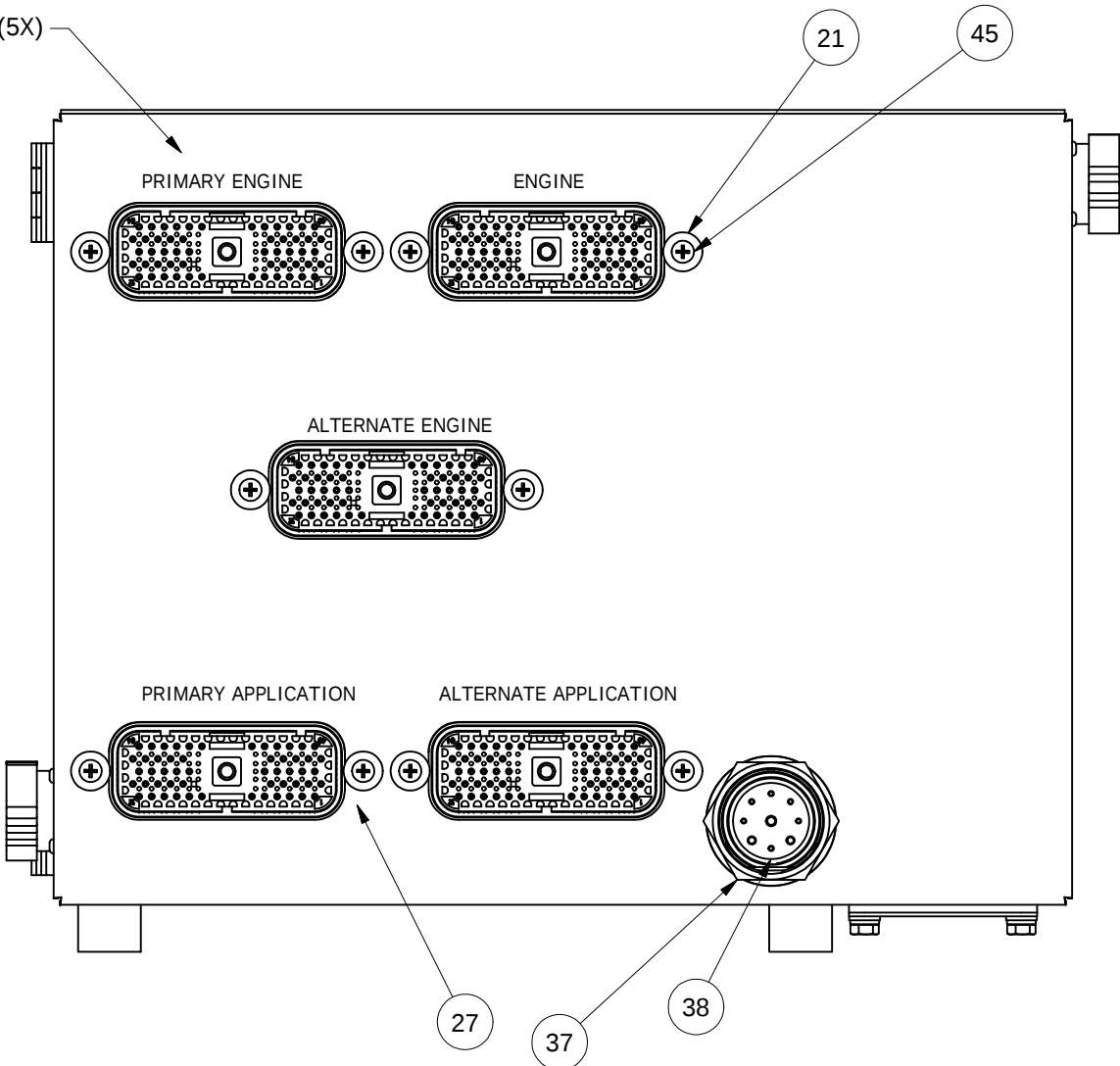
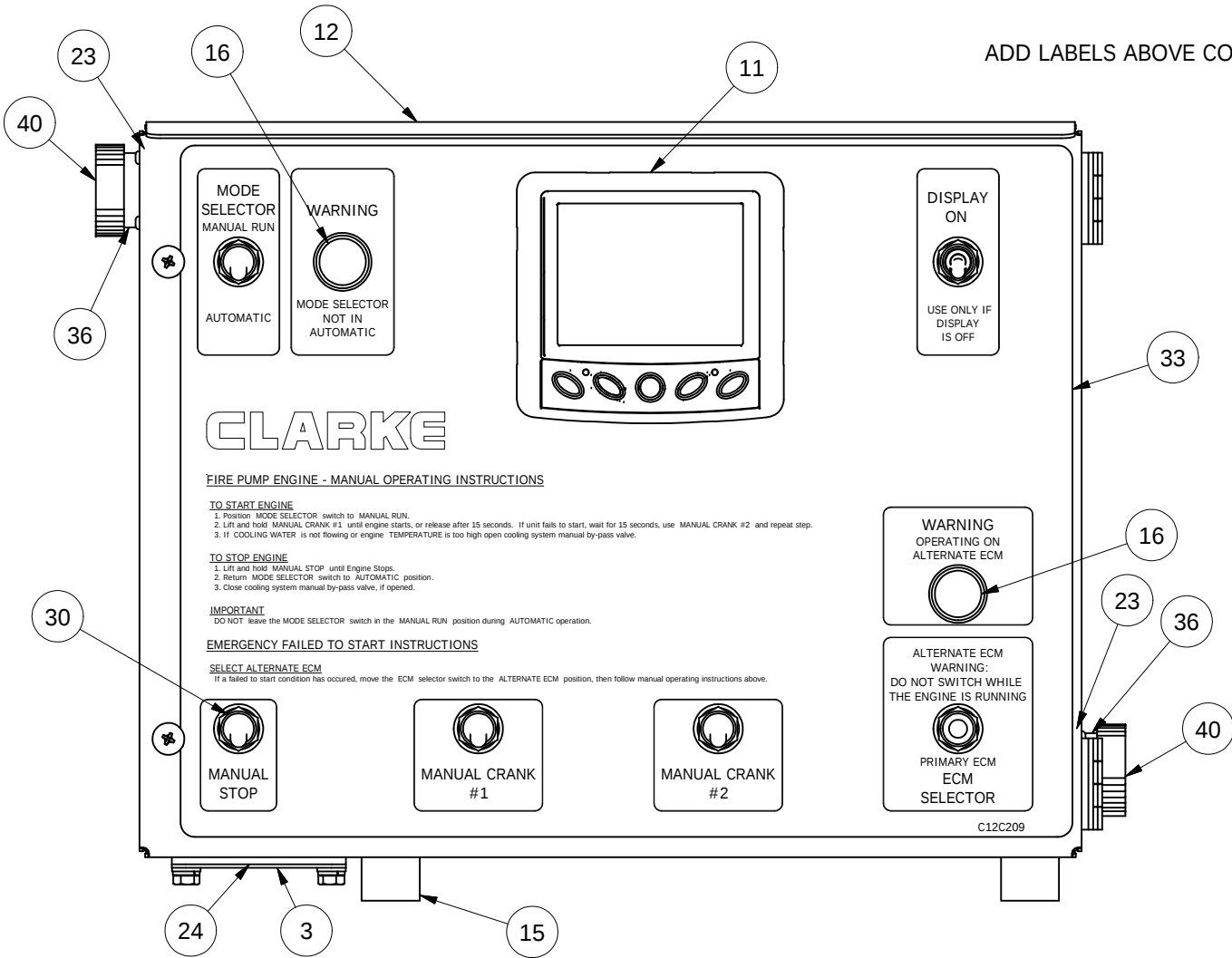


REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	ISSUED ENGINEERING DRAWING	5098	MJD	<i>MJD</i>	01MAY18



ITEM	CLARKE P/N	QTY	DESCRIPTION
3	C071227	1	COVER, BOTTOM FACE
11	C072670	1	POWerview PV380
12	C072735	1	ASSM, FABRICATED INSTRUMENT PANEL BOX T3 PV380
15	C07589	4	ISOLATOR
16	C07945	2	LAMP, PILOT, 24V
19	C10438	2	BRACKET, HARNESS SUPPORT
21	C125810	10	RUBBER CUP WASHER
23	C126005	2	GASKET, DIAGNOSTIC CONNECTOR
24	C126007	1	GASKET, GLAND PLATE

ITEM	CLARKE P/N	QTY	DESCRIPTION
27	C126026	5	GASKET, 54 PIN CONNECTOR
30	C12881	12	BOOT, TOGGLE SWITCH
33	C12C209	1	OPERATING INSTRUCTION LABEL, TIER 3 INSTRUMENT PANEL - PV380
36	HD10-9-96P	2	9 PIN CONNECTOR
37	112263-90	1	NUT
38	HD34-24-9PN	1	9 PIN CONNECTOR
39	112264	1	COILED LOCK WASHER
40	HDC16-9	2	DUST CAP, GRAY
45	---	10	BUTTON HEAD SCREW, #10-32 X 1"

CONTROLLED DRAWING

THIS IS A REGISTERED PART WITH A THIRD PARTY AGENCY FOR USE ON A PRODUCT. NO SUBSTITUTIONS ARE ALLOWED. CONSULT ENGINEERING PRIOR TO AND REGARDING ANY CHANGE.

