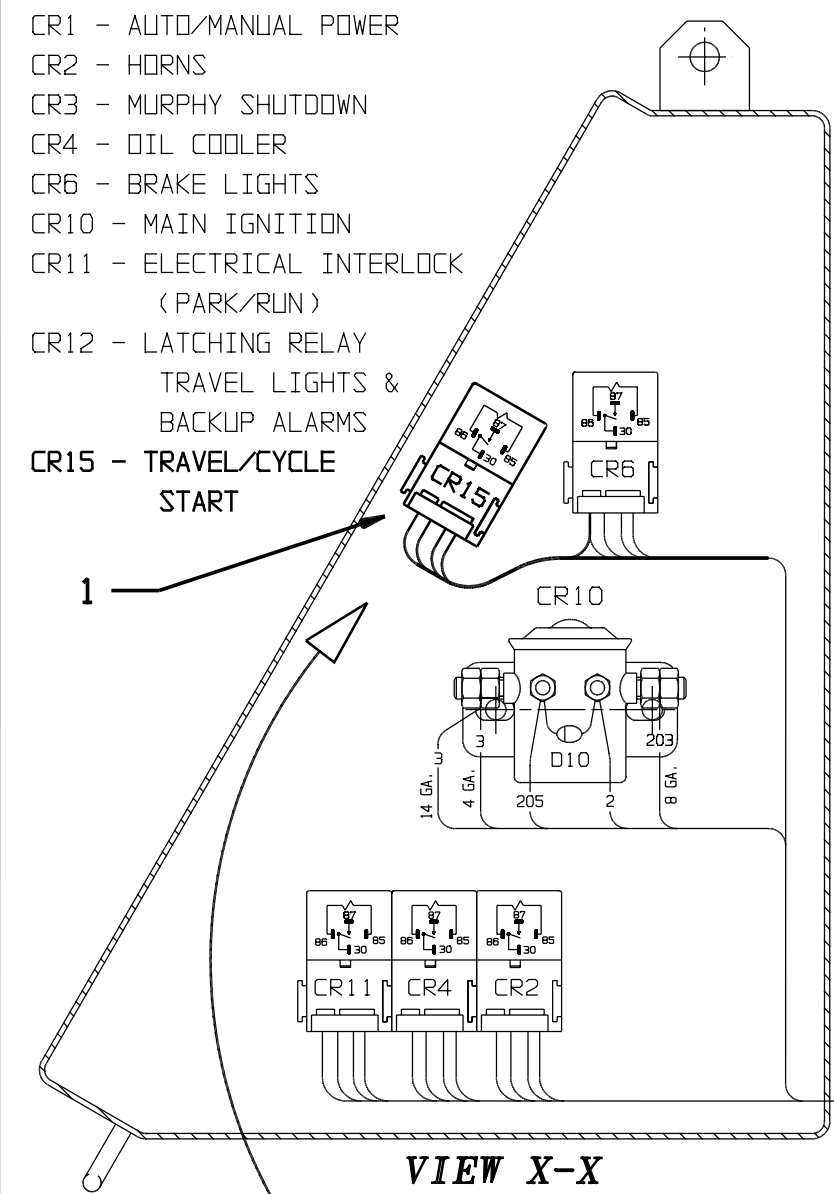
**VIEW X-X
NTS**

- NOTES:
1. DISCONNECT EXISTING #214 WIRE FROM CR12.
 2. INSTALL TIMER ALARM WIRE ASS'Y, CONNECTING TO CR12@1 AND TIMER MODULE LOAD TERMINAL.
 3. CUT EXISTING WIRE 214 AND CRIMP INTO BUTT SPLICE OF TIMER WIRE ASS'Y.
 4. INSTALL TIMER TRIGGER WIRE ASS'Y, CONNECTING TO CR12@3 & 4, AND PLUS TERMINAL ON TIMER MODULE.
 5. INSTALL TIMER GROUND WIRE ASS'Y, CONNECTING TO MINUS TERMINAL ON TIMER MODULE AND GROUND STUD.
 6. ALL OTHER EXISTING WIRES REMAIN IN PLACE.

(REF. 9668 0263 DWG)

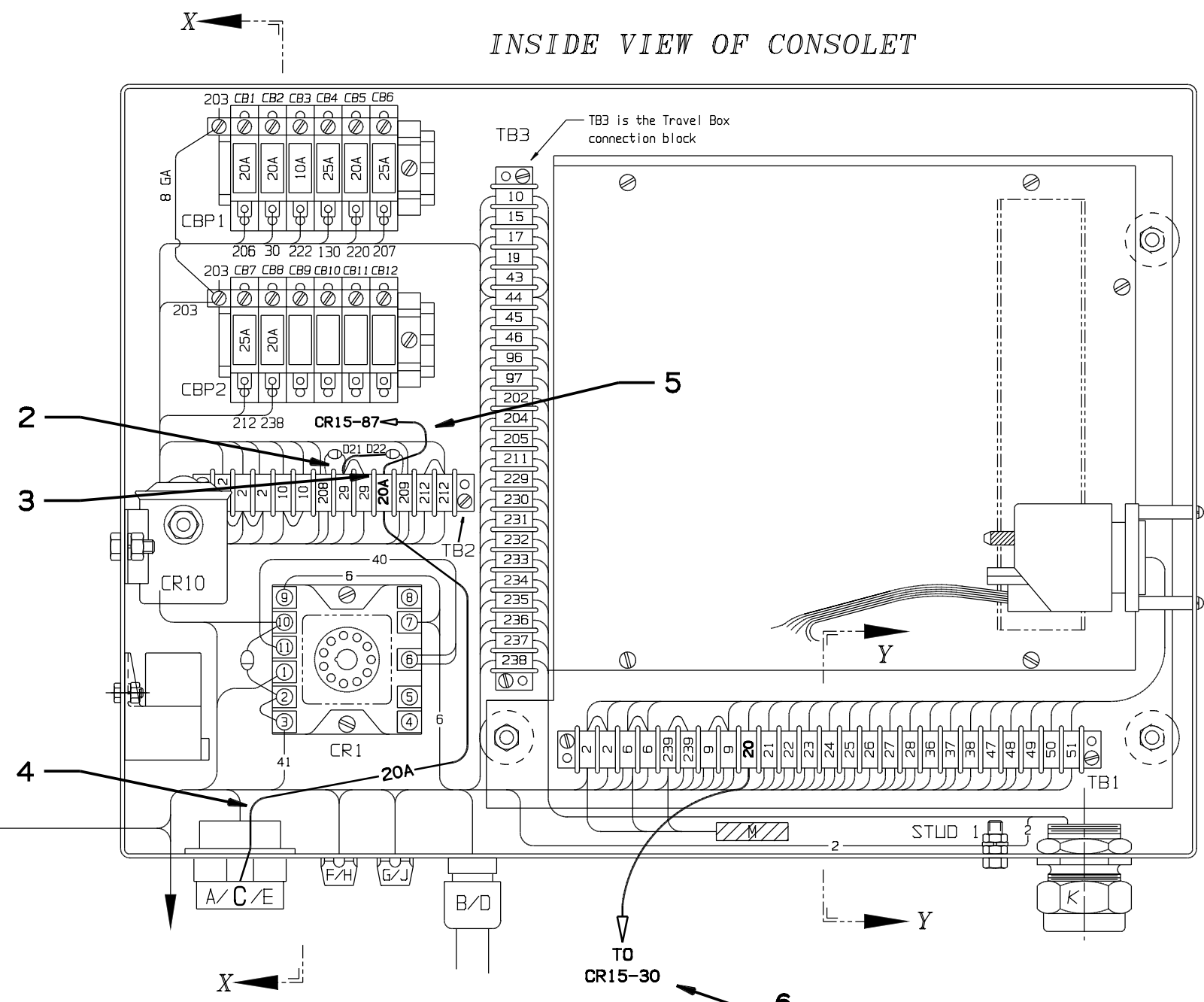
△	CHANGED ITEM 6 AND NOTES	LDW	4-24-00	
△	NEW ISSUE	LDW	4-24-00	NONE
MF	REV	CHANGE	BY: DATE:	ENG. ORDER #

CUSTOMARY: ALL DIMENSIONS IN INCHES	 NORDCO -NORDBERG Equipment	
	DRAWN: LDW DATE: 4-24-00	CHECKED: APPROVED:
IMPLIED TOLERANCES Finished Dimensions	PRODUCT: ANCHOR APPLICATOR "E" DESCRIPTION: TRAVEL ALARM (FOR USE WITH COAST SWITCH)	
DECIMAL INCH FRACTION : 1/8 .X : 06 .XX : 03 .XXX : 010	SIZE	SCALE
250 MACHINE FINISH UNLESS OTHERWISE STATED	DRAWING CODE NUMBER	
PLANE ANGLES : ONE DEGREE	REV.	
	ASSEMBLY: 9668 0373 SHEET 1 OF 1	

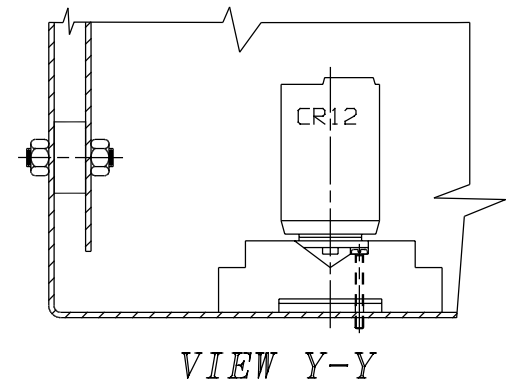


- PARTS REQUIRED:**
- > (1) Relay - 5195982
 - > (1) Relay Socket - 5155210
 - > (1) Diode - 29680018
 - > (1) #10 x 1/2" screw, lockwasher & nut
 - > (4) Relay terminals, crimp-on - 5158438
 - > (4) Ring terminals #6 stud

INSIDE VIEW OF CONSOLELET

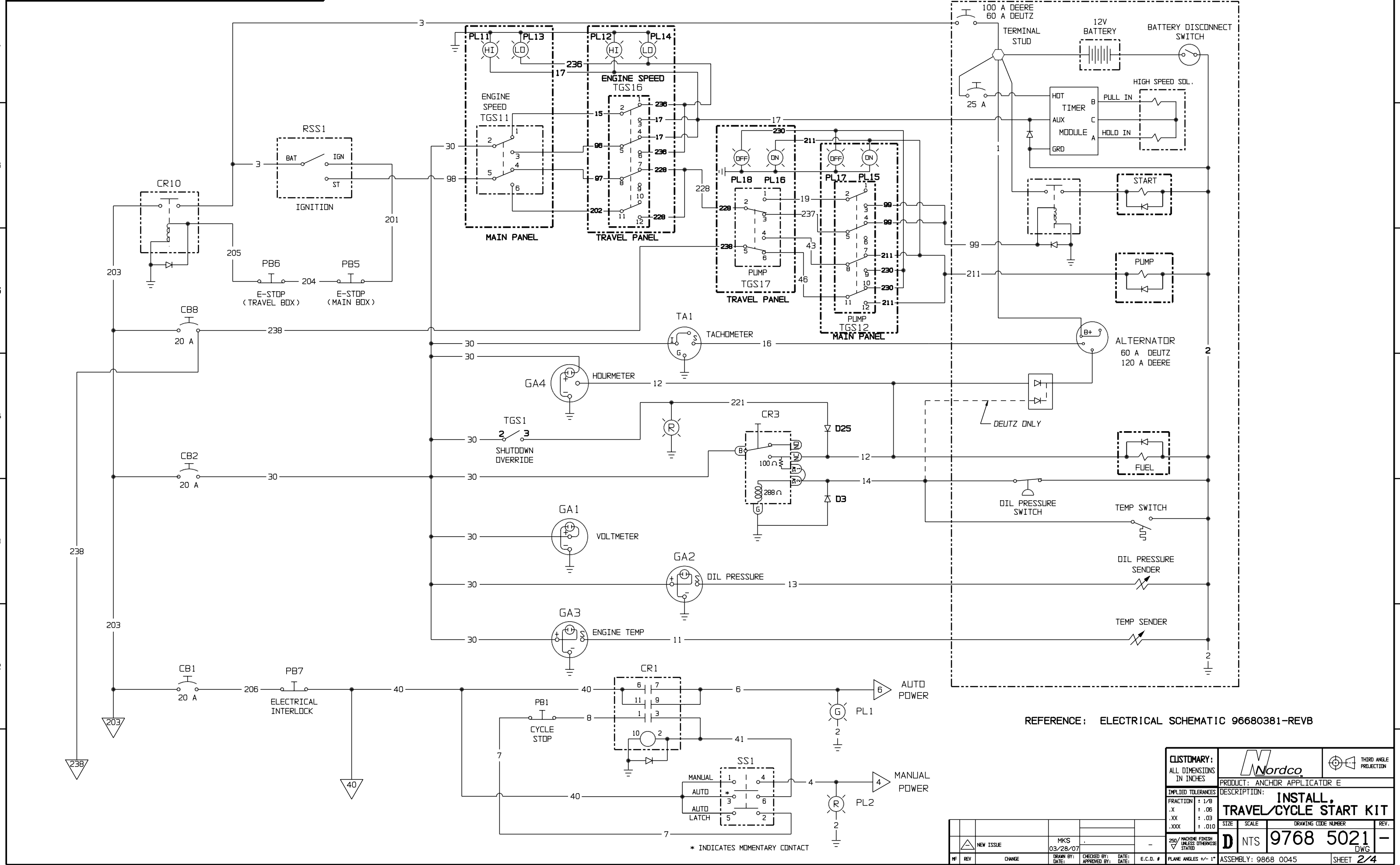


- INSTRUCTIONS:**
1. Install CR15 into LH side of logic box.
 2. Move wire 29 w/D22 @ TB2 to TB2-29 w/D21.
 3. Remove jumper where wire 29 w/D22 vacated to make room for new wire 20A.
 4. Relocate wire #20 (from footswitch harness @ port "C") from TB1-20 to TB2-20A. Label as #20A.
 5. Add 16 awg wire from TB2-20A to CR15-87.
 6. Add 16 awg wire from CR15-30 to TB1-20 and label #20.
 7. Add 16 awg wire from CR6-87A to CR15-85 and label #213.
 8. Add diode 29680018 from CR15-85 to CR15-86 with anode on CR15-86.
 9. Add 16 awg wire from CR15-86 to TB1-2 and label #2.



CUSTOMARY: ALL DIMENSIONS IN INCHES		NORDCO		THIRD ANGLE PROJECTION
IMPLIED TOLERANCES		DESCRIPTION: ANCHOR APPLICATOR E		
FRACTION	± 1/8	INSTALL, TRAVEL/CYCLE START KIT		
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER
.XX	± .03	D	NTS	9768 5021
.XXX	± .010	DATE	DATE	REV.
25/	UNLESS OTHERWISE STATED	DATE	DATE	DWG
PLANE ANGLES ± 1°		ASSEMBLY: 9868 0045		SHEET 1/4

NEW ISSUE	MKS	54007
DATE:	03/28/07	
DRAWN BY:		
CHECKED BY:		
DATE:		
E.C.D. #		

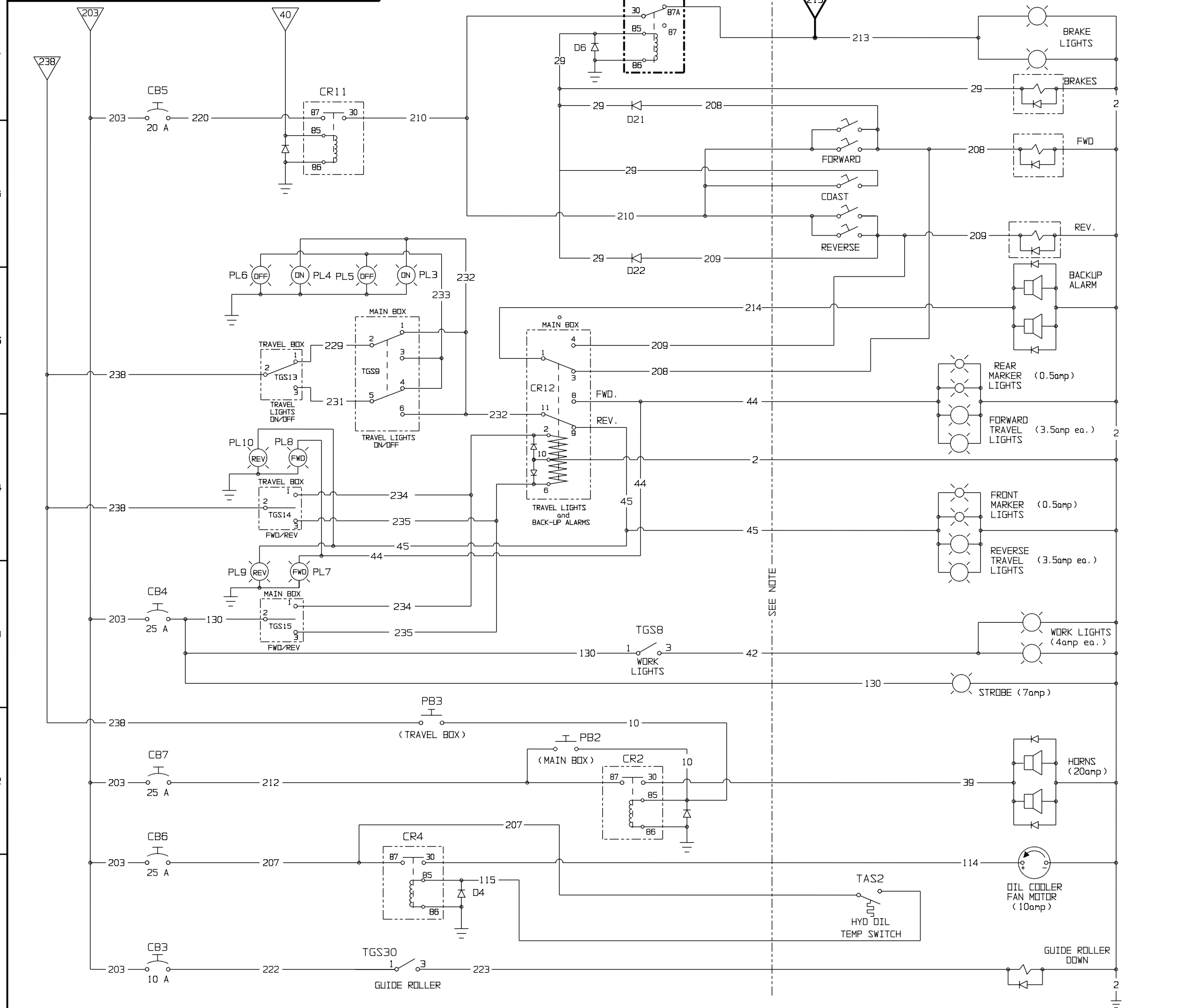


REFERENCE: ELECTRICAL SCHEMATIC 96680381-REVB

CUSTOMARY: ALL DIMENSIONS IN INCHES		THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES		DESCRIPTION: ANCHOR APPLICATOR E	
FRACTION	± 1/8	INSTALL, TRAVEL/CYCLE START KIT	
.X	± .06		
.XX	± .03		
.XXX	± .010	SIZE	SCALE
25/ MACHINE FINISH UNLESS OTHERWISE STATED		D NTS	9768 5021
PLANE ANGLES ± 1°		ASSEMBLY: 9868 0045	SHEET 2/4