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☒ YES ☐ NO

CONTROLLED DRAWING

CLARKE

Fire Protection Products, Inc.

DRWN: MJDEMBKOWSKI

DATE: 20NOV14

ENGR: MJDEMBKOWSKI

MATERIAL: AS NOTED

ASSEMBLY:

SIMILAR TO: C072120-C072121

NAME: INSTRUMENT PANEL, 24V CATERPILLAR

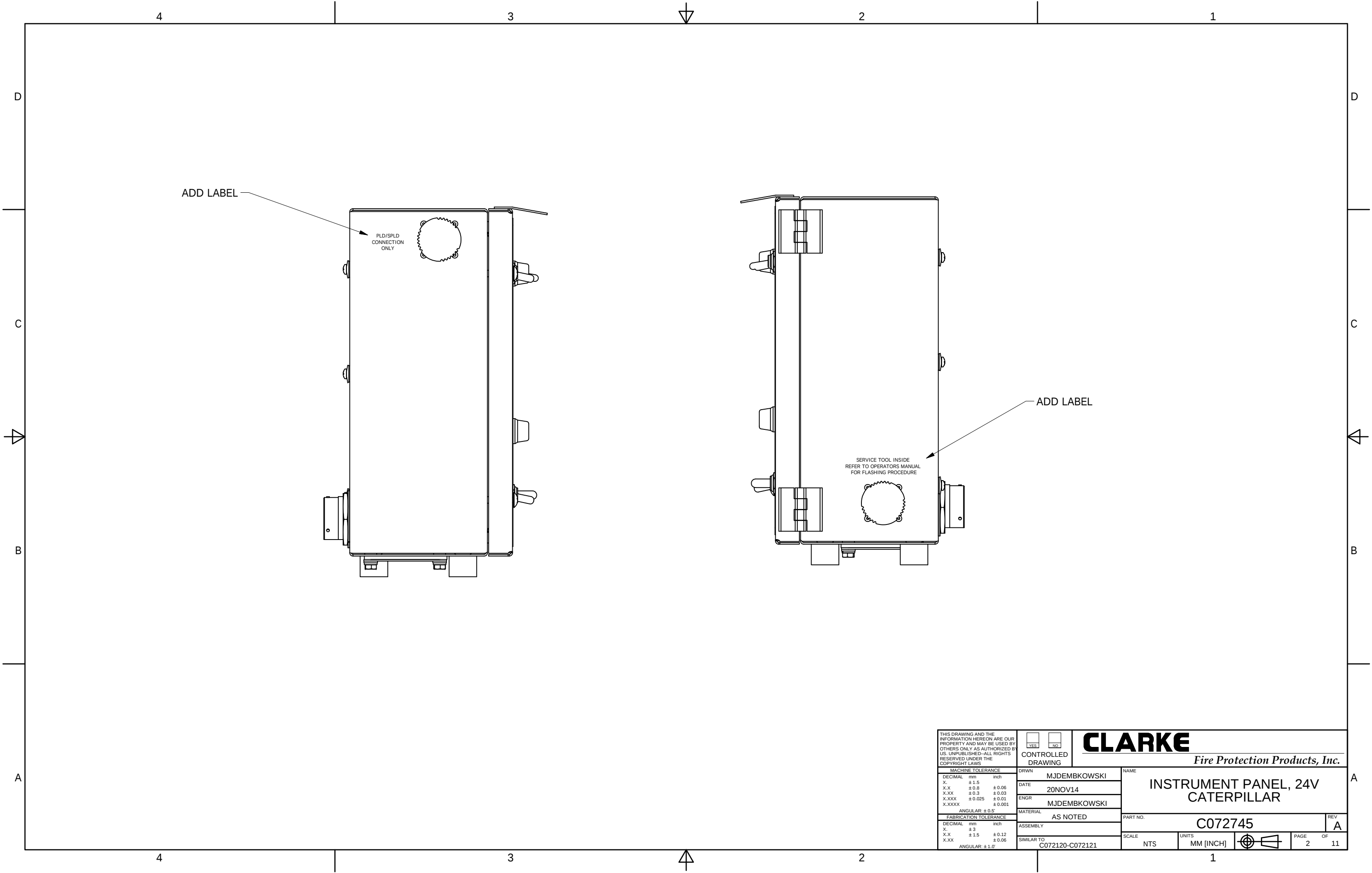
PART NO: C072745

REV: A

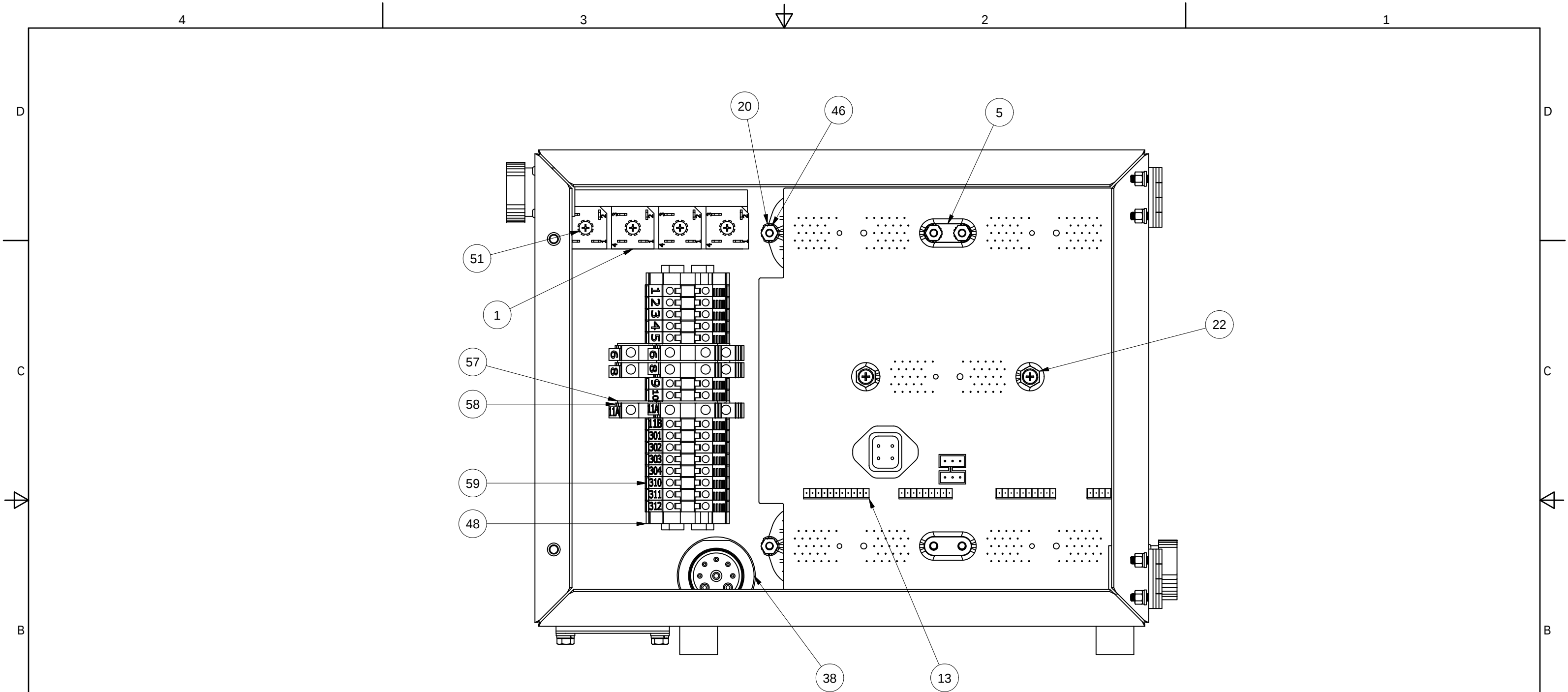
SCALE: NTS

UNITS: MM [INCH]