NEW ISSUE	MKS 03/28/07	DATE:	E.C.D. #
CHANGE	DATE:	DATE:	DATE:

* INDICATES MOMENTARY CONTACT

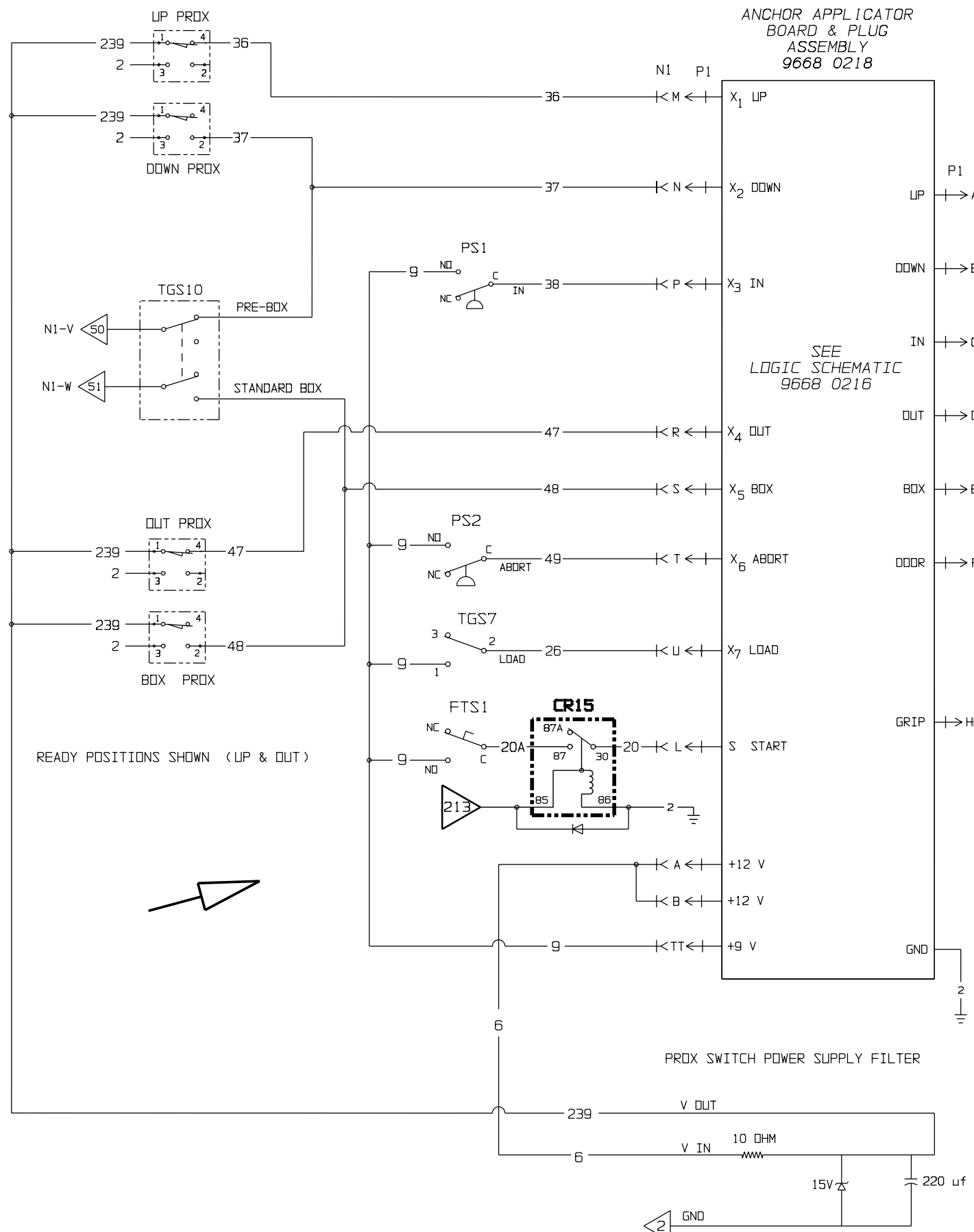


CR6

NOTE:
 ALL COMPONENTS AND WIRING SHOWN TO THE RIGHT OF THE DASHED LINE ARE CONNECTIONS EXTERNAL TO THE OPERATORS BOX.

REFERENCE: ELECTRICAL SCHEMATIC 96680381-REVB

CUSTOMARY: ALL DIMENSIONS IN INCHES		NORDCO		THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES		DESCRIPTION: ANCHOR APPLICATOR E			
FRACTION ± 1/8		INSTALL, TRAVEL CYCLE START KIT			
.X ± .06		SIZE		DRAWING CODE NUMBER	
.XX ± .03		D NTS		9768 5021	
.XXX ± .010		25/ MACHINING FINISH UNLESS OTHERWISE STATED		DWG	
PLANE ANGLES ± 1°		ASSEMBLY: 9868 0045		SHEET 3/4	

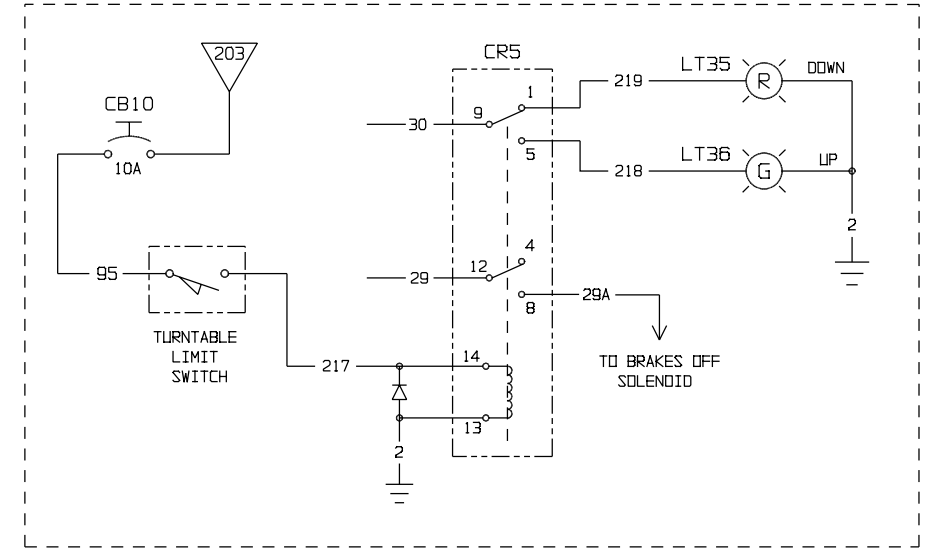


ANCHOR APPLICATOR BOARD & PLUG ASSEMBLY 9668 0218

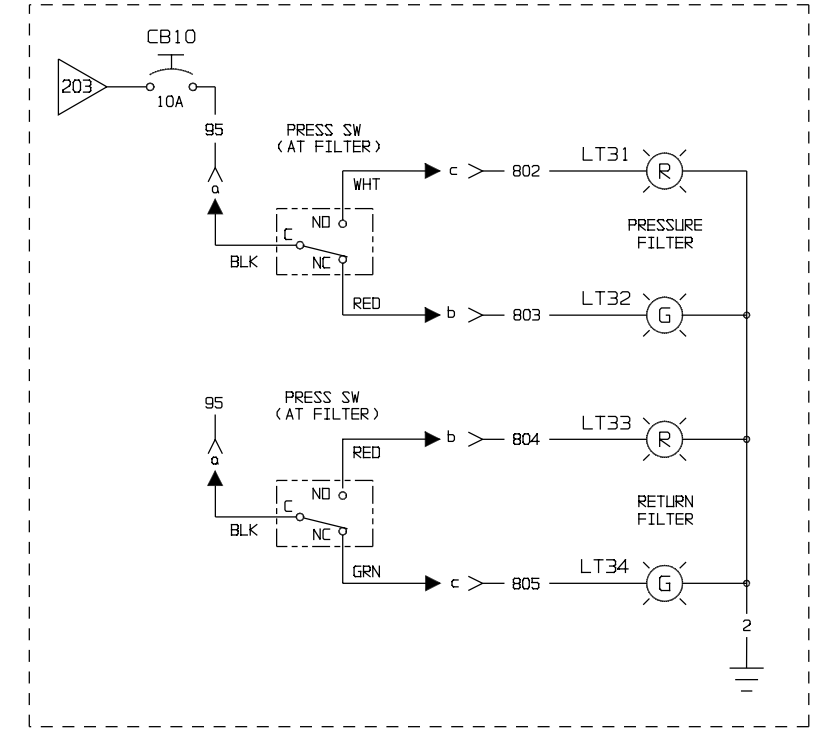
SEE LOGIC SCHEMATIC 9668 0216

* INDICATES MOMENTARY CONTACT

SET-OFF CYLINDER INDICATOR LIGHTS (OPTIONAL)



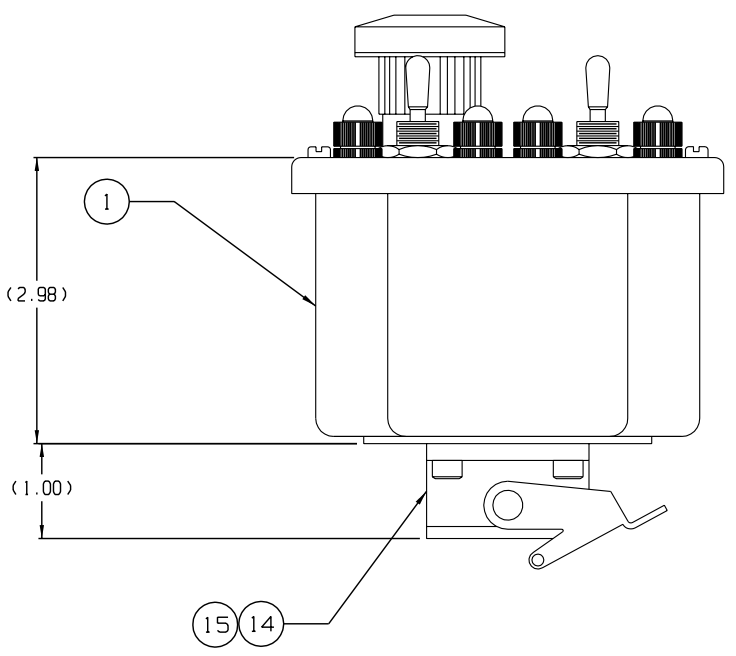
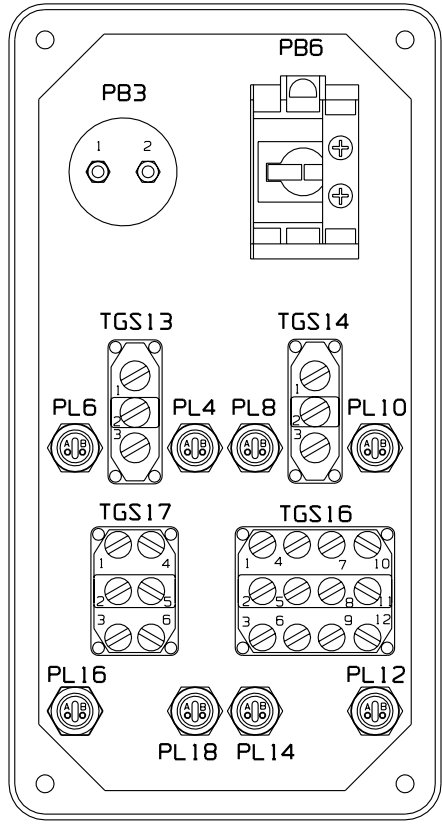
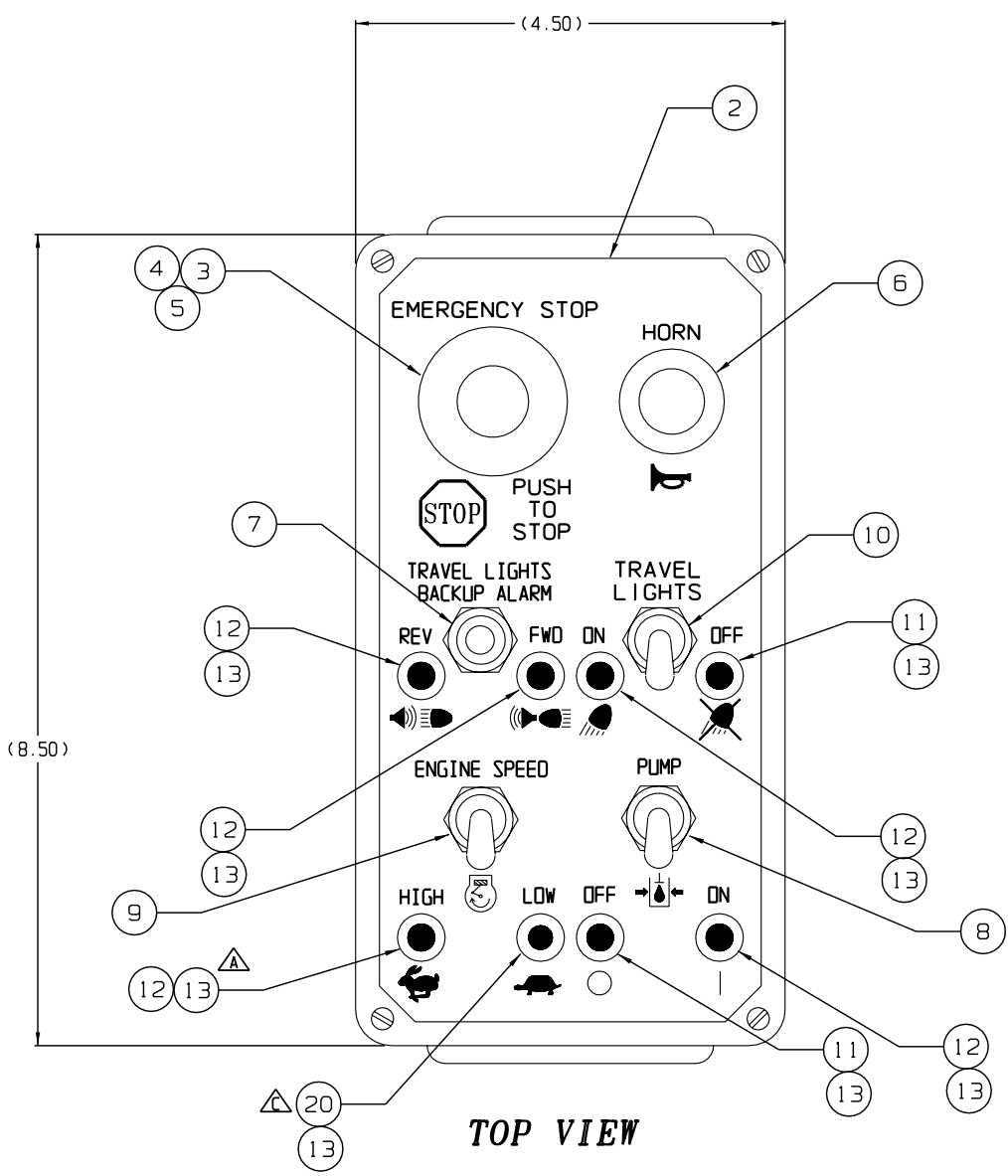
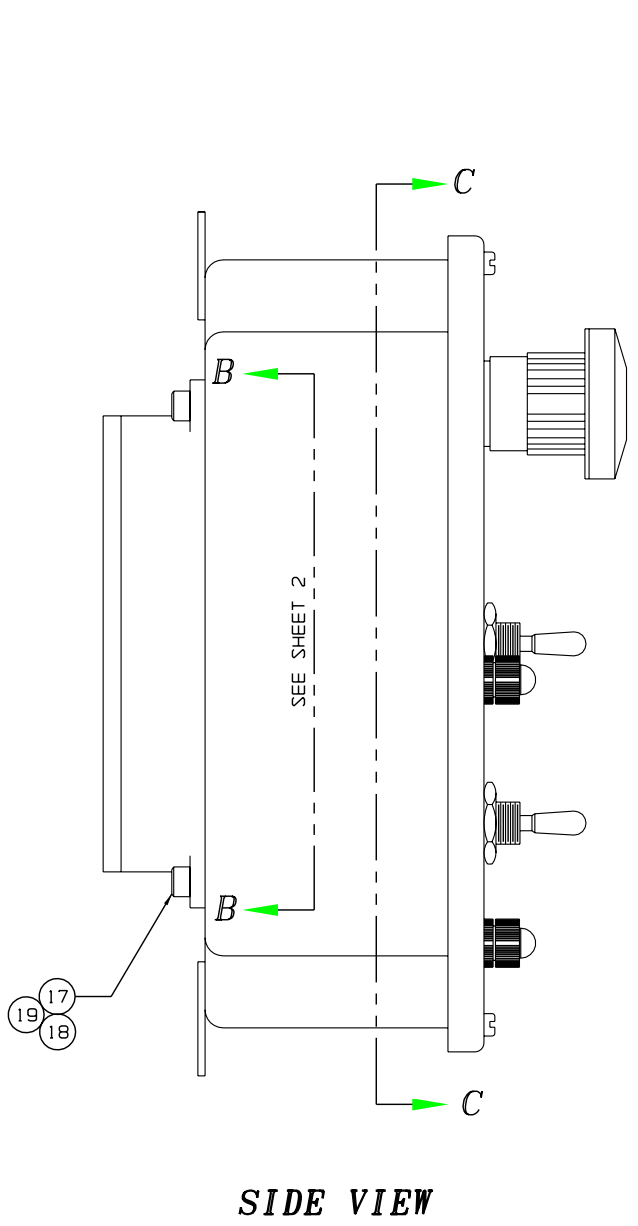
FILTER INDICATOR LIGHTS (OPTIONAL)



REFERENCE: ELECTRICAL SCHEMATIC 96680381-REVB

CUSTOMARY: ALL DIMENSIONS IN INCHES		THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES		DESCRIPTION: ANCHOR APPLICATOR E	
FRACTION ± 1/8		INSTALL, TRAVEL/CYCLE START KIT	
.X ± .06			
.XX ± .03			
.XXX ± .010			
SIZE	SCALE	DRAWING CODE NUMBER	REV.
D	NTS	9768 5021	-
PLANE ANGLES ± 1°		ASSEMBLY: 9868 0045	
SHEET 4/4			

NEW ISSUE	MKS 03/28/07	54007
DATE:	DATE:	E.C.D. #



LIST OF MATERIALS				
ITEM NO.	PART NUMBER OR MATERIAL	QTY.	REV.	PART NAME
1	2029 2897	1		TRAVEL CONTROL ENCLOSURE
2	5640 5188	1		PLAQUE
3	5126 618	1		OPERATOR ALLEN BRADLEY #800EM-MP24
4	5125 990	1		LATCH, MOUNTING ALLEN BRADLEY 800E-A3L
5	5126 894	1		BLOCK, CONTACT ALLEN BRADLEY 800E-3X01
6	5125 960	1		BUTTON, HORN COLE HERSEE #9216-03
7	5125 590	1		SWITCH, TOGGLE SPOT 3-POS MDM CH 8500K2
8	5125 579	1		SWITCH, TOGGLE DPDT 2-POS CH 8501K4
9	5125 585	1		SWITCH, TOGGLE 4PDT 2-POS CH 8502K4
10	5125 587	1		SWITCH, TOGGLE SPDT 2-POS CH 8500K4
11	5190 901	2		LAMP (RED) DIALIGHT 507-4760-3731-500
12	5190 900	5		LAMP (GRN) DIALIGHT 507-4860-3732-500
13	5190 950	8		HOLDER, LAMP DIALIGHT 508-7538-504
14	5159 250	1		BASE, PANEL MOUNT T&B PB324
15	5159 152	1		INSERT, MALE T&B MS224
16	5164 405	26		TERMINAL, RING VACO #61305 OR EQUIV.
17	2782 003	4		SHCS #6-32 x 1/2" LG
18	3048 028	4		NUT, HEX #6-32
19	3064 452	4		LOCKWASHER #6
20	5190 902	1		LAMP (AMBER) DIALIGHT 507-4960-3733-500

NOTES

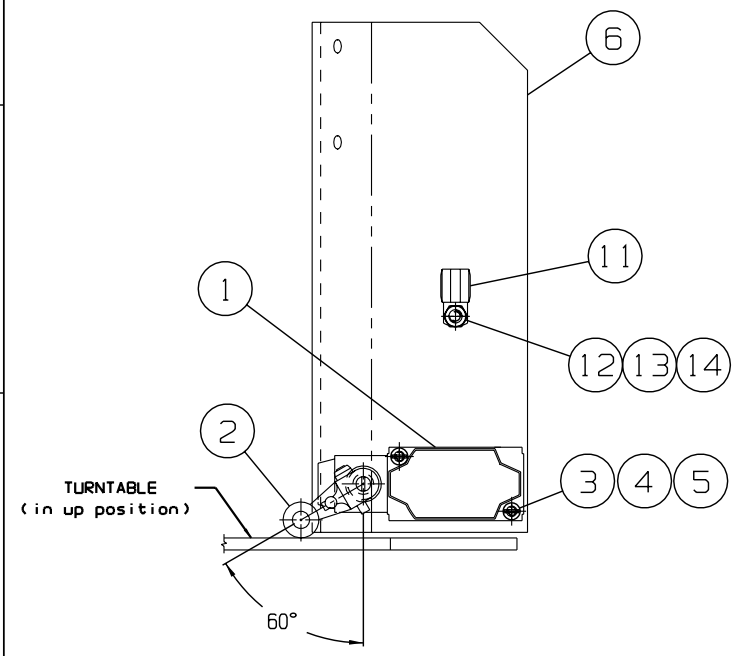
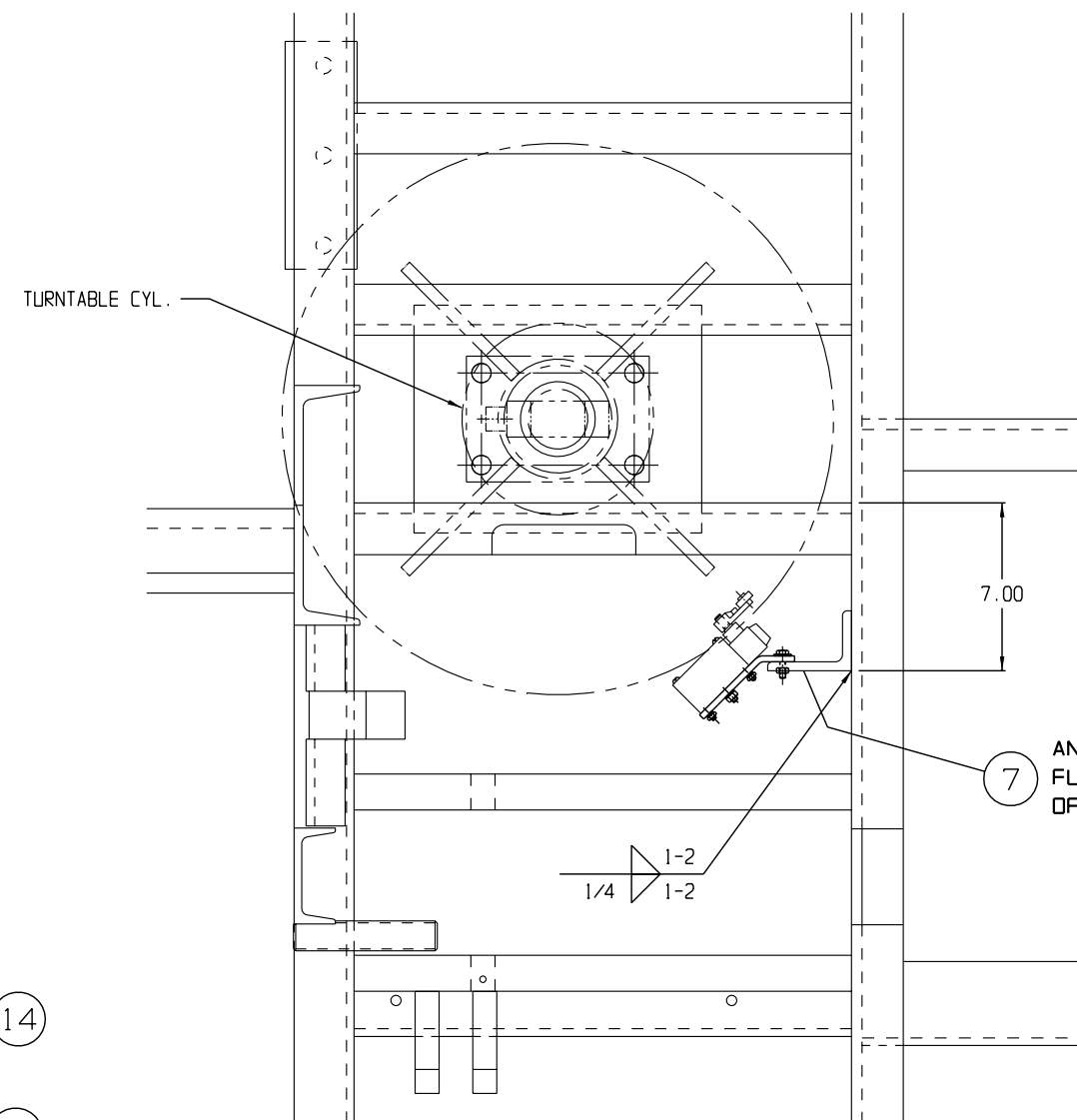
1. ALL WIRING CONNECTING BETWEEN DEVICES MOUNTED IN THE BOX COVER AND THE CONNECTOR BLOCK SHALL HAVE ADEQUATE LENGTH TO ALLOW REMOVAL OF THE COVER AND GAIN ACCESS TO INTERNAL CONNECTIONS.
2. SEE SHEET TWO FOR WIRING DIAGRAM AND WIRE CONNECTION LIST.

(REF. Wiring Schematic: 9668 0381 DWG)

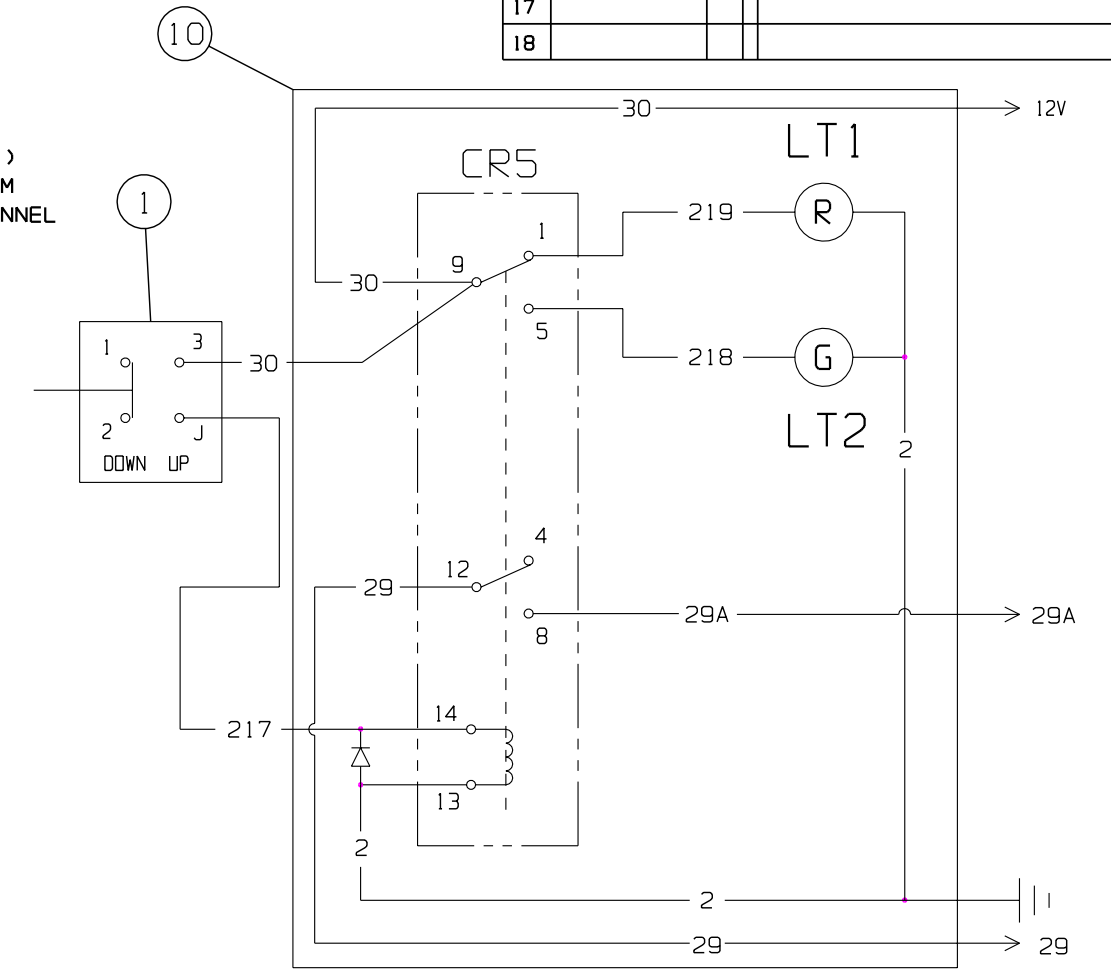
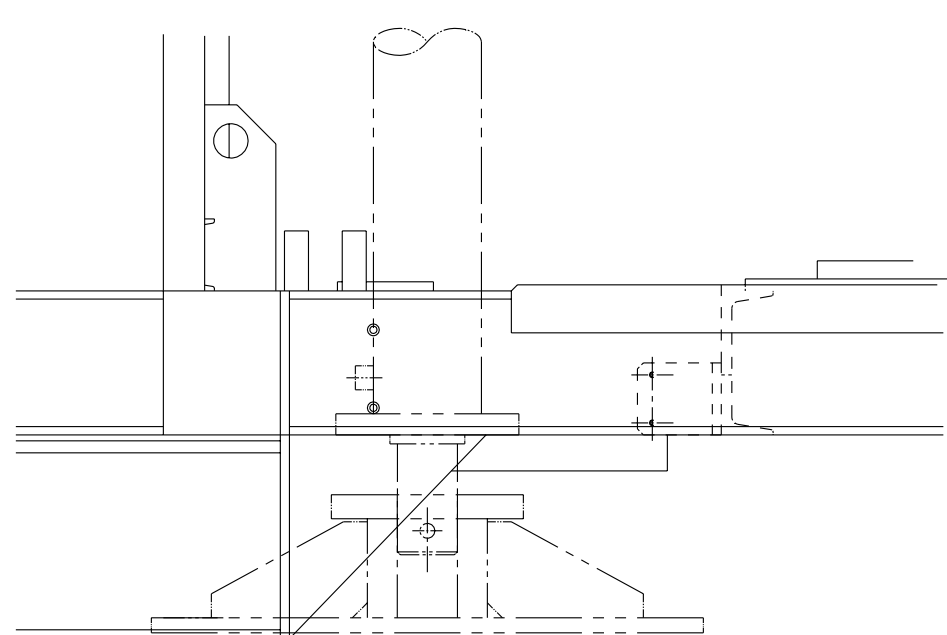
CUSTOMARY: ALL DIMENSIONS IN INCHES			
IMPLIED TOLERANCES Finished Dimensions		DRAWN: LOW DATE: 2/11/2000 CHECKED: APPROVED:	
PRODUCT: ANCHOR APPLICATOR E		DESCRIPTION: TRAVEL CONTROL PANEL ASSEMBLY	
SIZE: FULL SCALE: 1:1		DRAWING CODE NUMBER: 9668 0364	
REV: 1 OF 2		SHEET 1 OF 2	

ADD ITEM 20, TGS13 WAS 15, TGS14 WAS 13	MKS	51972
SEE SHEET 2	01-25-01	
ADDED SIDE VIEW & INSIDE COVER VIEW. ITEMS 11&13 WERE 11&12, ITEMS 17, 18, 19, 20 WAS #10	04-25-00	
ITEM 11 QTY 3 WAS 4	LOW	
ITEM 12 QTY 5 WAS 4	3-31-00	
NEW ISSUE	JBW	

LIST OF MATERIALS				
ITEM NO.	PART NUMBER OR MATERIAL	QTY.	REV.	PART NAME
1	5127 230	1		LIMIT SWITCH 802T-A
2	4765 1451	1		LEVER LIMIT SWITCH
3	2837 661	2		MACH SCREW #10-24 UNC X 2-1/4
4	3064 458	2		WASHER LOCK 3/16
5	3048 040	2		NUT HEX #10-24
6	1371 0354	1		LIMIT SWITCH MTG PLATE
7	1238 2735	1		LIMIT SWITCH MTG ANGLE
8	2774 281	2		CAPSCREW HEX 1/4-20 UNC X 1
9	3060 025	2		WASHER WRT 1/4
10	9668 0288	1		LIGHT & RELAY BOX ASSEMBLY
11	2458 7358	1		CLAMP 3/8 WIRE
12	2774 271	1		CAPSCREW HEX 1/4-20 UNC X 3/4
13	3001 011	1		NUT 1/4-20 UNC
14	3060 465	1		WASHER 1/4
15				
16				
17				
18				