PAGE 1 OF 11



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			CONTROLLED DRAWING				
MACHINE TOLERANCE			DRWN MJDEMBKOWSKI		NAME INSTRUMENT PANEL, 24V CATERPILLAR		
DECIMAL mm inch			DATE 20NOV14				
X. ±1.5			ENGR MJDEMBKOWSKI				
X.X ±0.8 ±0.06			MATERIAL AS NOTED				
X.XX ±0.3 ±0.03							
X.XXX ±0.025 ±0.01			PART NO. C072745		REV A		
X.XXXX ±0.001			ASSEMBLY		SCALE NTS UNITS MM [INCH]  PAGE 2 OF 11		
ANGULAR: ±0.5°			SIMILAR TO C072120-C072121				
FABRICATION TOLERANCE							
DECIMAL mm inch							
X. ±3							
X.X ±1.5 ±0.12							
X.XX ±0.06							
ANGULAR: ±1.0°							



ITEM	CLARKE P/N	QTY	DESCRIPTION
1	C071007	4	RECTIFIER DIODE
5	C071477	2	SPACER, SUPPORT BRACKET MOUNTING PLATE
13	C072817	1	SWITCHBOARD, MESB, CATERPILLAR
20	C125790	10	TERMINAL CUP WASHER
22	C125822	2	SPACER, 1/2" HEX, 10-32 X 2.5" LG.
38	HD34-24-9PN	1	9 PIN CONNECTOR
39	112264	1	COILED LOCK WASHER
48	1061200000_15292_WEW-35-2	2	END STOP
51	ANSI B18.6.3 - No. 10 - 32 - 3/4	4	Cross Recessed Fillister Head Machine Screw - Type I
57	WAP WDK10	3	PARTITION (WAP WDK 10)
58	WDK 10V	3	TERMINAL, DOUBLE TIER (WDK 10V)
59	WDU_6_SL-EN_9537470000	15	WDU 6 SL/EN - FEED THROUGH TERMINAL

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YES

NO

CONTROLLED DRAWING

DRWN

MJDEMBKOWSKI

DATE

20NOV14

ENGR

MJDEMBKOWSKI

MATERIAL

AS NOTED

ASSEMBLY

SIMILAR TO

C072120-C072121

NAME

INSTRUMENT PANEL, 24V CATERPILLAR

PART NO.

C072745

REV

A

SCALE

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UNITS

MM [INCH]

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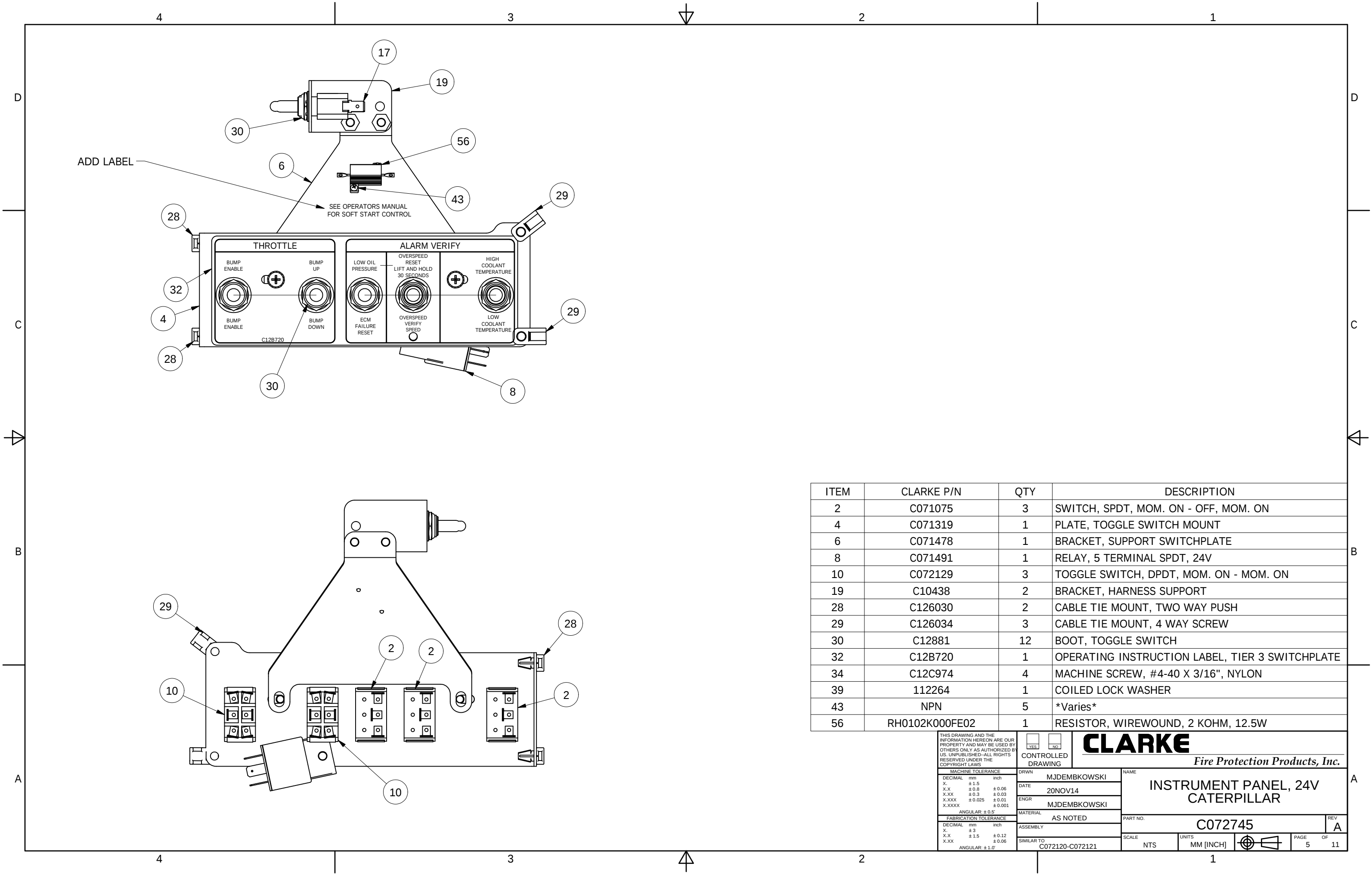
4

OF

11

CLARKE

Fire Protection Products, Inc.



ITEM	CLARKE P/N	QTY	DESCRIPTION
2	C071075	3	SWITCH, SPDT, MOM. ON - OFF, MOM. ON
4	C071319	1	PLATE, TOGGLE SWITCH MOUNT
6	C071478	1	BRACKET, SUPPORT SWITCHPLATE
8	C071491	1	RELAY, 5 TERMINAL SPDT, 24V
10	C072129	3	TOGGLE SWITCH, DPDT, MOM. ON - MOM. ON
19	C10438	2	BRACKET, HARNESS SUPPORT
28	C126030	2	CABLE TIE MOUNT, TWO WAY PUSH
29	C126034	3	CABLE TIE MOUNT, 4 WAY SCREW
30	C12881	12	BOOT, TOGGLE SWITCH
32	C12B720	1	OPERATING INSTRUCTION LABEL, TIER 3 SWITCHPLATE
34	C12C974	4	MACHINE SCREW, #4-40 X 3/16", NYLON
39	112264	1	COILED LOCK WASHER
43	NPN	5	*Varies*
56	RH0102K000FE02	1	RESISTOR, WIREWOUND, 2 KOHM, 12.5W

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			CONTROLLED DRAWING				
MACHINE TOLERANCE			DRWN	NAME			
DECIMAL mm inch			MJDEMBKOWSKI				
X. ±1.5			DATE	20NOV14			
X.X ±0.8 ±0.06			ENGR	MJDEMBKOWSKI			
X.XX ±0.3 ±0.03			INSTRUMENT PANEL, 24V CATERPILLAR				
X.XXX ±0.025 ±0.01							
X.XXXX ±0.001							
ANGULAR: ±0.5°			PART NO. C072745				
FABRICATION TOLERANCE							
DECIMAL mm inch			REV A				
X. ±3 ±0.12			ASSEMBLY				
X.X ±1.5 ±0.12			SCALE NTS				
X.XX ±0.8 ±0.06			UNITS MM [INCH]				
ANGULAR: ±1.0°							
			PAGE 5 OF 11				

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Wire #	Wire Color	Length	Wire AWG	Start Location	Start Terminal	Start Connector	End Location	End Terminal	End Connector	Splice Detail
L-701	GREY	6	16	18 BLOCK 1	ULTRA SONIC WELD		17 POST 1	BLUE FEMALE SLIP SPADE		
L-701B	GREY	10	16	18 BLOCK 1			30 POST 3	BLUE FEMALE SLIP SPADE		
L-701C	GREY	25	16	30 POST 2		BLUE FEMALE SLIP SPADE	25 PIN 1	60619-1	AMP 1-480270-0	
K-702	BROWN	9	16	18 BLOCK 2	ULTRA SONIC WELD		SPLICE	(SPLICE AT DIODE)		15
K-702A	BROWN	4	16	18 BLOCK 2			SPLICE	(SPLICE AT DIODE)		15
K-702C	BROWN	6	16	25 PIN 2		60619-1	AMP 1-480270-0	SPLICE	(SPLICE AT DIODE)	15
K-702D	BROWN	9	16	36 POST 85	BLUE FEMALE SLIP SPADE			SPLICE	(SPLICE AT DIODE)	15
K-702E	BROWN	4	16	17 POST 1	YELLOW FEMALE SLIP SPADE			SPLICE	(SPLICE AT DIODE)	15
G-703	BLUE	11	16	18 BLOCK 3	ULTRA SONIC WELD		30 POST 1	YELLOW FEMALE SLIP SPADE		14
G-703A	BLUE	25	16	30 POST 1	YELLOW FEMALE SLIP SPADE		25 PIN 3	60619-1	AMP 1-480270-0	14
C-704	ORANGE	19	16	18 BLOCK 4	ULTRA SONIC WELD		25 PIN 4	60619-1	AMP 1-480270-0	29
C-704A	ORANGE	19	16	18 BLOCK 4			36 POST 87a	BLUE FEMALE SLIP SPADE		29
G-705	BLUE	19	16	18 BLOCK 5	ULTRA SONIC WELD		25 PIN 5	60619-1	AMP 1-480270-0	
B-706A	RED	45	14	18 BLOCK 6-3	ULTRA SONIC WELD		9 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		1
B-706D	RED	11.5	10	18 BLOCK 6-3			19 PIN S	0460-204-08141	HD34-24-9PN	1
B-706B	RED	9	12	18 BLOCK 6-4			16 POST 3	YELLOW FEMALE SLIP SPADE		16
B-706C	RED	11	12	18 BLOCK 6-4	ULTRA SONIC WELD		15 POST 3	BLUE FEMALE SLIP SPADE		16
A-708A	WHITE	41	14	18 BLOCK 8-3	ULTRA SONIC WELD		8 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		2
A-708D	WHITE	11	10	18 BLOCK 8-3			19 PIN U	0460-204-08141	HD34-24-9PN	2
A-708B	WHITE	11	12	18 BLOCK 8-4			16 POST 1	YELLOW FEMALE SLIP SPADE		17
A-708C	WHITE	12	12	18 BLOCK 8-4	ULTRA SONIC WELD		15 POST 1	YELLOW FEMALE SLIP SPADE		17
D-709A	YELLOW	44	14	18 BLOCK 9	ULTRA SONIC WELD		9 BOTTOM RIGHT POST	YELLOW FEMALE SLIP SPADE		18
D-709B	YELLOW	10	14	18 BLOCK 9			19 PIN Z	0460-204-12141	HD34-24-9PN	18
E-710A	GREEN	40	14	18 BLOCK 10			8 BOTTOM RIGHT POST	90* YELLOW FEMALE SLIP SPADE		19
E-710B	GREEN	9.5	14	18 BLOCK 10	ULTRA SONIC WELD		19 PIN V	0460-204-12141	HD34-24-9PN	19
J-711A	BLACK	10	10	18 BLOCK 11A-3	ULTRA SONIC WELD		19 PIN R	0460-204-0490/0421-203-04141	HD34-24-9PN	20
J-711D	BLACK	15.5	16	18 BLOCK 11A-3			26 PIN B	0460-215--1631	HD10-9-96P	20
J-711E	BLACK	10	16	18 BLOCK 11A-3			17 POST 4	YELLOW FEMALE SLIP SPADE		20
J-711B	BLACK	13	12	18 BLOCK 11A-4	ULTRA SONIC WELD		24 PIN 3	0462-203-12141	DTP06-4S-E004	21
J-711C	BLACK	13	12	18 BLOCK 11A-4			24 PIN 4	0462-203-12141	DTP06-4S-E004	21
J-711F	BLACK	8.5	10	18 BLOCK 11B			SPLICE			20
E-474E	GREEN	14	18	18 BLOCK 302	ULTRA SONIC WELD		25 PIN 6	60619-1	AMP 1-480270-0	
G-312	BLUE	13	18	18 BLOCK 312	ULTRA SONIC WELD		22 PIN 7	1318912-1	1-1123722-0	
G-312A	BLUE	16	18	18 BLOCK 312	ULTRA SONIC WELD		14 TOP LEFT POST	90* RED FEMALE SLIP SPADE		
K-702B	BROWN	6	18	19 PIN W	0460-204-12141	HD34-24-9PN	SPLICE	(SPLICE AT DIODE)		15
C-310	ORANGE	7	18	19 PIN X	0460-204-12141	HD34-24-9PN	18 BLOCK 310	ULTRA SONIC WELD		
M-311	PURPLE	7	18	19 PIN Y	0460-204-12141	HD34-24-9PN	18 BLOCK 311	ULTRA SONIC WELD		
J-905D	BLACK	34	22-2	20 PIN 1	1318912-1	1-1123722-1	3A PIN 3	0462-201-16141	DT06-6S	25
A-904D	WHITE	34	shielded	20 PIN 2	1318912-1	1-1123722-1	3A PIN 2	0462-201-16141	DT06-6S	25
020D	SHIELD	34	wire	20 PIN 3	1318912-1	1-1123722-1	Cover Wie			25
J-905C	BLACK	12	22-2	20 PIN 4	1318912-1	1-1123722-1	26 PIN F	0460-202-16141	HD10-9-96P	
A-904C	WHITE	12	shielded	20 PIN 5	1318912-1	1-1123722-1	26 PIN G	0460-202-16141	HD10-9-96P	
020C	SHIELD	12	wire	20 PIN 6	1318912-1	1-1123722-1	26 PIN C	0460-202-16141	HD10-9-96P	
M-700A	PURPLE	33	18	20 PIN 7	1318912-1	1-1123722-1	8 BOTTOM LEFT POST	90* BLUE FEMALE SLIP SPADE		4
M-700B	PURPLE	8	18	8 BOTTOM LEFT POST	90* BLUE FEMALE SLIP SPADE		9 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE		4
B-743A	RED	30	18	20 PIN 8	1318912-1	1-1123722-1	33 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		22
B-743B	RED	12	18	20 PIN 9	1318912-1	1-1123722-1	26 PIN A	0460-202-16141	HD10-9-96P	
B-743C	RED	40	18	20 PIN 10	1318912-1	1-1123722-1	5 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		5
B-743D	RED	31.5	18	20 PIN 11	1318912-1	1-1123722-1	6 POST 2	90* BLUE FEMALE SLIP SPADE		
L-804A	GREY	28.5	16	21 PIN 6	1318912-1	1-1123722-9	6 POST 1	90* BLUE FEMALE SLIP SPADE		23
D-600	YELLOW*	11	18	21 PIN 7	1318912-1	1-1123722-9	26 PIN D	0460-202-16141	HD10-9-96P	
J-601	BLACK*	11	18	21 PIN 8	1318912-1	1-1123722-9	26 PIN E	0460-202-16141	HD10-9-96P	
E-602	GREEN	22	18	21 PIN 9	1318912-1	1-1123722-9	34 BOTTOM POST	BLUE FEMALE SLIP SPADE		
I-603	PINK	19	18	22 PIN 1	1318912-1	1-1123722-9	13 BOTTOM RIGHT POST	90* RED FEMALE SLIP SPADE		
C-923C	ORANGE	20	18	22 PIN 2	1318912-1	1-1123722-0	11 BOTTOM POST	90* BLUE FEMALE SLIP SPADE		9
C-923D	ORANGE	4	18	11 BOTTOM POST	90* BLUE FEMALE SLIP SPADE		11 TOP POST	90* RED FEMALE SLIP SPADE		9
E-955	GREEN	18	18	22 PIN 4	1318912-1	1-1123722-0	12 BOTTOM POST	90* RED FEMALE SLIP SPADE		
L-916	GREY	16.5	18	22 PIN 3	1318912-1	1-1123722-0	13 TOP RIGHT POST	90* RED FEMALE SLIP SPADE		
G-936	BLUE	19	18	22 PIN 5	1318912-1	1-1123722-0	12 TOP POST	90* RED FEMALE SLIP SPADE		
D-793B	YELLOW	16	18	22 PIN 6	1318912-1	1-1123722-0	13 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE		
M-917	PURPLE	16.5	18	22 PIN 8	1318912-1	1-1123722-0	31 BOTTOM POST	90* RED FEMALE SLIP SPADE		
A-918	WHITE	15	18	22 PIN 9	1318912-1	1-1123722-0	14 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE		
G-312A	BLUE	17	18	22 PIN 10	1318912-1	1-1123722-0	14 TOP RIGHT POST	90* RED FEMALE SLIP SPADE		
L-793	GREY	47	18	23 PIN 6	1318912-1	1-1123722-8	10 BOTTOM POST	90* RED FEMALE SLIP SPADE		26