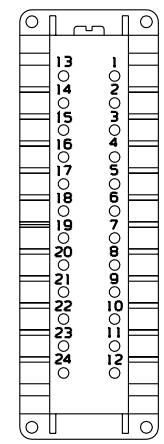
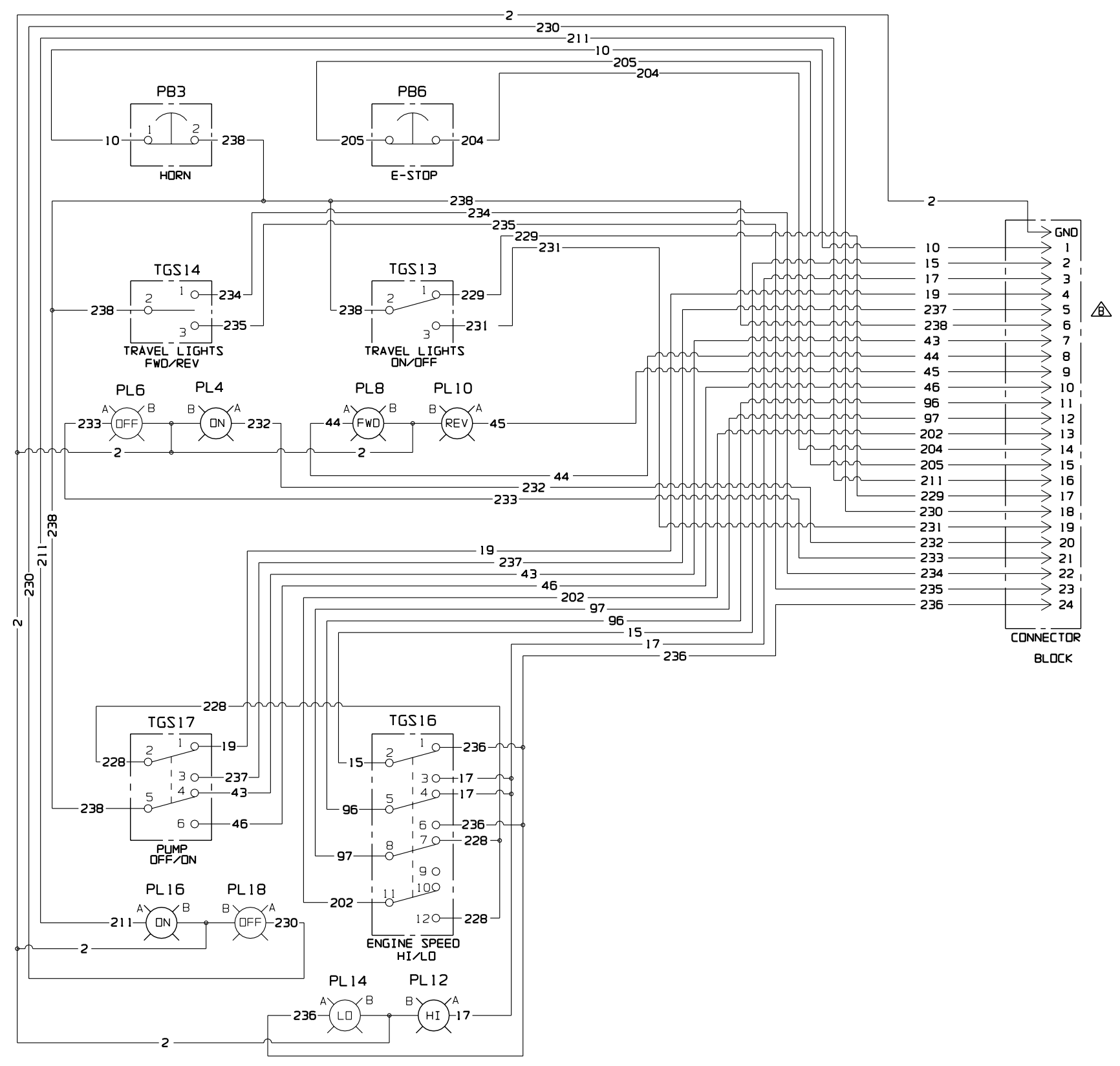
INSTALLATION OF LIMIT SWITCH



ELECTRICAL SCHEMATIC

CUSTOMARY:		NORDCO Equipment	
ALL DIMENSIONS IN INCHES	DRAWN: MKS	CHECKED:	
IMPLIED TOLERANCES	DATE: 01/30/98	APPROVED:	
Finished Dimensions	PRODUCT: ANCHOR APPLICATOR E	DESCRIPTION:	INSTALLATION TURNTABLE SWITCH
DECIMAL INCH	SIZE	SCALE	DRAWING CODE NUMBER
FRACTION	1/8	1/4	9668 0295
.x	.06		DWG
.xx	.03		A
.xxx	.010		
250	INCHES FINISH UNLESS OTHERWISE STATED	ASSEMBLY: 9668 0289	SHEET 1 OF 1
PLANE ANGLES	ONE DEGREE		

DELETED IT-15-18-REV'D	GOS	NONE	
SCHEMATIC: IT-10 WAS 3270 332	04-06-98		
NEW ISSUE	02-02-98	NONE	
BY: DATE:	ENG. ORDER #	PLANE ANGLES	ONE DEGREE



VIEW B-B
(back inside-of-box view of connector)
SEE SHEET 1

WIRE CONNECTION LIST			
WIRE #	END #1 LOCATION	END #2 LOCATION	WIRE DESCRIPTION
2	CONN BLOCK-GND	PL6eB	14 AWG BLACK
2	PL6eB	PL4eB	20 AWG BLACK
2	PL4eB	PL8eB	20 AWG BLACK
2	PL8eB	PL10eB	20 AWG BLACK
2	PL10eB	PL12eB	20 AWG BLACK
2	PL12eB	PL14eB	20 AWG BLACK
2	PL14eB	PL18eB	20 AWG BLACK
2	PL18eB	PL16eB	20 AWG BLACK
10	CONN BLOCKe1	PB3-1	14 AWG BLACK
15	CONN BLOCKe2	TGS16e2	14 AWG BLACK
17	CONN BLOCKe3	TGS16e3	14 AWG BLACK
17	TGS16e3	TGS16e4	14 AWG BLACK
17	TGS16e4	PL12eA	20 AWG BLACK
19	CONN BLOCKe4	TGS17e1	14 AWG BLACK
237	CONN BLOCKe5	TGS17e3	14 AWG BLACK
238	CONN BLOCKe6	TGS13e2	14 AWG BLACK
238	TGS13e2	TGS14e2	14 AWG BLACK
238	CONN BLOCKe6	PB3-2	14 AWG BLACK
238	TGS14e2	TGS17e5	14 AWG BLACK
43	CONN BLOCKe7	TGS17e4	14 AWG BLACK
44	CONN BLOCKe8	PL8eA	20 AWG BLACK
45	CONN BLOCKe9	PL10eA	20 AWG BLACK
46	CONN BLOCKe10	TGS17e6	14 AWG BLACK
96	CONN BLOCKe11	TGS16e5	14 AWG BLACK
97	CONN BLOCKe12	TGS16e8	14 AWG BLACK
202	CONN BLOCKe13	TGS16e11	14 AWG BLACK
204	CONN BLOCKe14	PB6-204	14 AWG BLACK
205	CONN BLOCKe15	PB6-205	14 AWG BLACK
211	CONN BLOCKe16	PL16eA	20 AWG BLACK
229	CONN BLOCKe17	TGS13e1	14 AWG BLACK
230	CONN BLOCKe18	PL18eA	20 AWG BLACK
231	CONN BLOCKe19	TGS13e3	14 AWG BLACK
232	CONN BLOCKe20	PL4eA	20 AWG BLACK
233	CONN BLOCKe21	PL6eA	20 AWG BLACK
234	CONN BLOCKe22	TGS14e1	14 AWG BLACK
235	CONN BLOCKe23	TGS14e3	14 AWG BLACK
236	CONN BLOCKe24	TGS16e1	14 AWG BLACK
236	TGS16e1	TGS16e6	14 AWG BLACK
236	TGS16e6	PL14eA	20 AWG BLACK
228	TGS16e7	TGS16e12	14 AWG BLACK
228	TGS17e2	TGS16e12	14 AWG BLACK

⚠

CUSTOMARY: ALL DIMENSIONS IN INCHES		 DRAWN: LDW CHECKED: DATE: 2-18-00 APPROVED:	
IMPLIED TOLERANCES Finished Dimensions		PRODUCT: ANCHOR APPLICATOR E	
DECIMAL INCH		DESCRIPTION: TRAVEL CONTROL PANEL ASSEMBLY	
FRACTION : 1/8 .X : .06 .XX : .03 .XXX : .010		SIZE	SCALE
250 / MACHINE FINISH UNLESS OTHERWISE STATED PLANE ANGLES : ONE DEGREE		DRAWING CODE NUMBER 9668 0364	REV.
ASSEMBLY: -		SHEET 2 OF 2	

⚠	WIRE 238 WAS 30. ADD WIRE 228 TO CONN LIST. FIXED TYPES IN LIST	MCS	01-25-01	51972
Ⓜ	WIRE #26	LDW	4-25-00	
Ⓜ	ADDED WIRE CONN LIST. REMOVED COVER VIEW	JBW	3-31-00	
Ⓜ	NEW ISSUE	JBW		
REV	CHANGE	BY:	ENG. ORDER #	

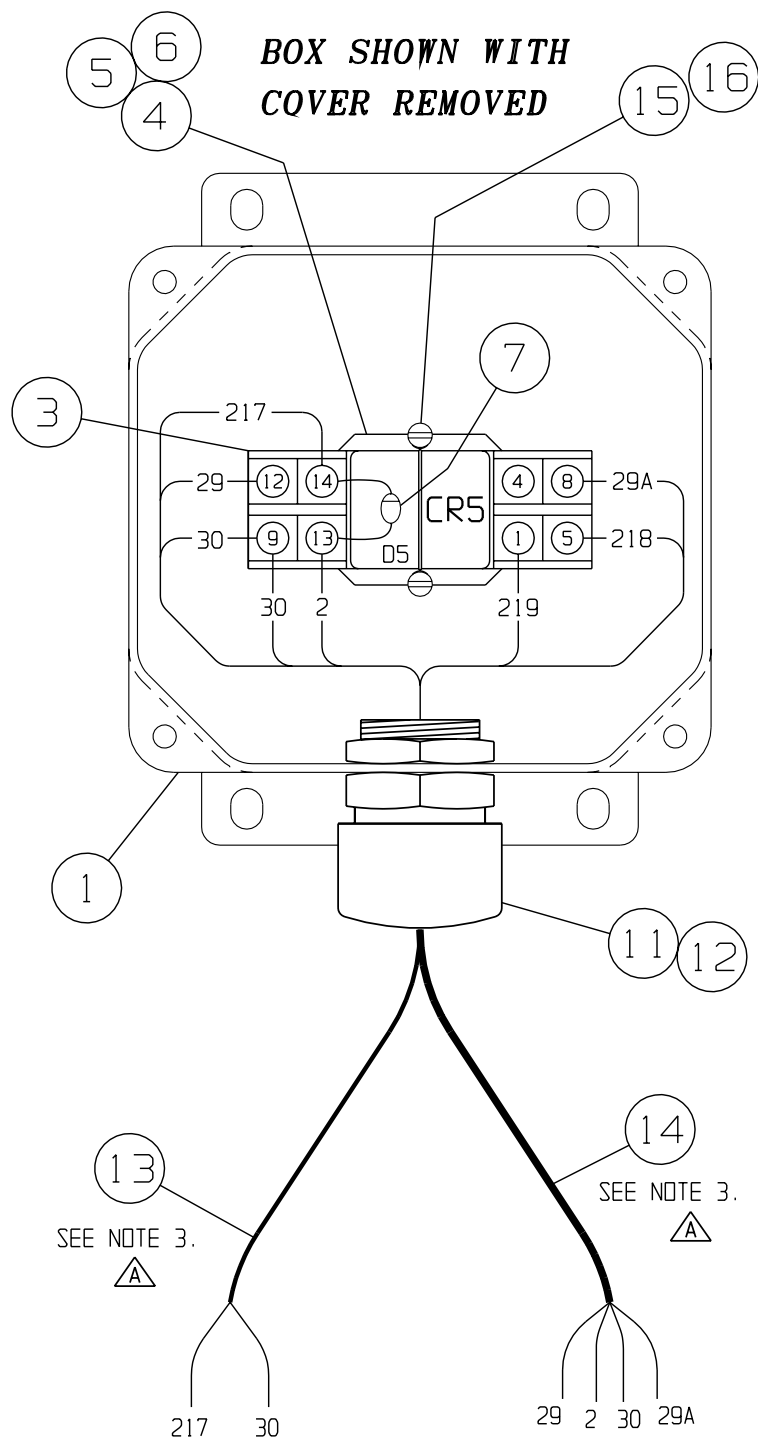
NO. 9668 0288 1/1

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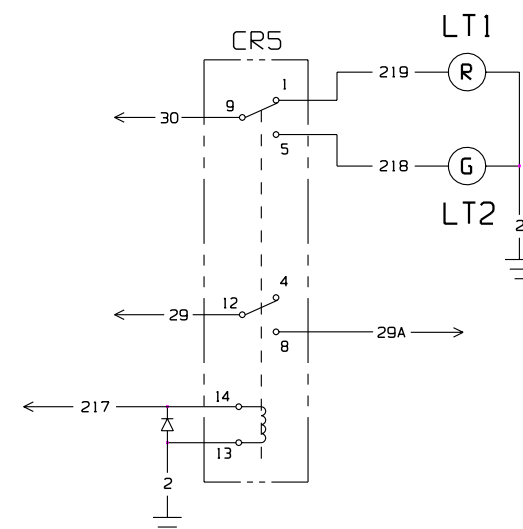
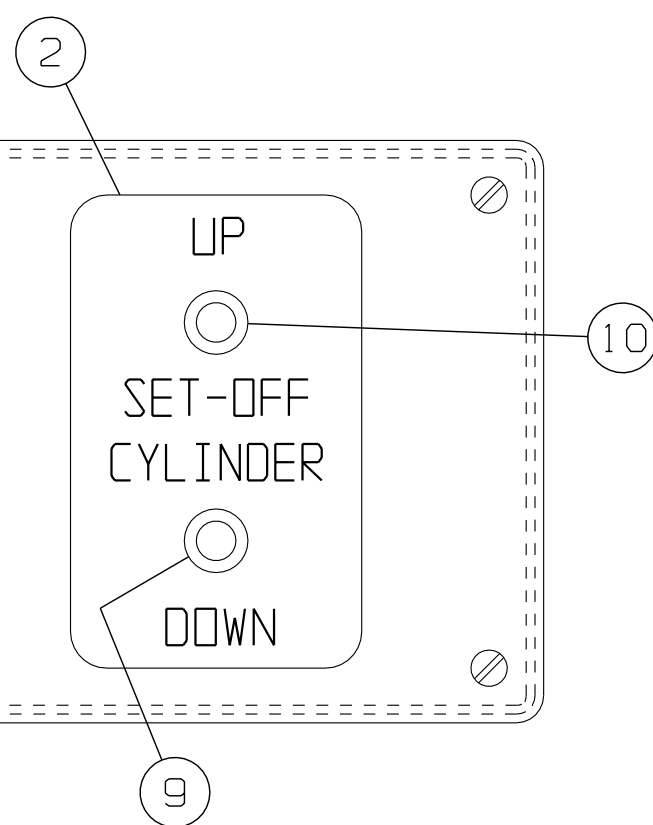
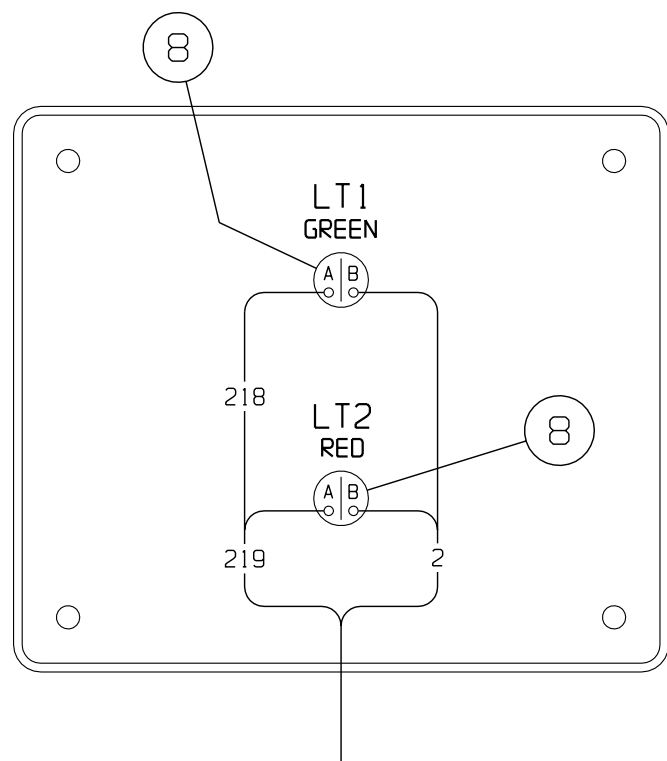
LIST OF MATERIALS

ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	UNIT	PART NAME	DWG SIZE
1	2029 2693	1		ENCLOSURE	C
2	5640 5114	1		PLAQUE	B
3	5155 116	1		RELAY SOCKET IDEC 3SH2B-05	
4	5196 300	1		RELAY IDEC #RH2B-UL-12VDC	
5	7506 0215	1		HOLD DOWN SPRING IDEC #SY4S-02F1	
6	5158 434	1		CLIP SET IDEC #SFA-101	
7	2968 0018	1		DIODE #1N5404	
8	5190 950	2		LAMP HOLDER DIALIGHT #508-7538-504	
9	5190 901	1		LAMP DIALIGHT #507 4760-3731-500 RED	
10	5190 900	1		LAMP DIALIGHT #507 4860-3732-500 GREEN	
11	5103 800	1		CORD CONNECTOR CROUSE HINES #CGB197	
12	5104 014	1		LOCKNUT, CONDUIT 1/2 NPT	
13	5270 232	AR		CORD 18-2 AWG BLACK TYPE SDW	
14	5270 544	AR		CORD 14-4 AWG BLACK TYPE SDW	
15	2837 499	2		SCREW, RD. HD. MACHINE #8-32 X 1.0" LG.	
16	3041 010	2		LOCKNUT, #8-32 FLEXLOC OR EQUIV.	
17		AR		WIRE TAG ELECTROVERT OR EQUIV.	
18	5164 305	4		TERMINAL, RING VACO #61305 OR EQUIV.	
19	5164 246	10		TERMINAL, RING VACO #61206 OR EQUIV.	