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Location #	Location Description
1	Battery Selector Switch
2	Voltmeter Gauge
3	PV Diagnostic Gauge
3A	6 PIN PV Diagnostic Gauge
3B	12 PIN PV Diagnostic Guage
4	Manual Mode Warning Lamp
5	Auto/Manual Run Selector Switch
6	Alternate ECM Warning Lamp
7	ECM Selector Switch
8	Crank Switch 2
9	Crank Switch 1
10	Manual Stop Switch
11	Throttle Bump - Enable Switch
12	Throttle Bump - Up & Down Switch
13	Overspeed Reset & Overspeed Verify Swich
14	HI Water Temp & Low Water Temp Verify Switch
15	Battery Bridge 2
16	Battery Bridge 1
17	Coolant Bridge
18	Terminal Blocks
19	Power Harness Deutch Connector
20	White 11 Pin Connector
21	White 9 Pin Connector
22	White 10 Pin Connector
23	White 8 Pin Connector
24	Deutch 4 Pin Connector
25	White 6 Pin Connector
26	9 Pin Diagnostic Deutch Connector
27	SCB - 6 Pin Connector
28	SCB - 4 Pin Connector
29	9 Pin Deutch Coonector
30	Engine Run Signal Diode Bridge
31	Low Oil Pressure Verify/ECM Failure Reset
32	Auto Switching Base Module
33	Manual Display On Switch
34	Soft Start Switch
35	2K Ohm Rister
36	Oil Pressure Relay
37	Voltage Divider
38	Ground Stud
*	1" Twisted Wires

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	CONTROLLED DRAWING		DRWN	MJDEMBKOWSKI
			DATE	20NOV14
			ENGR	MJDEMBKOWSKI
			MATERIAL	AS NOTED
MACHINE TOLERANCE DECIMAL mm inch X. ±1.5 X.X ±0.8 ±0.06 X.XX ±0.3 ±0.03 X.XXX ±0.025 ±0.01 X.XXXX ±0.001 ANGULAR: ±0.5°		PART NO.		REV
FABRICATION TOLERANCE DECIMAL mm inch X. ±3 X.X ±1.5 ±0.12 X.XX ±0.08 ±0.06 ANGULAR: ±1.0°		C072745		A
SIMILAR TO C072120-C072121		SCALE	NTS	UNITS MM [INCH]
				PAGE 6 OF 11

4				3				2				1				
D	Wire #	Wire Color	Length	Wire AWG	Start Location	Start Terminal	Start Connector	End Location	End Terminal	End Connector	Splice Detail	Location #	Location Description			
	E-777	GREEN	43	18	23 PIN 8	1318912-1	1-1123722-8	5 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE			1	Battery Selector Switch			
	J-754A	BLACK	38	18	23 PIN 2	1318912-1	1-1123722-8	3A PIN 6	0462-201-16141	DT06-6S		2	Voltmeter Gauge			
	J-754C	BLACK	31	18	23 PIN 4	1318912-1	1-1123722-8	38	BLUE #10 RING		7	3	PV Diagnostic Gauge			
	J-754D	BLACK	16	18	23 PIN 5	1318912-1	1-1123722-8	36 POST 86	BLUE FEMALE SLIP SPADE		8	3A	6 PIN PV Diagnostic Gauge			
	J-754E	BLACK	4	18	36 POST 86	BLUE FEMALE SLIP SPADE		36 POST 30	BLUE FEMALE SLIP SPADE		8	3B	12 PIN PV Diagnostic Guage			
	J-754F	BLACK	4	18	36 POST 30	BLUE FEMALE SLIP SPADE		14 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		8	4	Manual Mode Warning Lamp			
	J-754G	BLACK	4	18	14 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		14 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		8	5	Auto/Manual Run Selector Switch			
	J-754H	BLACK	4	18	14 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		13 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		8	6	Alternate ECM Warning Lamp			
	J-754I	BLACK	4	18	13 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		13 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		8	7	ECM Selector Switch			
	J-754J	BLACK	4	18	13 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		31 MIDDLE POST	BLUE FEMALE SLIP SPADE		8	8	Crank Switch 2			
	J-754K	BLACK	4	18	31 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		12 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		8	9	Crank Switch 1			
	J-754L	BLACK	4	18	12 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		11 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		8	10	Manual Stop Switch			
	J-754M	BLACK	27	18	11 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		34 MIDDLE POST	BLUE FEMALE SLIP SPADE		8	11	Throttle Bump - Enable Switch			
	J-754N	BLACK	6	18	34 MIDDLE POST	BLUE FEMALE SLIP SPADE		35 SIDE B	SOLDER 2K OHM POWER RESISTER		8	12	Throttle Bump - Up & Down Switch			
	J-754P	BLACK	20	18	35 SIDE A	SOLDER 2K OHM POWER RESISTER		21 PIN 3	1318912-1	1-1123722-9	8	13	Overspeed Reset & Overspeed Verify Swich			
	J-754R	BLACK	15	18	10 MIDDLE POST	90* RED FEMALE SLIP SPADE		7 MIDDLE RIGHT POST	90* BLUE FEMALE SLIP SPADE		7	14	HI Water Temp & Low Water Temp Verify Switch			
	J-754S	BLACK	4	18	7 MIDDLE POST	BLUE FEMALE SLIP SPADE		7 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		7	15	Battery Bridge 2			
C	C-221	ORANGE	7	18	29 PIN A	0460-202-1631	HD10-9-96P	15 POST 2	YELLOW FEMALE SLIP SPADE		27	16	Battery Bridge 1			
	C-222	ORANGE	7	18	29 PIN B	0460-202-1631	HD10-9-96P	15 POST 2	YELLOW FEMALE SLIP SPADE		27	17	Coolant Bridge			
	J-223	BLACK	7	18	29 PIN C	0460-202-1631	HD10-9-96P	17 PIN 4	YELLOW FEMALE SLIP SPADE		28	18	Terminal Blocks			
	J-224	BLACK	7	18	29 PIN D	0460-202-1631	HD10-9-96P	17 PIN 4	YELLOW FEMALE SLIP SPADE		28	19	Power Harness Deutch Connector			
	E-225	GREEN	21	18	29 PIN E	0460-202-1631	HD10-9-96P	21 PIN 4	1318912-1	1-1123722-9		20	White 11 Pin Connector			
	A-226	WHITE	21	18	29 PIN F	0460-202-1631	HD10-9-96P	21 PIN 5	1318912-1	1-1123722-9		21	White 9 Pin Connector			
	B-803	RED	16	18	32 PIN 3	M23S05K351	MX23A26SF1	33 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		22	22	White 10 Pin Connector			
	L-804	GREY	11	18	32 PIN 4	M23S05K351	MX23A26SF1	6 POST 1	90* BLUE FEMALE SLIP SPADE		23	23	White 8 Pin Connector			
	K-805	BROWN	44	18	32 PIN 5	M23S05K351	MX23A26SF1	18 BLOCK 2	ULTRA SONIC WELD		15	24	Deutch 4 Pin Connector			
	J-806	BLACK	37	18	32 PIN 6	M23S05K351	MX23A26SF1	35 SIDE A	SOLDER 2K OHM POWER RESISTER		8	25	White 6 Pin Connector			
	J-807	BLACK	14	18	32 PIN 7	M23S05K351	MX23A26SF1	38			24	26	9 Pin Diagnostic Deutch Connector			
	L-809	GREY	39	18	32 PIN 9	M23S05K351	MX23A26SF1	18 BLOCK 301	ULTRA SONIC WELD			27	SCB - 6 Pin Connector			
	C-810	ORANGE	7	18	32 PIN 10	M23S05K351	MX23A26SF1	7 BOTTOM RIGHT POST	90* RED FEMALE SLIP SPADE			28	SCB - 4 Pin Connector			
	J-811	BLACK	14	18	32 PIN 11	M23S05K351	MX23A26SF1	38	BLUE #10 RING		24	29	9 Pin Deutch Coonector			
	B-812	RED	40	18	32 PIN 12	M23S05K351	MX23A26SF1	18 BLOCK 303	ULTRA SONIC WELD			30	Engine Run Signal Diode Bridge			
	A-813	WHITE	40	18	32 PIN 13	M23S05K351	MX23A26SF1	18 BLOCK 304	ULTRA SONIC WELD			31	Low Oil Pressure Verify/ECM Failure Reset			
	L-814	GREY	41	18	32 PIN 14	M23S05K351	MX23A26SF1	23 PIN 7	1318912-1	1-1123722-8		32	Auto Switching Base Module			
	E-816	GREEN	9	18	32 PIN 16	M23S05K351	MX23A26SF1	7 BOTTOM LEFT POST	RED FEMALE SLIP SPADE			33	Manual Display On Switch			
M-817	PURPLE	8	18	32 PIN 17	M23S05K351	MX23A26SF1	7 TOP LEFT POST	RED FEMALE SLIP SPADE			34	Soft Start Switch				
D-818	YELLOW	8	18	32 PIN 18	M23S05K351	MX23A26SF1	7 TOP RIGHT POST	RED FEMALE SLIP SPADE			35	2K Ohm Rister				
E-820	GREEN	39	18	32 PIN 20	M23S05K351	MX23A26SF1	31 TOP POST	90* RED FEMALE SLIP SPADE			36	Oil Pressure Relay				
B	A-822	CLEAR/WHITE	38	18-2	32 PIN 22	M23S05K351	MX23A26SF1	20 PIN 2	1318912-1	1-1123722-1	25	37	Voltage Divider			
	J-823	BLACK	38	shielded	32 PIN 23	M23S05K351	MX23A26SF1	20 PIN 1	1318912-1	1-1123722-1	25	38	*1" Twisted Wires			
	824	BARE	38	wire	32 PIN 24	M23S05K351	MX23A26SF1	20 PIN 3	1318912-1	1-1123722-1	25					
	L-825	GREY	41	18	32 PIN 25	M23S05K351	MX23A26SF1	23 PIN 1	1318912-1	1-1123722-8	26					
	B-747	RED	18	18	37 PIN 1	Molex 45750-1112	Molex 39-01-2160	9 TOP RIGHT POST	90* YELLOW FEMALE SLIP SPADE		1					
	B-747A	RED	11	18	37 PIN 2	Molex 45750-1112	Molex 39-01-2160	3B PIN 4	0462-201-16141	DT06-12S						
	A-748A	WHITE	11	18	37 PIN 3	Molex 45750-1112	Molex 39-01-2160	3B PIN 5	0462-201-16141	DT06-12S						
	A-748	WHITE	14	18	37 PIN 4	Molex 45750-1112	Molex 39-01-2160	8 TOP RIGHT POST	90* YELLOW FEMALE SLIP SPADE		2					
	B-774B	RED	5	18	37 PIN 5	Molex 45750-1112	Molex 39-01-2160	SPLICE	(SPLICE AT DIODE)		30					
	B-774D	RED	34	18	17 POST 2	YELLOW FEMALE SLIP SPADE		SPLICE	(SPLICE AT DIODE)		30					
	B-774A	RED	8	18	37 PIN 6	Molex 45750-1112	Molex 39-01-2160	33 BOTTOM POST	90* BLUE FEMALE SLIP SPADE		13					
	B-774C	RED	11	18	33 BOTTOM POST	90* BLUE FEMALE SLIP SPADE		3A PIN 1	0462-201-16141	DT06-6S	13					
	J-755	BLACK	5	18	37 PIN 16	Molex 45750-1112	Molex 39-01-2160	38	BLUE #10 RING		31					
	J-755A	BLACK	10	18	38	BLUE #10 RING		3B PIN 12	0462-201-16141	DT06-12S	31					
	G-766A	BLUE	20	12	16 POST 2	YELLOW FEMALE SLIP SPADE		24 PIN 1	0462-203-12141	DTP06-4S-E004						
	C-766B	ORANGE	22	12	15 POST 2	YELLOW FEMALE SLIP SPADE		24 PIN 2	0462-203-12141	DTP06-4S-E004	27					
	A	B-743F	RED	4	18	5 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		5 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		5				
		B-743G	RED	23	18	8 TOP LEFT POST	90* YELLOW FEMALE SLIP SPADE		5 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		5				
B-743H		RED	6.5	18	9 TOP LEFT POST	90* BLUE FEMALE SLIP SPADE		8 TOP LEFT POST	90* BLUE FEMALE SLIP SPADE		5					
J-797C		BLACK	19	18	7 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		4 POST 1	90* BLUE FEMALE SLIP SPADE		8					
J-769		BLACK	14	18	4 POST 1	90* BLUE FEMALE SLIP SPADE		38	BLUE #10 RING		8					
K-768		BROWN	4	18	5 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE		4 POST 2	90* RED FEMALE SLIP SPADE							
D-756		YELLOW	48	18	17 POST 1	YELLOW FEMALE SLIP SPADE		5 BOTTOM RIGHT POST	90* RED FEMALE SLIP SPADE		15					
B-773		RED	15	14	17 POST 2	YELLOW FEMALE SLIP SPADE		19 PIN T	0460-204-12141	HD34-24-9PN	10					
4				3				2				1				