BOX SHOWN WITH COVER REMOVED



INSIDE VIEW OF COVER



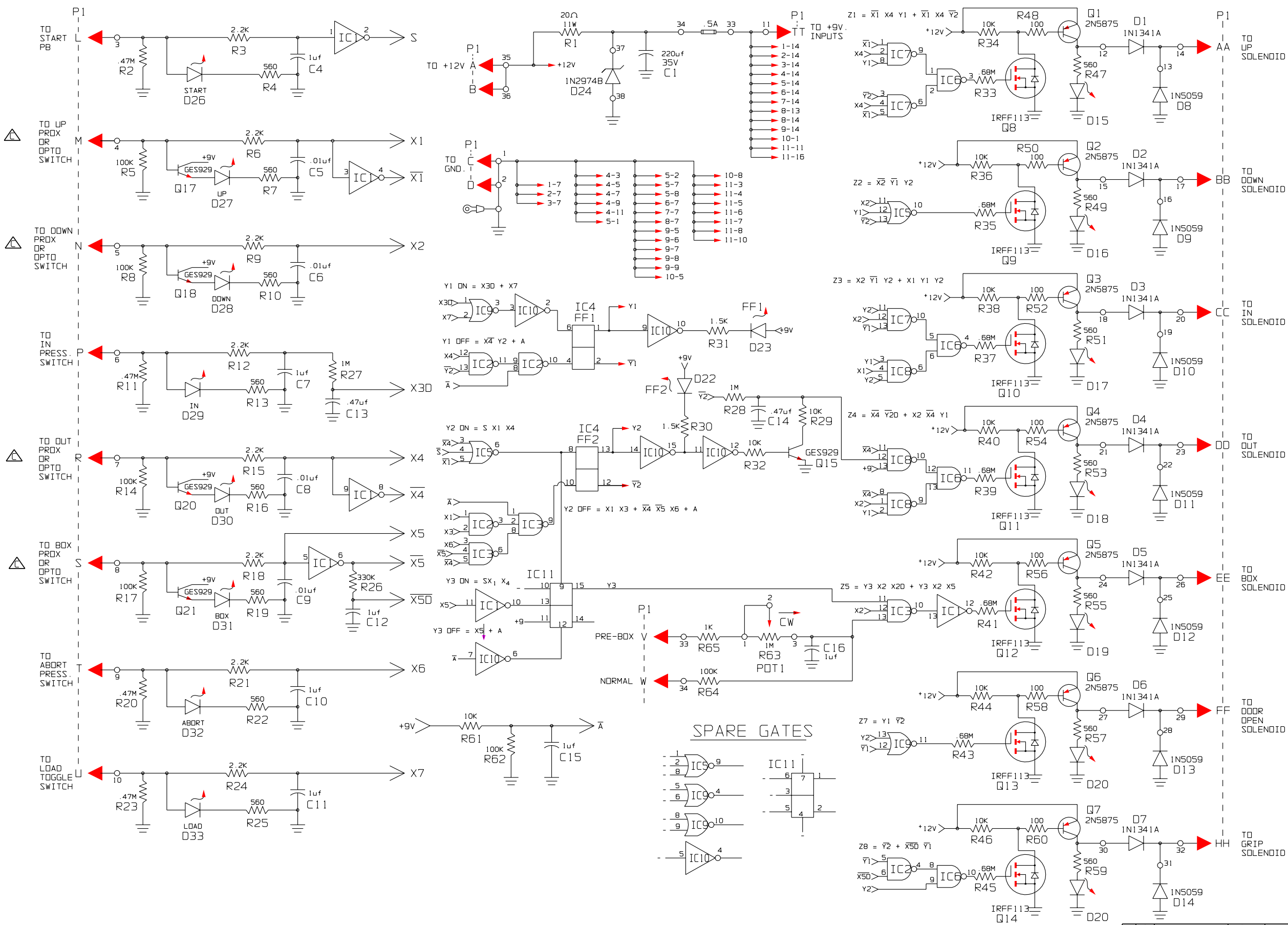
NOTE:

1. ALL WIRES ENDS TO BE IDENTIFIED WITH ITEM 17.
2. 18-2 AWG CORD, ITEM 13, IS TO EXTEND 84" BEYOND THE CORD CONNECTOR. CORD SHEATHING TO BE STRIPPED BACK 6".
3. 14-4 AWG CORD, ITEM 14, IS TO EXTEND 130" BEYOND THE CORD CONNECTOR. CORD SHEATHING TO BE STRIPPED BACK 10".



MF	REV	CHANGE	DATE	ENG. ORDER #

CUSTOMARY: ALL DIMENSIONS IN INCHES		 Equipment	
DRAWN: LCP DATE: 6/3/97		CHECKED: APPROVED:	
IMPLIED TOLERANCES Finished Dimensions		PRODUCT: ANCHOR APPLICATOR E	
DECIMAL INCH .X : .1 .XX : .06 .XXX : .010		DESCRIPTION: SET OFF CYL INDICATOR LIGHT BOX ASSEMBLY (W/BRAKES APPLIED FEATURE)	
SIZE	SCALE	DRAWING CODE NUMBER	REV.
C	1/2	9668 0288	B
ASSEMBLY: -		SHEET 1 OF 1	



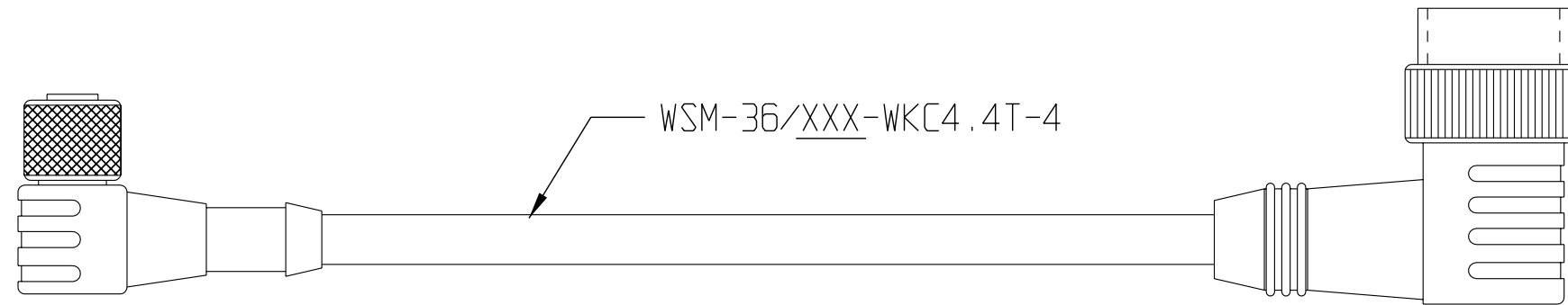
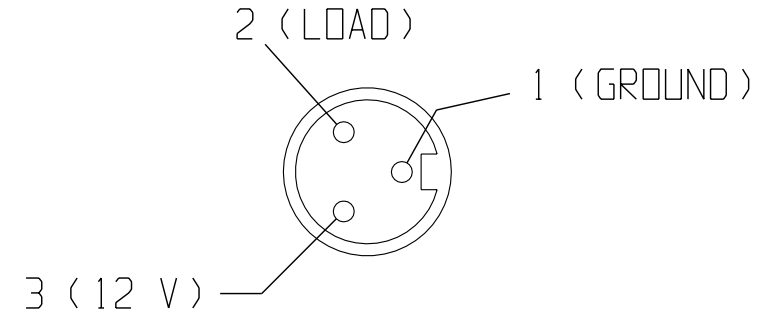
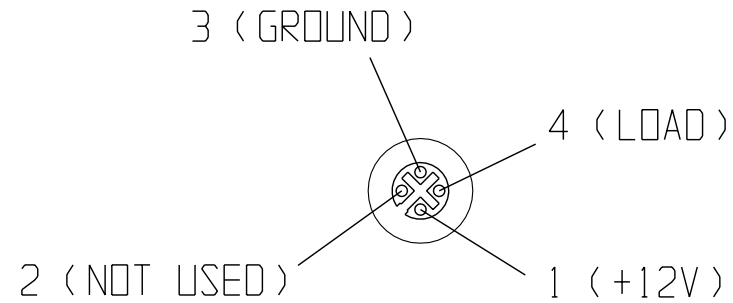
68-42
S/N 680232 and Above

CUSTOMARY:		NORDCO Equipment	
ALL DIMENSIONS IN INCHES	DRAWN: BBB	CHECKED:	
IMPLIED TOLERANCES Finished Dimensions	DATE: 03/15/94	APPROVED:	
DESCRIPTION:		LOGIC SCHEMATIC	
DECIMAL INCH	FRACTION	SIZE	SCALE
1/8	1/8	NTS	9668 0216
1/16	1/16		
1/32	1/32		
1/64	1/64		
1/128	1/128		
1/256	1/256		
1/512	1/512		
1/1024	1/1024		
1/2048	1/2048		
1/4096	1/4096		
1/8192	1/8192		
1/16384	1/16384		
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NO. 2231 1120

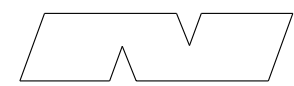
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NOTE:

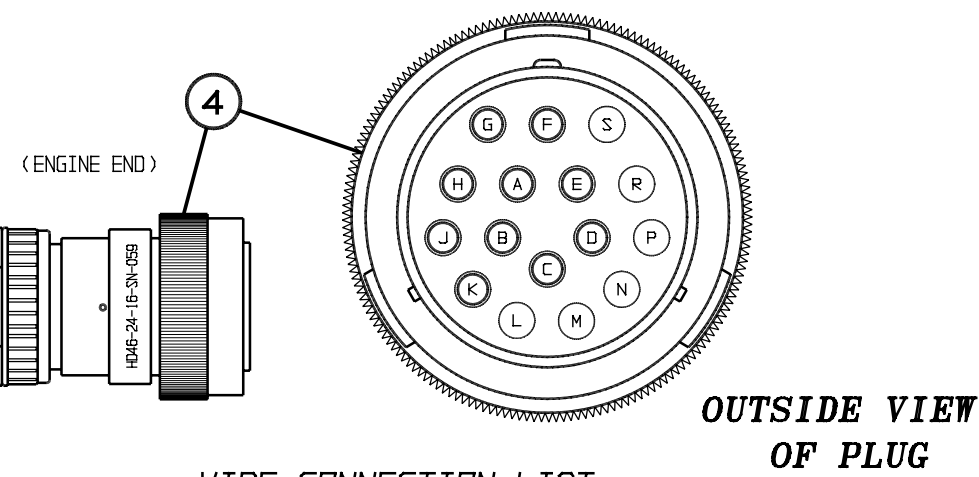
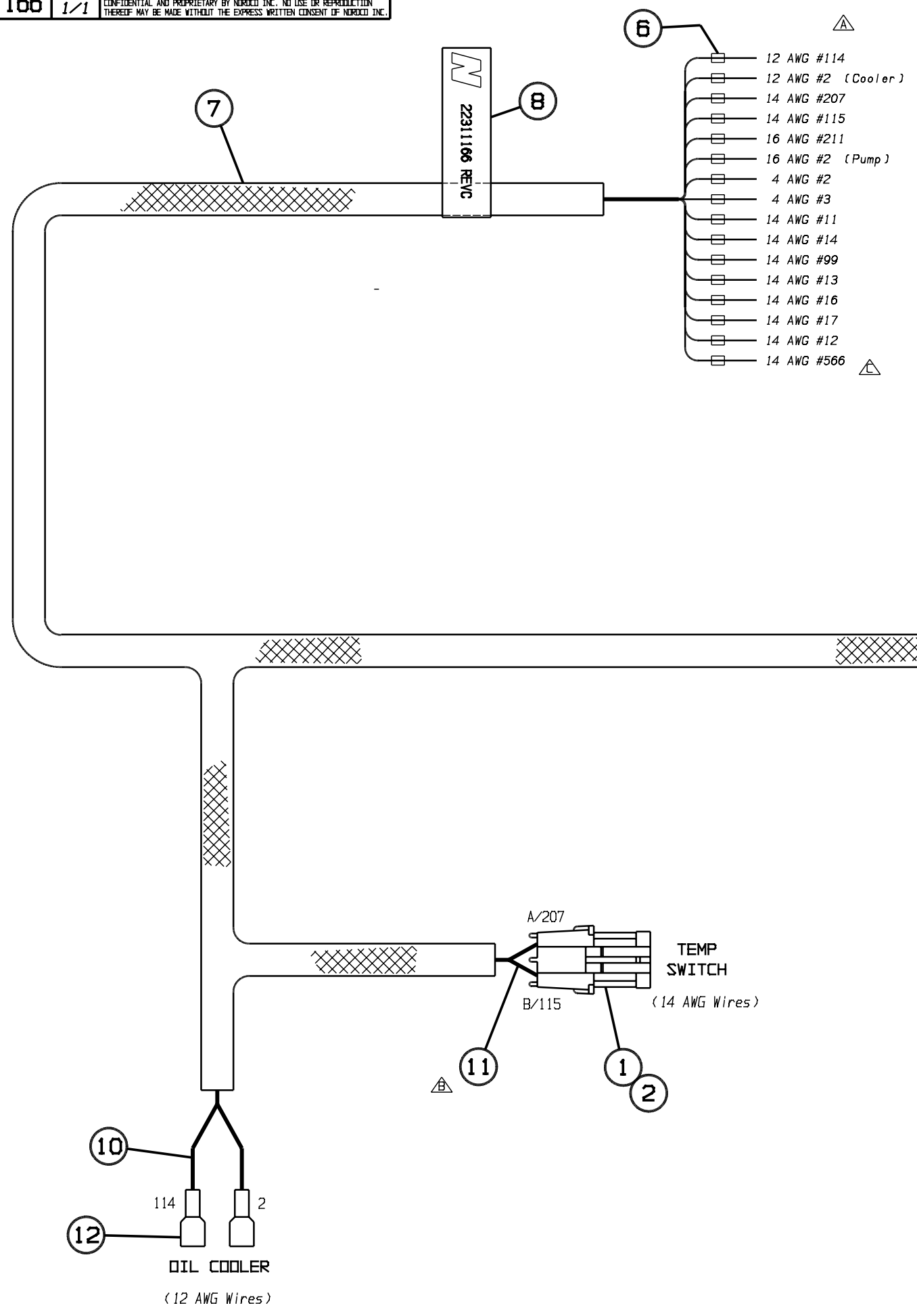
1. CORDSET WITH 3 PIN MINIFAST MALE PLUG, 90° MALE COUPLING NUT, OIL RESISTANT YELLOW PVC JACKET CABLE, AND 4 PIN EUROFAST FEMALE PLUG, 90° FEMALE COUPLING NUT.
2. "XXX" IN CABLE DESIGNATION INDICATES LENGTH IN INCHES. INDIVIDUAL CABLES ARE TO BE MARKED WITH THIS DESCRIPTION.
3. CABLES ARE DEFINED BY THIS DOCUMENT AND HAVE NO INDIVIDUAL DRAWINGS. NORDCO PART NUMBER INDICATES GENERAL CABLE CONFIGURATION WITH LENGTH INCLUDED. (EX.: 22311120-157 IS A CABLE ASSEMBLY 157" IN LENGTH)

CUSTOMARY: ALL DIMENSIONS IN INCHES	 NORDCO -NORDBERG Equipment		
	DRAWN: LCP DATE: 8/20/96	CHECKED: APPROVED:	
IMPLIED TOLERANCES Finished Dimensions	PRODUCT: TWO TIE SCREW SPIKER		
DECIMAL INCH	DESCRIPTION: JUNCTION BOX PROX SWITCH CABLE		
.X : .1 .XX : .06 .XXX : .010	SIZE	SCALE	DRAWING CODE NUMBER
250/ MACHINE FINISH UNLESS OTHERWISE STATED	B	FULL	2231 1120
	ASSEMBLY: -		SHEET 1 OF 1
PLANE ANGLES : ONE DEGREE	REV.		

△				
Ⓜ	△	NEW ISSUE	LCP 8/22/96	51284
MF	REV	CHANGE	BY: DATE:	ENG. ORDER #

LIST OF MATERIALS				
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	PART NAME	DWG. SIZE
1	5166 772	1	CONNECTOR, TWO WAY SHROLD PACKARD #12010973	
2	5166 782	2	PIN, MALE PACKARD #12033674	
3	2231 1560	1	DIN CABLE-TURCK #VAG21-10.048-5 W/SUPPRESSION	
4		1	CONNECTOR,DEUTSCH HD46-24-16-SN-059	
5				
6		15	ELECTROVERT WIRE TAG	
7		AR	YELLOW BRADING MATERIAL 25.5 FT.	
8	4738 0100	1	PANDUIT THERMAL TRANSFER TAPE 1" WIDE #T400X00VXIY	
9		AR	16 AWG SXL WIRE BLACK	
10		AR	12 AWG SXL WIRE BLACK	
11		AR	14 AWG SXL WIRE BLACK	
12	5166 693	2	DISCONNECT, FEMALE TERMINAL SUPPLY #B-850	
13		AR	4 AWG SXL WIRE RED	
14		AR	4 AWG SXL WIRE GREEN	
15		1	RING TERMINAL #4 x 3/8 WAYTEK #35502	
16		1	RING TERMINAL #4 x 1/4 WAYTEK #35500	

- NOTE:**
1. ALL WIRE SPLICES TO BE IN THE HARNESS BODY.
 2. WIRING FROM OIL COOLER TO BE #12 AWG WIRE. PUMP WIRES TO BE #16 AWG.
 3. PACKARD CONNECTOR POSITIONS "A" OR "B" ARE INDICATED WITH WIRE NUMBERS.
 4. PACKAGE AND ATTACH DIN CONNECTOR HARDWARE AND GASKET TO HARNESS.



WIRE CONNECTION LIST

WIRE NO.	GAUGE	FUNCTION	CONNECTOR PIN POSITION
11	14	TEMP SENSOR	A
14	14	AUTO SHUTDOWN	B
99	14	STARTER SOLENOID	C
13	14	OIL PRESSURE SENDER	D
16	14	TACHOMETER	E
17	14	HI SPEED ACTUATOR	F
12	14	FUEL SOLENOID	G
3	4	Power - red	-
2	4	Ground - green	-
H	14	OPEN	H
566	14	LOW SPEED ACTUATOR	J
K	14	OPEN	K

PUMP

WIRE #	DIN #	FUNCTION
211	1	PUMP DESTROKE
2	2	GROUND

(16 AWG Wires)

CUSTOMARY: ALL DIMENSIONS IN INCHES		THIRD ANGLE PROJECTION	PRODUCT: ANCHOR APPLICATOR E	
			DESCRIPTION:	
IMPLIED TOLERANCES		FRACTION: 1/8		
ITEM 11 - TEMP SWITCH WAS LISTED AS ITEM 13 IN ERROR. DEL. ITEM 5, IT 9 WAS FASTAG.		.X : .06 .XX : .03 .XXX : .010		
ITEM 15 WAS BY 2. ITEM 16 ADDED. ADD WIRE #'S # PB-7.		NONE		
NEW ISSUE		51862		
DRAWN BY: DATE:		CHECKED BY: DATE:		
E.C.D. #		PLANE ANGLES +/- 1°		
ASSEMBLY: -		SHEET 1/1		

ENGINE HARNESS 12V
 W/OIL COOLER, PUMP & TEMP SWITCH
 D NTS 2231 1166 C

NO. 22311180

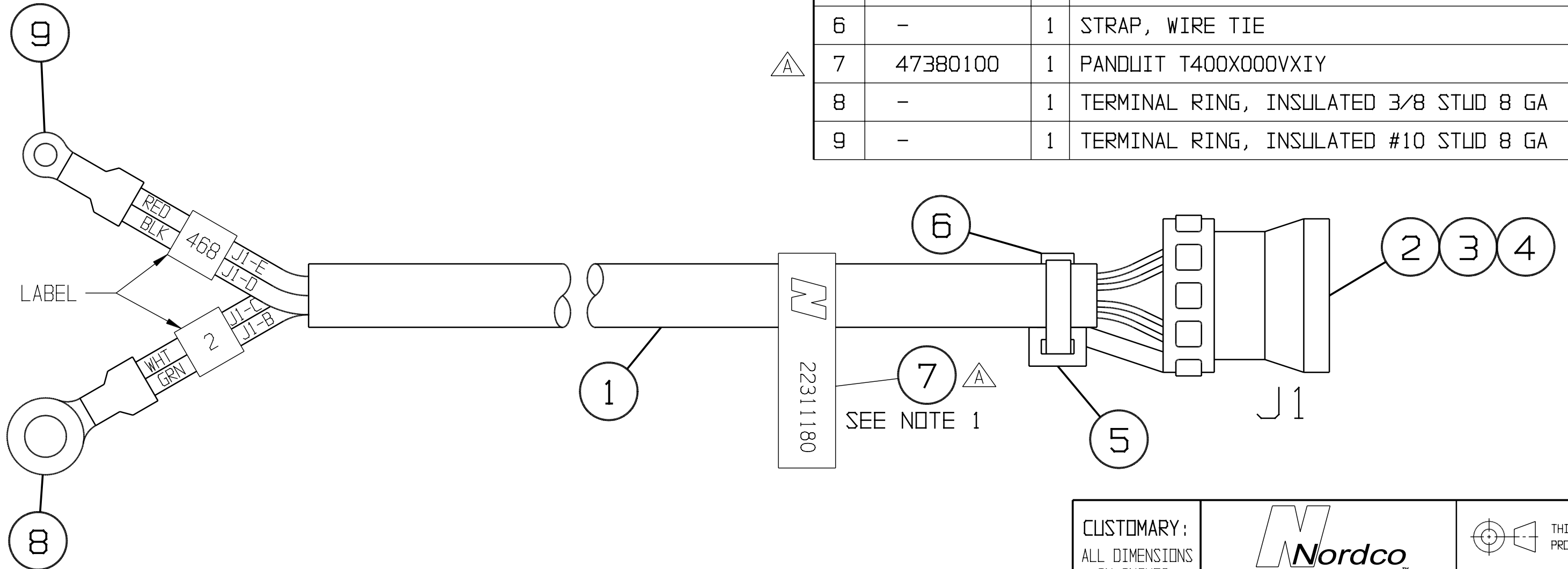
SHEET NO. 1/1

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SURFACE PREPARATION: WELD SLAG AND SPATTER TO BE REMOVED. ENTIRE UNIT THEN CLEANED AND APPROPRIATELY PRIME-PAINTED ONE COAT.

LIST OF MATERIALS

ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	PART NAME	DWG SIZE
1	5270544		CABLE, ELECTRICAL TYPE SOW 14/4C RED-BLK WHT-GRN	
2	-	1	CONNECTOR, PLUG DEUTSCH HD16-6-96-S	
3	-	4	CONTACT SOCKET DEUTSCH 0462-209-16141	
4	-	2	PLUG, SEALING DEUTSCH 114017	
5	-	1	STRAIN RELIEF DEUTSCH HD10	
6	-	1	STRAP, WIRE TIE	
7	47380100	1	PANDUIT T400X000VXIY	
8	-	1	TERMINAL RING, INSULATED 3/8 STUD 8 GA	
9	-	1	TERMINAL RING, INSULATED #10 STUD 8 GA	



NOTE: $\triangle A$
 1. HARNESS IS TO BE IDENTIFIED WITH CORRESPONDING NORDCO PART NUMBER PRINTED ON PANDUIT THERMAL TAPE AND ASSEMBLED AS NEAR AS POSSIBLE TO THE MAIN CONNECTOR. TAPE WIDTH IS 1"; TAPE LENGTH TO BE DETERMINED BY THE HARNESS DIAMETER.

$\triangle A$	ITEM 7 WAS FASTAG LABEL. NOTE 1 ADDED.	SWA	11-30-06	53922
\triangle	NEW ISSUE	GDS	04-27-99	NONE
MF	REV	CHANGE	DRAWN BY: DATE:	CHECKED BY: DATE:

CUSTOMARY: ALL DIMENSIONS IN INCHES				THIRD ANGLE PROJECTION
IMPLIED TOLERANCES	PRODUCT: ANCHOR APPLICATOR E			
FRACTION	$\pm 1/8$	DESCRIPTION: HARNESS FLOOD LIGHTS POWER SUPPLY		
.X	$\pm .06$	SIZE	SCALE	DRAWING CODE NUMBER
.XX	$\pm .03$	B	1/1	22311180
.XXX	$\pm .010$	ASSEMBLY: 96680220		REV. A
∇	250 MACHINE FINISH UNLESS OTHERWISE STATED	SHEET 1/1		

NO. 2231 1190
DWG

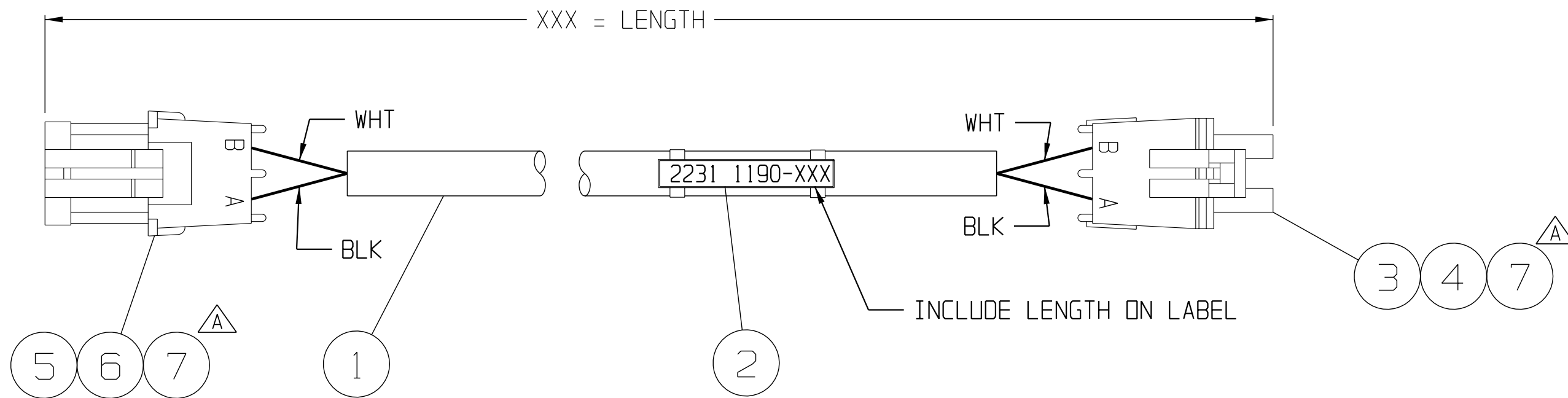
SHEET NO.
1/1

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LIST OF MATERIALS

ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	PART NAME	DWG SIZE
1	5270 228	-	CABLE, ELECTRICAL TYPE SO 16/2 BLK - WHT	
2	-	-	FASTAG LABEL	
3	5166 762	1	CONNECTOR, 2 WAY TOWER (PACKARD #12015792)	
4	5166 783	2	SLEEVE, FEMALE (PACKARD #12089188)	
5	5166 772	2	CONNECTOR, 2 WAY SHROUD (PACKARD 12010973)	
6	5166 782	2	SLEEVE, MALE (PACKARD 12089040)	
7	-	4	SEAL, (PACKARD #12015323) [WAYTEK #39000]	

CABLES ARE DEFINED BY THIS DOCUMENT & HAVE NO INDIVIDUAL DRAWINGS. PART NUMBER INDICATES GENERAL CABLE CONFIGURATION WITH INCLUDED LENGTH. "XXX" IN CABLE PART NUMBER INDICATES THE SPECIFIC LENGTH IN INCHES OF INDIVIDUAL CABLES. (EXAMPLE: 2231 1190-096 IS A CABLE ASSEMBLY 96" IN LENGTH)



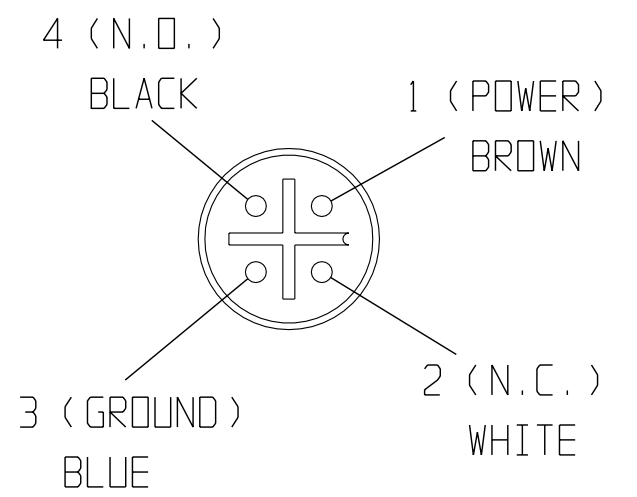
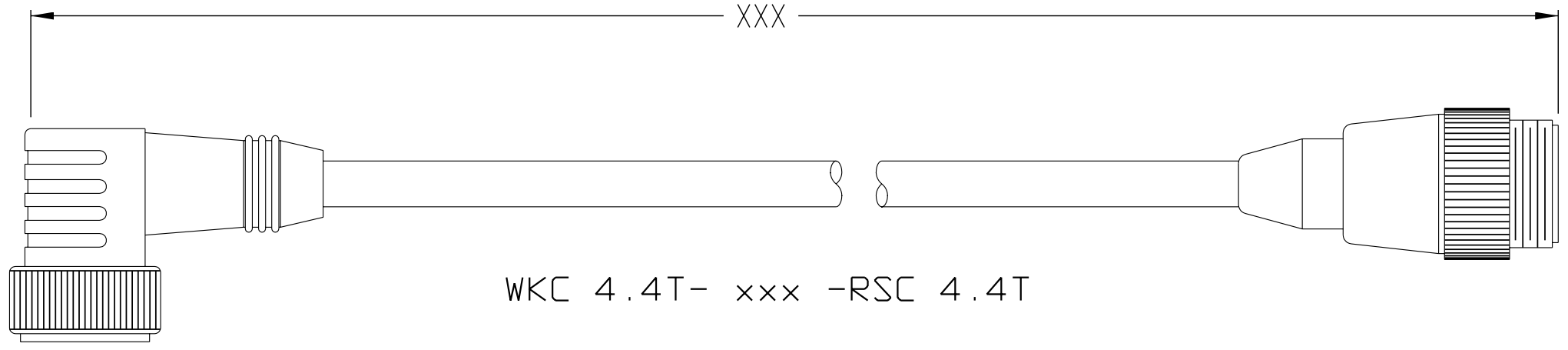
CUSTOMARY: ALL DIMENSIONS IN INCHES	 NORDCO		<i>Equipment</i>	
	DRAWN: GDS DATE: 4-28-99	CHECKED: APPROVED:		
IMPLIED TOLERANCES Finished Dimensions	PRODUCT: X			
DECIMAL INCH	DESCRIPTION: CABLE, FLOOD LIGHTS			
FRACTION : 1/8 .X : .06 .XX : .03 .XXX : .010	SIZE	SCALE	DRAWING CODE NUMBER	REV.
250 MACHINE FINISH UNLESS OTHERWISE STATED	B	NTS	2231 1190 DWG	A
PLANE ANGLES : ONE DEGREE	ASSEMBLY: 9833 0009		SHEET 1 OF 1	

△	ITEM 7 ADDED	SWA 05-04-01	NONE
Ⓜ	NEW ISSUE	GDS 4-28-99	NONE
MF	REV	CHANGE	BY: DATE: ENG. ORDER #

NO. 2231 1212

SHEET NO. 1/1

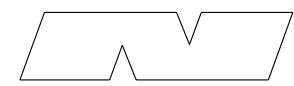
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WIRE CONFIGURATION IS IDENTICAL AT BOTH ENDS. PIN NUMBERS AT FEMALE END ARE CONNECTED TO THE SAME PIN NUMBERS AT MALE END.

NOTES:

1. OIL RESISTANT YELLOW PVC JACKET, 18 AWG WIRING. RIGHT ANGLE FEMALE, STRAIGHT MALE, METAL COUPLING NUT.
2. "XXX" IN CABLE PART NUMBER INDICATES SPECIFIC LENGTH, IN INCHES, OF INDIVIDUAL CABLES. (EX. 22311212-048 IS A CABLE ASSEMBLY 48" IN LENGTH)
3. CABLES ARE DEFINED BY THIS DOCUMENT AND HAVE NO INDIVIDUAL DRAWINGS. PART MUMBER INDICATES GENERAL CABLE CONFIGURATION AND INCLUDED LENGTH.

CUSTOMARY: ALL DIMENSIONS IN INCHES	 NORDCO -NORDBERG Equipment		
	DRAWN: MKS/BW	CHECKED:	
	DATE: 11/17/97	APPROVED:	
	PRODUCT: ALL RAILWAY		
IMPLIED TOLERANCES Finished Dimensions	DESCRIPTION: CABLE, PROX. SWITCH (EUROFAST)		
DECIMAL INCH	SIZE	SCALE	DRAWING CODE NUMBER
FRACTION : 1/8 .X : .06 .XX : .03 .XXX : .010	B	FULL	2231 1212 -
250 MACHINE FINISH UNLESS OTHERWISE STATED	ASSEMBLY: 9668 0260		SHEET 1 OF 1
PLANE ANGLES : ONE DEGREE			

MF	REV	CHANGE	BY: DATE:	ENG. ORDER #
			MKS 11-18-97	51547

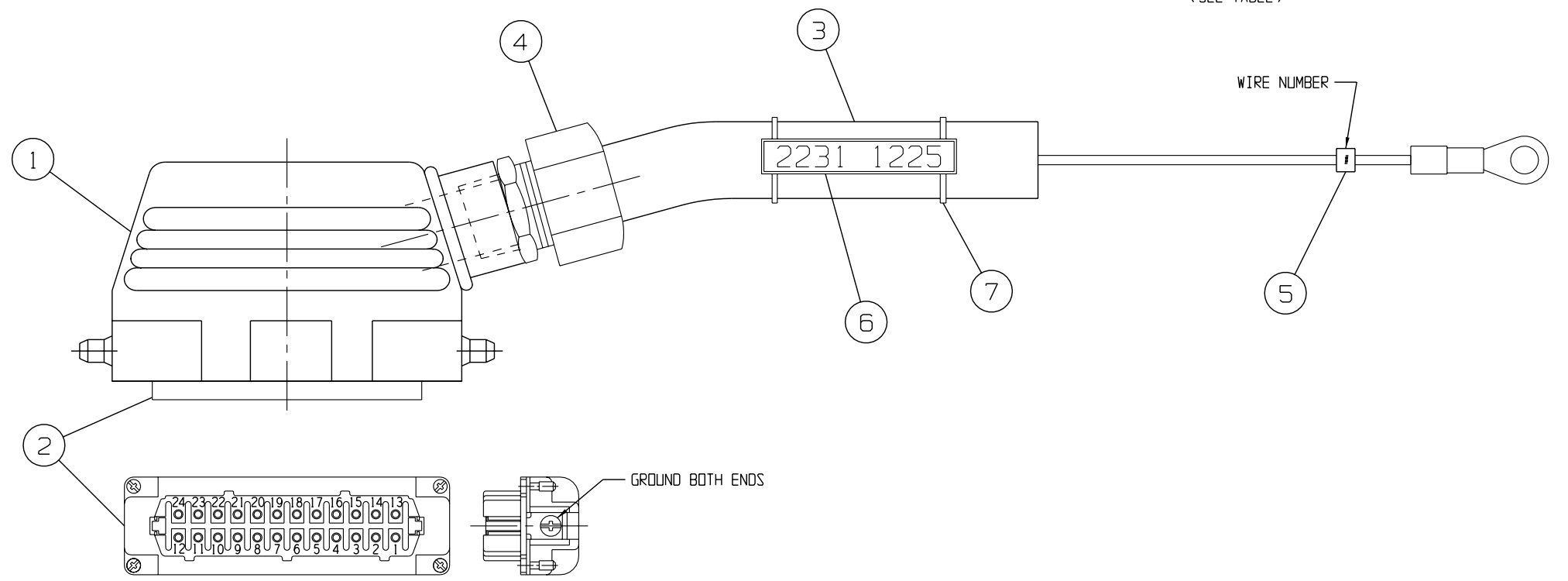
SURFACE PREPARATION:
WELD SLAG AND SPATTER TO BE REMOVED. ENTIRE UNIT THEN CLEANED AND APPROPRIATELY PRIME-PAINTED ONE COAT.