Location #		Location Description	
1	Battery Selector Switch		
2	Voltmeter Gauge		
3	PV Diagnostic Gauge		
3A	6 PIN PV Diagnostic Gauge		
3B	12 PIN PV Diagnostic Guage		
4	Manual Mode Warning Lamp		
5	Auto/Manual Run Selector Switch		
6	Alternate ECM Warning Lamp		
7	ECM Selector Switch		
8	Crank Switch 2		
9	Crank Switch 1		
10	Manual Stop Switch		
11	Throttle Bump - Enable Switch		
12	Throttle Bump - Up & Down Switch		
13	Overspeed Reset & Overspeed Verify Swich		
14	HI Water Temp & Low Water Temp Verify Switch		
15	Battery Bridge 2		
16	Battery Bridge 1		
17	Coolant Bridge		
18	Terminal Blocks		
19	Power Harness Deutch Connector		
20	White 11 Pin Connector		
21	White 9 Pin Connector		
22	White 10 Pin Connector		
23	White 8 Pin Connector		
24	Deutch 4 Pin Connector		
25	White 6 Pin Connector		
26	9 Pin Diagnostic Deutch Connector		
27	SCB - 6 Pin Connector		
28	SCB - 4 Pin Connector		
29	9 Pin Deutch Coonector		
30	Engine Run Signal Diode Bridge		
31	Low Oil Pressure Verify/ECM Failure Reset		
32	Auto Switching Base Module		
33	Manual Display On Switch		
34	Soft Start Switch		
35	2K Ohm Rister		
36	Oil Pressure Relay		
37	Voltage Divider		
38	Ground Stud		
*	1" Twisted Wires		

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MACHINE TOLERANCE
DECIMAL mm inch
X. ±1.5
X.X ±0.8 ±0.06
X.XX ±0.3 ±0.03
X.XXX ±0.025 ±0.01
X.XXXX ±0.001

ANGULAR: ± 0.5°
FABRICATION TOLERANCE
DECIMAL mm inch
X. ±3
X.X ±1.5 ±0.12
X.XX ±0.06 ±0.06
ANGULAR: ± 1.0°

YES

NO

CONTROLLED
DRAWING

DRWN MJDEMBKOWSKI
DATE 20NOV14
ENGR MJDEMBKOWSKI
MATERIAL AS NOTED
ASSEMBLY
SIMILAR TO C072120-C072121

NAME
INSTRUMENT PANEL, 24V
CATERPILLAR

PART NO. C072745
SCALE NTS
UNITS MM [INCH]
PAGE 7 OF 11

REV A

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YES

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DRWN

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ASSEMBLY

SIMILAR TO

C072120-C072121

NAME

INSTRUMENT PANEL, 24V CATERPILLAR

PART NO.

C072745

REV

A

MACHINE TOLERANCE

DECIMALmminchX.±1.5±0.06X.X±0.8±0.06X.XX±0.3±0.03X.XXX±0.025±0.01X.XXXX±0.001ANGULAR: ±0.5°

FABRICATION TOLERANCE

DECIMALmminchX.±3±0.12X.X±1.5±0.08X.XXANGULAR: ±1.0°

CLARKE

Fire Protection Products, Inc.