LIST OF MATERIALS				
ITEM NO.	PART NUMBER OR MATERIAL	QTY.	UNIT	PART NAME
1	5159 200	1		HOOD, CABLE T&B POS-E-KON #SH624
2	5159 150	1		INSERT, CONNECT FEMALE T&B POS-E-KON #FS-124
3	-	1		CABLE, 25 CONDUCTOR 14 AWG BLK ANIXTER 2A-1425
4	5103 818	1		CORD GRIP CROUSE-HINES #CGB297
5	-	25		WIRE MARKER
6	-	1		P/N LABEL, FASTAGS MINIATURE MARKER TECH PRODUCTS INC
7	-	2		TIE STRAP
8	-	23		TERMINAL, WIRE VACO #91304 16-14GA x #4
9	-	1		TERMINAL, WIRE VACO #91338 16GA x 3/8

WIRE TABLE

CONNECTOR J9 PIN #	WIRE NUMBER	WIRE COLOR	LENGTH "A"	TERMINATION*
1	10	-	25-1/2"	91304
2	15	-	25-1/8"	91304
3	17	-	24-3/4"	91304
4	19	-	24-3/8"	91304
5	237	-	16-3/4"	91304
6	238	-	21-5/8"	91304
7	43	-	24"	91304
8	44	-	23-5/8"	91304
9	45	-	23-1/8"	91304
10	46	-	22-3/4"	91304
11	96	-	22-3/8"	91304
12	97	-	22"	91304
13	202	-	20-7/8"	91304
14	204	-	20-1/2"	91304
15	205	-	21-1/4"	91304
16	211	-	20-1/8"	91304
17	229	-	19-3/4"	91304
18	230	-	19-3/8"	91304
19	231	-	19"	91304
20	232	-	18-5/8"	91304
21	233	-	18-1/4"	91304
22	234	-	17-7/8"	91304
23	235	-	17-1/2"	91304
24	236	-	17-1/8"	91304
GND	2	-	8"	91338

* VACO P/N (OR EQUAL)



(SEE TABLE)

(REF.: Main Operator Box 9668 0366)

S/N680273 +

S/N680265, 67, 70-2

WIRE 238 WAS 30	MKS	51972
WIRE 205 WAS 201	01-17-01	
WIRE #201 WAS #205, 30 WAS	LOW	
ADDED LGTH+TERMINALS	4-13-00	
ADDED ITEMS 889	LOW	
INSERT, FEMALE FS124	4-12-00	
WAS INSERT, MALE #S224	LOW	
CORD GRIP #C6297 WAS	03-17-00	
CORD GRIP #C6298	LOW	
CABLE WAS BELDEN	03-08-00	
NO. 273240S	SWA	
NEW ISSUE	02-18-00	51851

CUSTOMARY:
ALL DIMENSIONS IN INCHES

NORDCO Equipment

DRAWN: SWA DATE: 02-18-00 CHECKED: APPROVED:

PRODUCT: ANCHOR APPLICATOR

DESCRIPTION: ASSY HARNESS TRAVEL BOX

SIZE: FULL SCALE DRAWING CODE NUMBER: 2231 1225 E

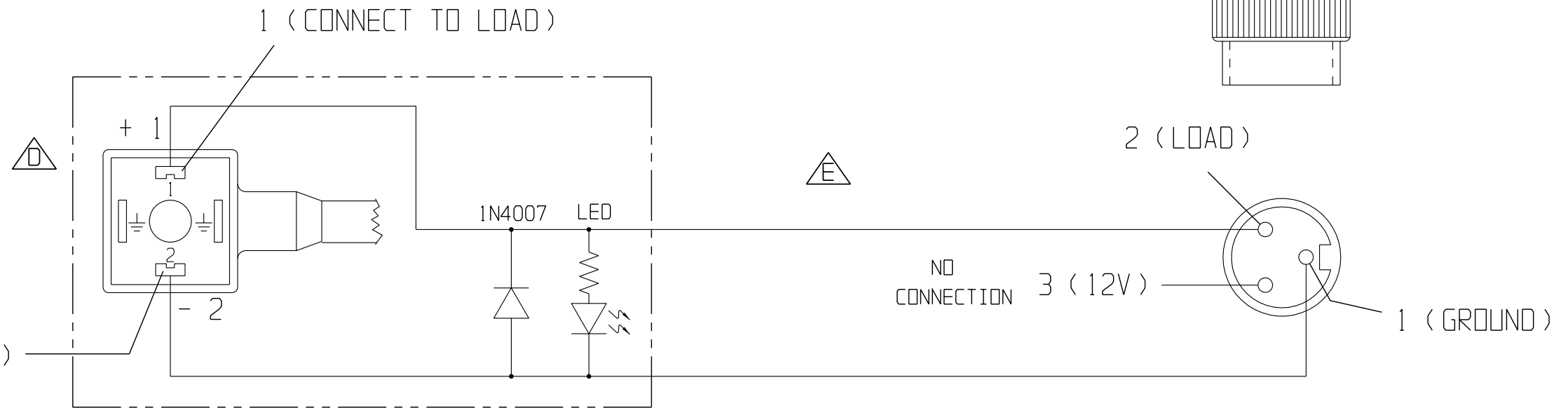
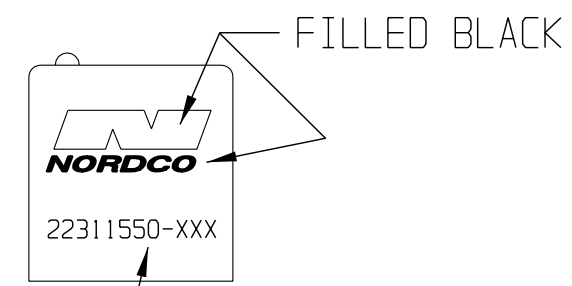
ASSEMBLY: 9668 0260 SHEET 1 OF 1

IMPLIED TOLERANCES	Finished Dimensions
DECIMAL INCH	FRACTION
.X	: 1/8
.XX	: .06
.XXX	: .03
	: .010
250	MACHINE FINISH UNLESS OTHERWISE STATED
PLANE ANGLES	: ONE DEGREE

NO. 2231 1550

1/1

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NOTE:

1. CORDSET WITH GREY DIN PLUG, OIL RESISTANT GREY PUR JACKET CABLE, GROUNDED TERMINALS, 3 PIN MINIFAST MALE PLUG, 90° MALE COUPLING NUT, 1N4007 SUPPRESSION DIODE AND LED.
2. "XXX" IN CABLE PART NUMBER INDICATES SPECIFIC LENGTH, IN INCHES, OF INDIVIDUAL CABLES. DIN CONNECTOR HEAD IS TO BE MARKED WITH THIS COMPLETE PART NUMBER. (EX. 22311550-048 IS A CABLE ASSEMBLY 48" IN LENGTH)
3. CABLES ARE DEFINED BY THIS DOCUMENT AND HAVE NO INDIVIDUAL DRAWINGS. PART NUMBER INDICATES GENERAL CABLE CONFIGURATION WITH INCLUDED LENGTH.

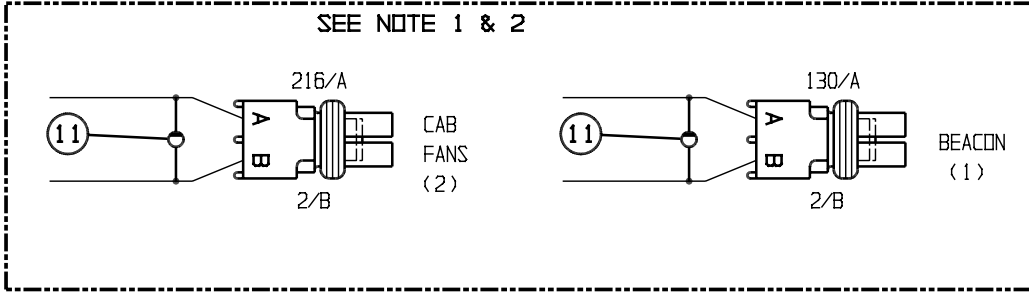
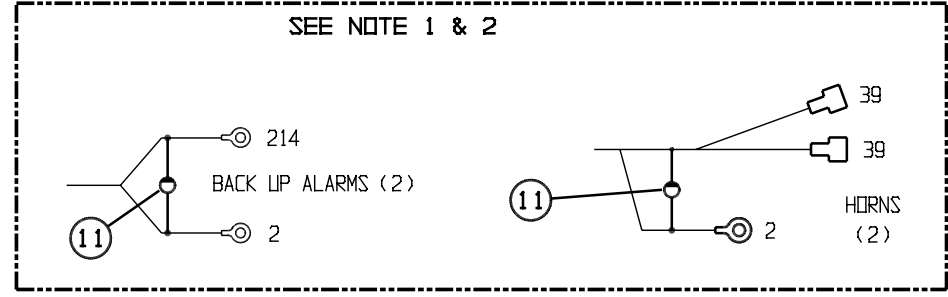
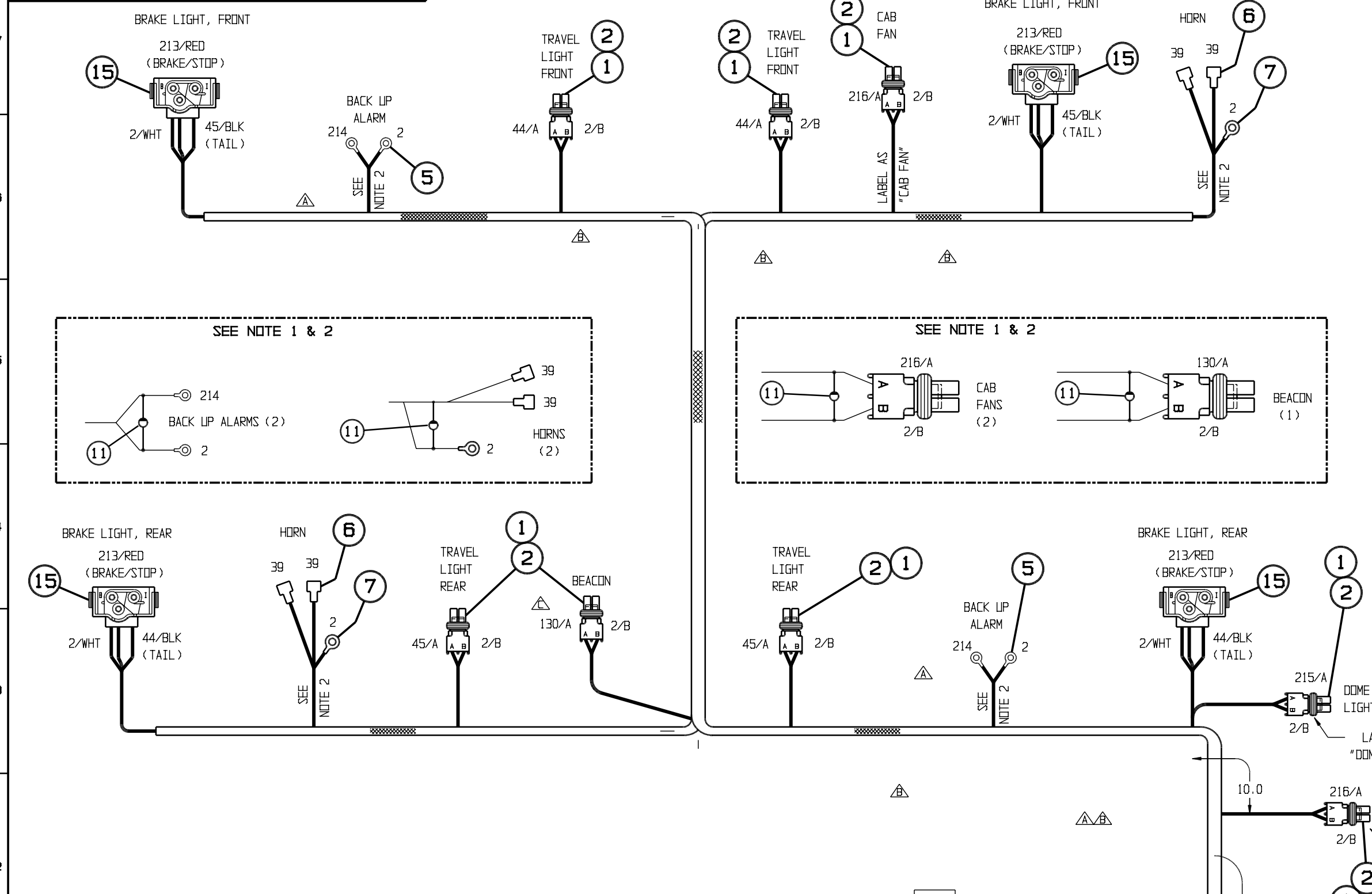
REF: TURCK #VAS22-F669-*M-WSM30-S661

CUSTOMARY: ALL DIMENSIONS IN INCHES	 NORDCO Equipment		
	DRAWN: LCP DATE: 10/11/96	CHECKED: APPROVED:	
IMPLIED TOLERANCES Finished Dimensions	PRODUCT: MODEL C, M3-B, TTSS		
DECIMAL INCH	DESCRIPTION: MANIFOLD DIN CABLE		
.X : .1 .XX : .06 .XXX : .010	SIZE	SCALE	
250/ MACHINE FINISH UNLESS OTHERWISE STATED	B	FULL	DRAWING CODE NUMBER 2231 1550
	ASSEMBLY: -		REV. E
PLANE ANGLES : ONE DEGREE	SHEET 1 OF 1		

MF	REV	CHANGE	BY: DATE:	ENG. ORDER #
		COMPLETED SCHEMATIC FOR CLARITY	JLE 09-05-00	NONE
(M)	(D)	NOTE 1: PUR JACKET WAS PVC PLUG FACE CONNECTION REVISED REF DWG UPDATED	SWA 01-10-00	NONE
(M)	(C)	PVC JACKET IN NOTE #1 WAS PUR JACKET	LCP 8/12/97	51486
(M)	(B)	REMOVED FLAG TAG	LCP 2/28/97	51402
(M)	(A)	NEW ISSUE	LCP 1/23/97	51373

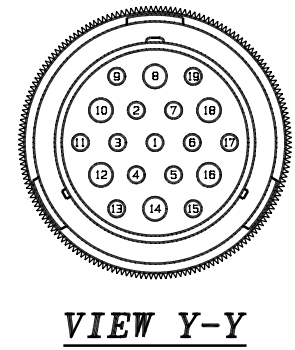
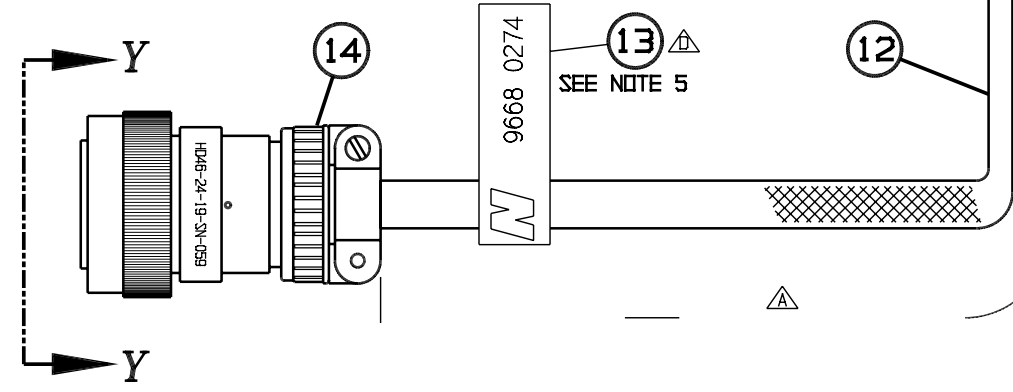
LIST OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	U	PART NAME	DWG. SIZE
1	5166 782	16		SLEEVE, FEMALE PACKARD #12034051	
2	5166 782	8		CONNECTOR, TWO WAY TOWER PACKARD #12015792	
3					
4					
5		4		#10 RING ETC #BB-837-10	
6		4		FULLY INSULATED FASTON ETC #BB-2263 DR EQ.	
7		2		5/16 RING ETC #BB-825-56	
8					
9					
10		AR		1/4 POLYOLEFIN HEAT SHRINK TUBING 1.0 FT.	
11		7		DIODE (MOTOROLA #1N5624)	
12		AR		YELLOW BRADING MATERIAL 33 FT.	
13	4738 0100	1		PANLUIT T400X000VXIY	
14		1		PLUG DEUTSCH #HD46-24-19-SN-059	
15	5166 789	4		PLUG, DBL CONTACT, DOMINION AUTO #764109	
16					

- NOTES:
- DIODE, ITEM #11, IS TO BE USED ONLY WHEN WIRE #2 IS PAIRED WITH WIRE NO.'S: 55, 56, 61 & 98. THIS DIODE IS TO BE SOLDERED BETWEEN THE WIRE PAIRS AND COVERED WITH HEAT SHRINK TUBING, ITEM #10. ALL OTHER WIRES DO NOT REQUIRE A DIODE.
 - ALL NON-DIODE SPLICES SHOULD BE IN MAIN HARNESS BODY. DO NOT SPLICE ANY WIRES #55 & #56 & THEIR RESPECTIVE GROUND WIRES, #2, EXCEPT TO DIODES. SEE DRAWING EXAMPLES FOR LOCATION OF DIODES.
 - SEE WIRE CONNECTION CHART FOR SPECIFIC WIRE SIZING AND ROUTING.
 - DESIGNATIONS OF "A" OR "B" AT WIRE NUMBERS INDICATE POSITION IN PACKARD CONNECTOR.
 - HARNESS IS TO BE IDENTIFIED WITH CORRESPONDING NORDCO PART NUMBER PRINTED ON PANLUIT THERMAL TAPE AND ASSEMBLED AS NEAR AS POSSIBLE TO THE MAIN CONNECTOR. TAPE WIDTH IS 1"; TAPE LENGTH TO BE DETERMINED BY THE HARNESS DIAMETER.