SCALE

NTS

UNITS

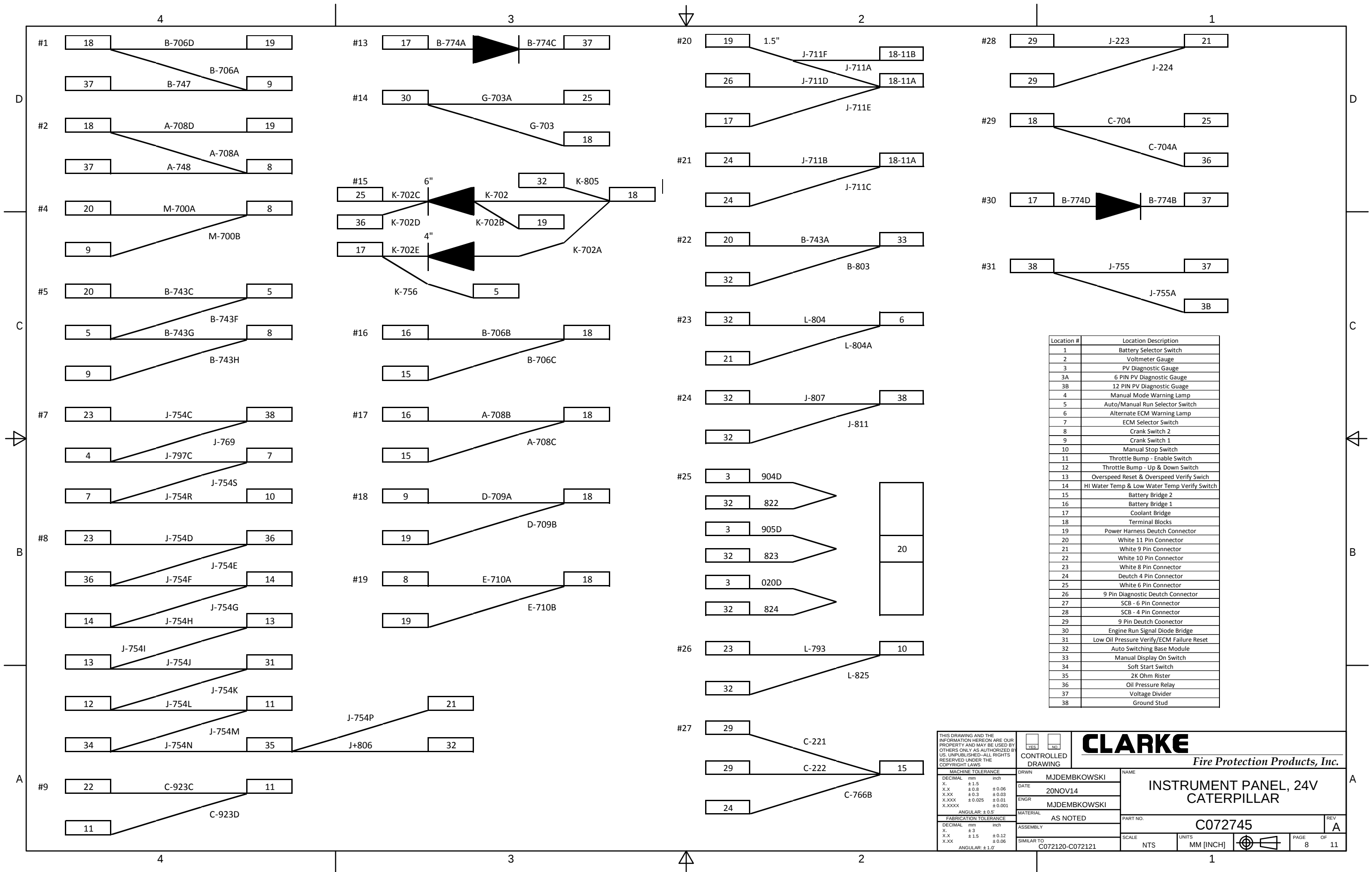
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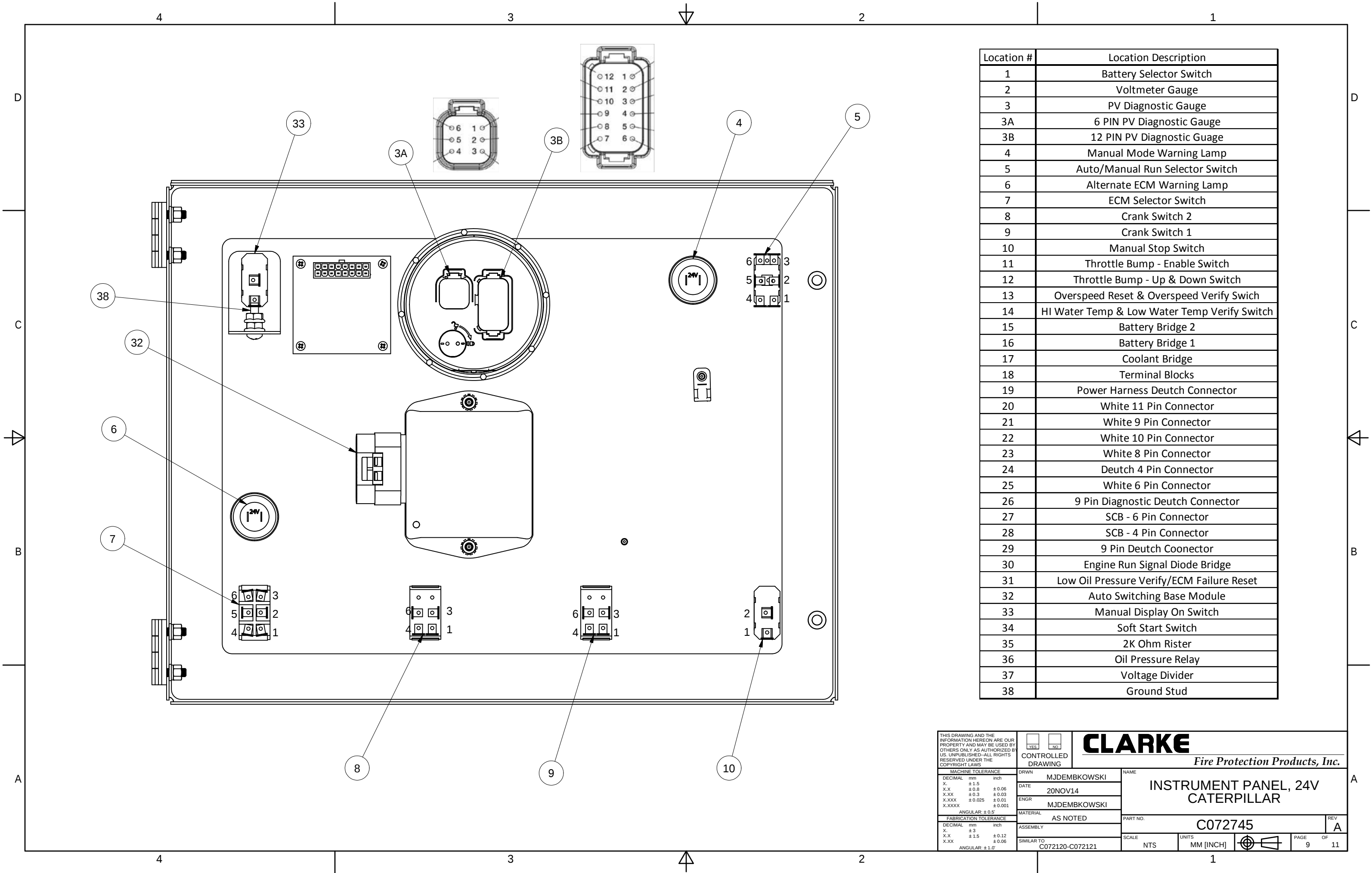
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Location #	Location Description
1	Battery Selector Switch
2	Voltmeter Gauge
3	PV Diagnostic Gauge
3A	6 PIN PV Diagnostic Gauge
3B	12 PIN PV Diagnostic Guage
4	Manual Mode Warning Lamp
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6	Alternate ECM Warning Lamp
7	ECM Selector Switch
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34	Soft Start Switch
35	2K Ohm Rister
36	Oil Pressure Relay
37	Voltage Divider
38	Ground Stud

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YES

NO

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DRWN

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MM [INCH]

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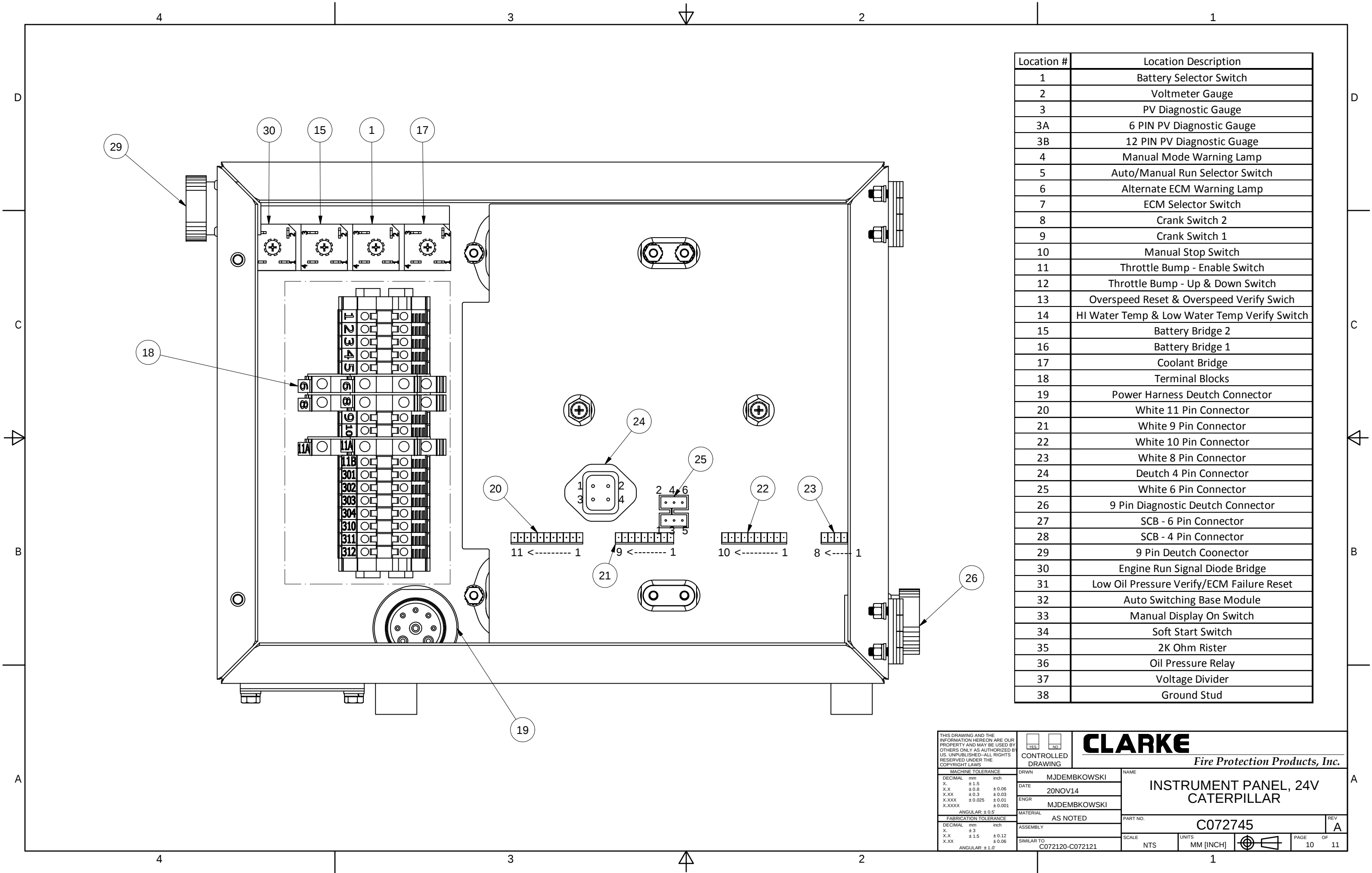
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OF

11

REV

A



Location #	Location Description
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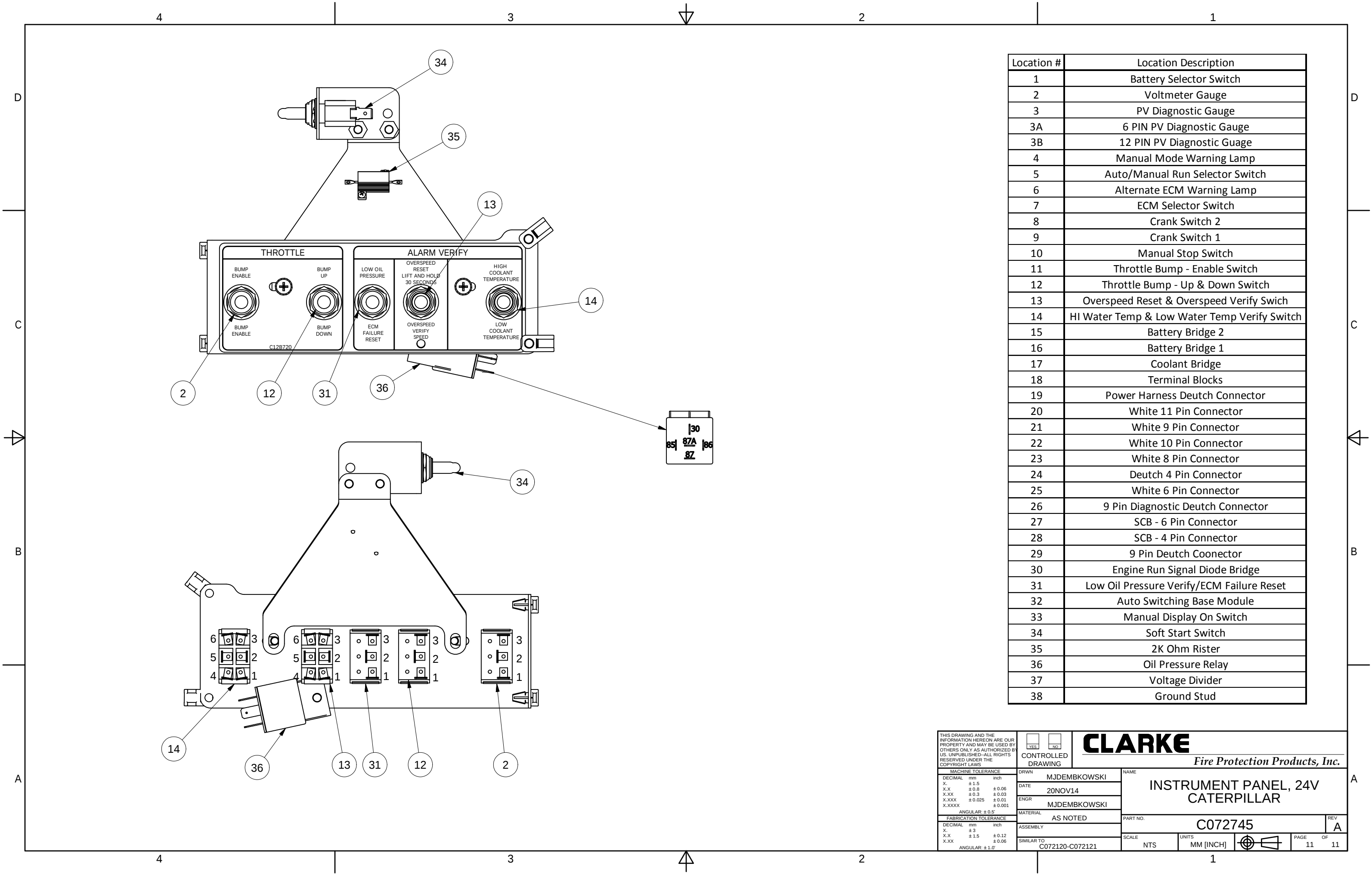
☒ YES ☐ NO

CONTROLLED DRAWING

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DRWN	MJDEMBKOWSKI	NAME	INSTRUMENT PANEL, 24V CATERPILLAR	
DATE	20NOV14			
ENGR	MJDEMBKOWSKI			
MATERIAL	AS NOTED	PART NO.	C072745	REV A
ASSEMBLY				
SIMILAR TO	C072120-C072121	SCALE	NTS	UNITS MM [INCH]
				PAGE 10 OF 11



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YES

NO

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MACHINE TOLERANCE

DECIMAL	mm	inch
X.	±1.5	
X.X	±0.8	±0.06
X.XX	±0.3	±0.03
X.XXX	±0.025	±0.01
X.XXXX		±0.001

ANGULAR: ±0.5°

FABRICATION TOLERANCE

DECIMAL	mm	inch
X.	±3	
X.X	±1.5	±0.12
X.XX		±0.06

ANGULAR: ±1.0°

DRWN

MJDEMBKOWSKI

DATE

20NOV14

ENGR

MJDEMBKOWSKI

MATERIAL

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INSTRUMENT PANEL, 24V CATERPILLAR

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REV

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MM [INCH]

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