WIRE CONNECTION LIST

CONNECTOR PIN POSITION	COLOR	GAUGE	No.	FUNCTION
1	BLACK	16	213	BRAKE LIGHTS
6	BLACK	16	130	BEACON/STROBE
7	BLACK	16	214	BACKUP ALARM
8	BLACK	14	215	DOMESTIC LIGHT
9	BLACK	16	216	CAB FANS
10	BLACK	12	2	HORNS GROUND
12	BLACK	12	44	FRONT TRAVEL/REAR MARKER LIGHTS
14	BLACK	10	2	GROUND
16	BLACK	12	39	HORNS
18	BLACK	12	45	REAR TRAVEL/FRONT MARKER LIGHTS



ITEM 3 TEFELON TUBING REMOVED ITEM 13 WAS FASTAG PWF HELPER NOTE 3 WAS TEFELON TUBING... NOTE 6 WAS ATTACH FASTAG...	SWA 08-02-06	53844	CUSTOMARY: ALL DIMENSIONS IN INCHES		THIRD ANGLE PROJECTION
STROBE WIRE WAS #212	MKS 07-31-02		IMPLIED TOLERANCES		PRODUCT: ANCHOR APPLICATOR "E"
MOVE 5 ITEMS 1"-2"	MKS 07-25-99	51790	FRACTION: 1/8 .X .XX .XXX	DESCRIPTION: CANOPY HARNESS	
144.0 WAS 156.0	MKS 08-08-97	51484	SIZE SCALE	DRAWING CODE NUMBER	
NEW ISSUE	MKS 05-15-97	51363	PLANE ANGLES +/- 1°	REV. D NTS 9668 0274 D	
DATE:	DATE:	E.C.D. #	ASSEMBLY: 9668 0261	SHEET 1/1	

NO. 9668 0278

SHEET NO. 1/1

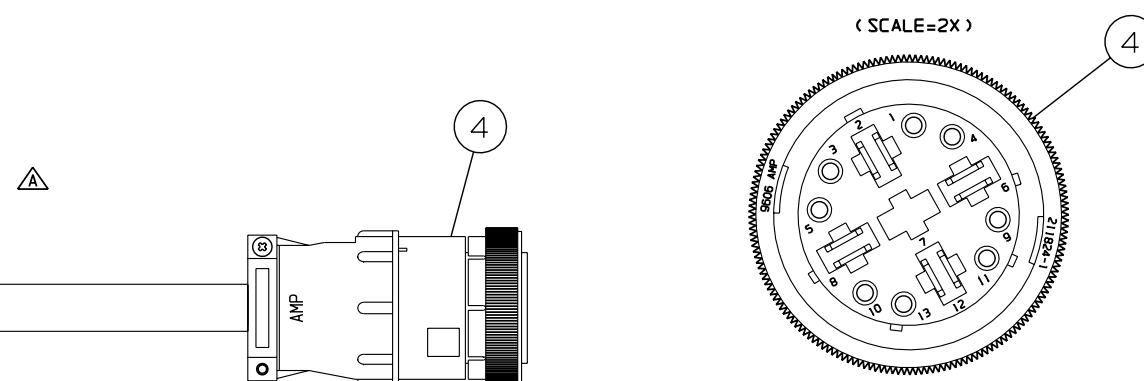
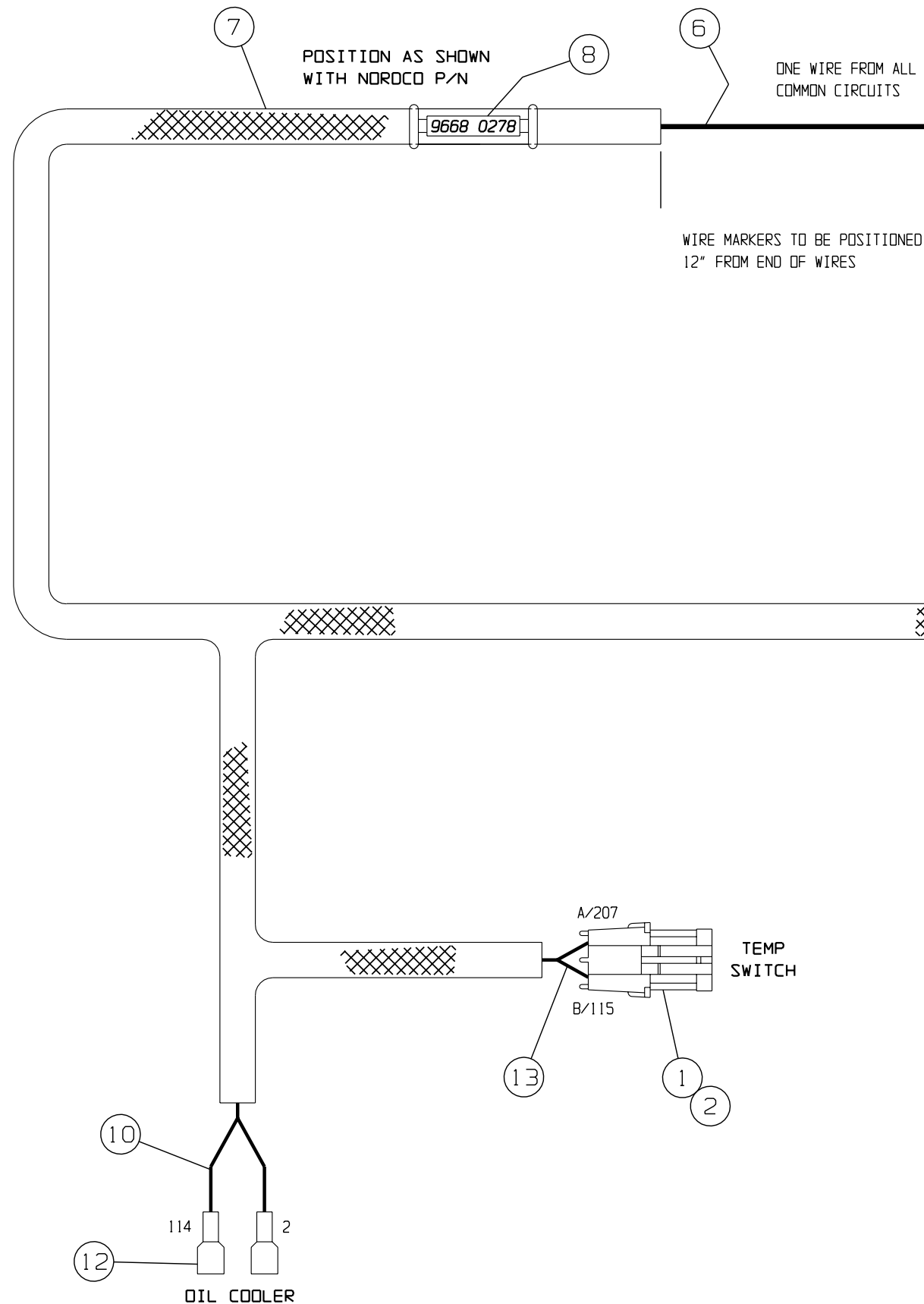
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BILL OF MATERIALS

ITEM NO.	PART NUMBER	QTY. REQ.	PART NAME	DWG. SIZE
1	5166 772	1	CONNECTOR, TWO WAY SHROUD PACKARD #12010973	
2	5166 782	2	PIN, MALE PACKARD #12033674	
3	2231 1560	1	DIN CABLE-TURCK #VAG21-10.048-5 W/SUPPRESSION	
4	5168 010	1	PLUG CONNECTOR ASSEMBLY	B
5		AR	TEFLON TUBING	
6		15	ELECTROVERT WIRE TAG	
7		AR	YELLOW BRADING MATERIAL 25.5 FT.	
8		1	FASTTAG PHF HOLDER	
9		AR	16 AWG SXL WIRE BLACK	
10		AR	12 AWG SXL WIRE BLACK	
11		AR	8 AWG SXL WIRE BLACK	
12	5166 693	2	DISCONNECT, FEMALE TERMINAL SUPPLY #B-850	
13		AR	14 AWG SXL WIRE BLACK	

NOTE:

1. ALL WIRE SPLICES TO BE IN THE HARNESS BODY.
2. ALL BREAKOUTS ARE TO BE PROTECTED WITH TEFLON TUBING (ITEM 5).
3. WIRING FROM OIL COOLER TO BE #12 AWG WIRE. ALL REMAINING WIRES TO BE #16 AWG.
4. PACKARD CONNECTOR POSITIONS "A" OR "B" ARE INDICATED WITH WIRE NUMBERS.
5. ATTACH FASTAG HOLDER WITH TWO BLACK TIE WRAPS.
6. PACKAGE AND ATTACH DIN CONNECTOR HARDWARE AND GASKET TO HARNESS.



WIRE CONNECTION LIST

WIRE NO.	GAUGE	FUNCTION	CONNECTOR PIN POSITION
11	14	TEMP SENSOR	1
3 RED	8	POWER	2
14	14	AUTO SHUTDOWN	3
99	14	STARTER SOLENOID	4
13	14	OIL PRESSURE SENDER	5
2 GREEN	8	GROUND	6
2 GREEN	8	GROUND	8
16	14	TACHOMETER	9
17	14	HI SPEED SOLENOID	10
12	14	FUEL SOLENOID	11
3 RED	8	POWER	12

PUMP WIRE #	DIN #	FUNCTION
211	1	PUMP DESTROKE
2	2	GROUND

CUSTOMARY: **NORDCO** -NORDBERG Equipment

ALL DIMENSIONS IN INCHES

DRAWN: LCP APPROVED: DATE: 3/27/97

IMPLIED TOLERANCES: Finished Dimensions

CHECKED: DATE: PRODUCT: ANCHOR APPLICATOR E

DESCRIPTION: ENGINE/COOLER/TEMP SWITCH PUMP HARNESS

DECIMAL INCH: .XX ±.06, .XXX ±.010

250 MACHINE FINISH UNLESS OTHERWISE STATED

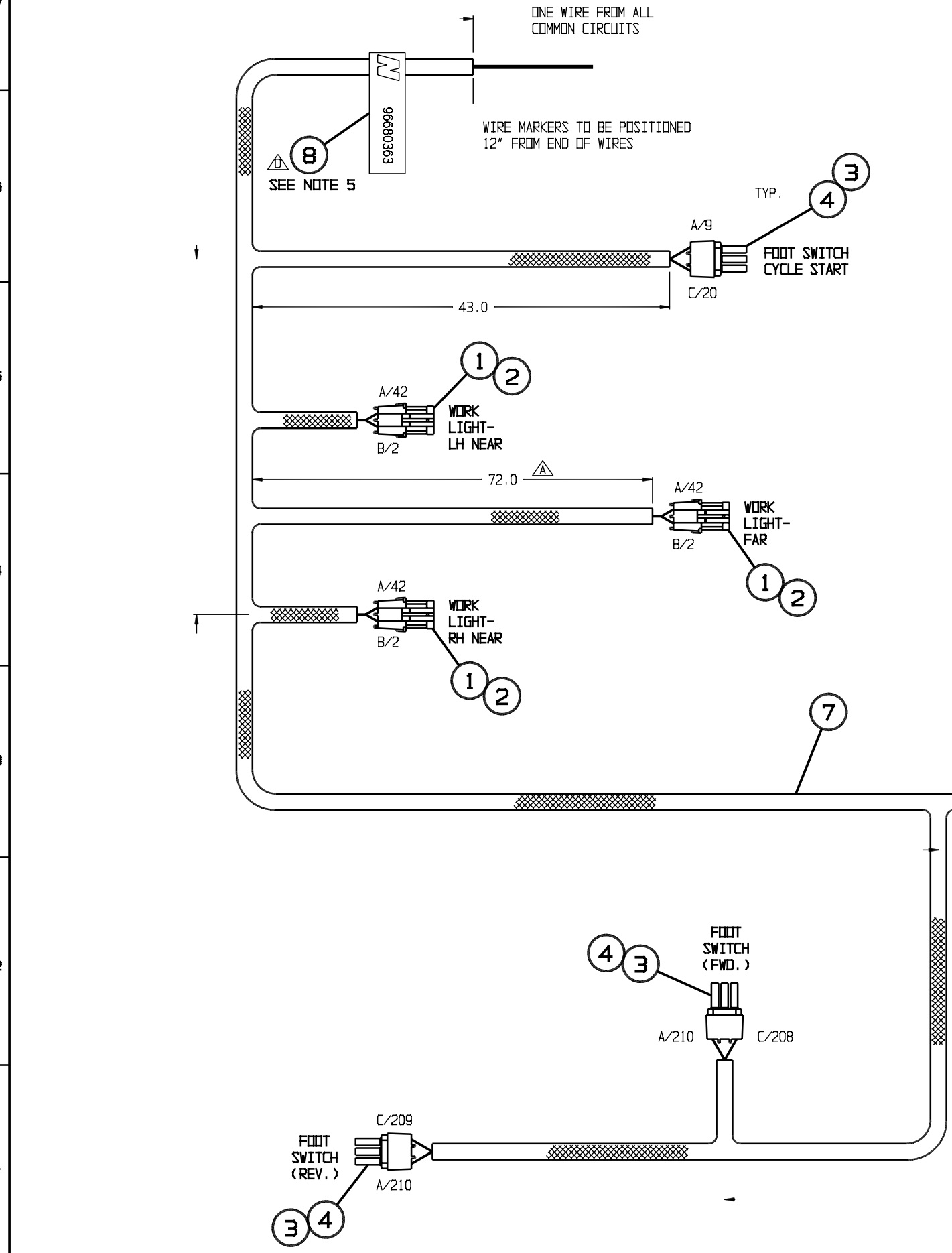
PLANE ANGLES: ±ONE DEGREE

SIZE SCALE: FULL 9668 0278 A

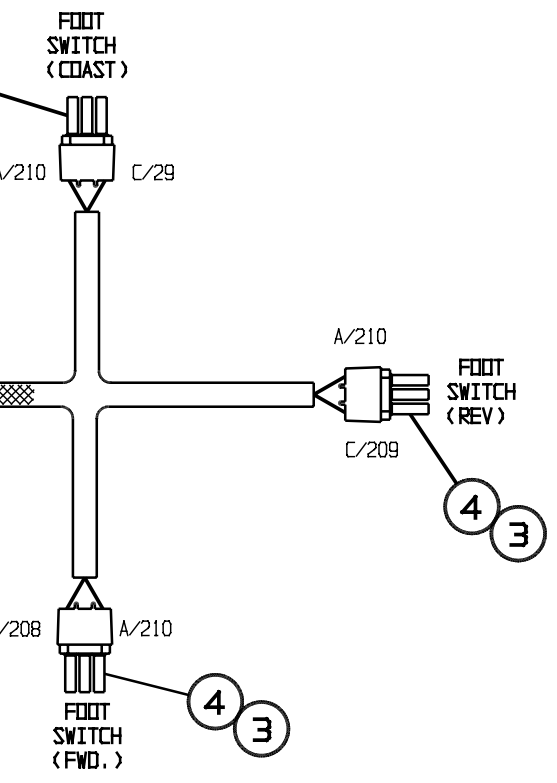
REV	CHANGE	BY	DATE	ENG. ORDER #
1	REVISED PUMP & ENGINE CONNECTOR BREAKOUT LGTHS 26 WAS 20, 30 WAS 42	LCP	6/1/97	51509
2	PRE-PRODUCTION RELEASE	LCP	8/1/97	51398

SURFACE PREPARATION: WELD SLAG AND SPATTER TO BE REMOVED. ENTIRE UNIT THEN CLEANED AND APPROPRIATELY PRIME-PAINTED ONE COAT.

LIST OF MATERIALS			
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	PART NAME
1	5166772	3	CONNECTOR, TWO WAY SHROLD PACKARD #12010973
2	5166782	6	PIN, MALE PACKARD #12089040
3	5166763	6	CONNECTOR, THREE WAY TOWER PACKARD #12015793
4	5166783	12	SLEEVE, FEMALE PACKARD #12089188
5			
6		26	ELECTROVERT WIRE TAG
7		AR	YELLOW BRAIDING MATERIAL
8	47380100	1	PANDUIT T400X000VXIY
9		AR	14 AWG BLACK SXL WIRE



- NOTE:**
1. ALL WIRE SPLICES TO BE IN THE HARNESS BODY.
 2. HARNESS IS TO BE IDENTIFIED WITH CORRESPONDING NORDCO PART NUMBER PRINTED ON PANDUIT THERMAL TAPE AND ASSEMBLED AS NEAR AS POSSIBLE TO THE MAIN CONNECTOR. TAPE WIDTH IS 1"; TAPE LENGTH TO BE DETERMINED BY THE HARNESS DIAMETER.
 3. ATTACH WIRE NUMBER LABELS (ITEM 6) AT ALL CONNECTORS AND AT THE NON-CONNECTED END.



CUSTOMARY: ALL DIMENSIONS IN INCHES		NORDCO THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES		DESCRIPTION:	
FRACTION ± 1/8		OPERATOR HARNESS	
.X ± .06		SIZE	SCALE
.XX ± .03		DRAWING CODE NUMBER	
.XXX ± .010		REV.	
250 / MACHINE FINISH UNLESS OTHERWISE STATED		D NTS 96680363 B	
PLANE ANGLES ± 1°		ASSEMBLY: 96680366 SHEET 1/1	