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ITEMS	CATALOG	MFG	DESCRIPTION	MISC1	QTY
1	AT04-12PA-PM12	AMPHENOL	AMPHENOL RECPT AT 12 POS FLANGE A KEY	E SEAL, GASKETED FLANGE, GRAY	1
2	AW12P	AMPHENOL	WEDGELOCK		1
3	0460-202-16141	DEUTSCH	COMMON CONTACT PIN	NICKEL-PLATED SIZE 16, 16-20 AWG, 13A MAX CURRENT, 19202412	6
4	0460-202-1631	DEUTSCH	COMMON CONTACT PIN	GOLD-PLATED SIZE 16, 16-20 AWG, 13A MAX CURRENT, 19200026	4
5	114017	DEUTSCH	SEALING PLUG	CONTACT SIZE 12,16 FOR DT, HD, DR, & AE SERIES, 19201283	4
6	DTM06-12SA	DEUTSCH	DEUTSCH PLUG DTM 12 POS A KEY	GRAY, 19203817	3
7	WM-12S	DEUTSCH	WEDGELOCK	FOR DTM06-12S* PLUG, NORMAL SEAL RETENTION, 19205240	4
8	0462-201-20141	DEUTSCH	COMMON CONTACT SOCKET	NICKEL-PLATED SIZE 20, 20 AWG, 7.5A MAX CURRENT, 19202425	24
9	0413-204-2005	DEUTSCH	SEALING PLUG	CONTACT SIZE 20 FOR DTM, HD30, HDP20, DRC, WT, DRB, STRIKE SERIES, 19202406	10
10	43645-0400	MOLEX	MICRO-FIT 3.0 RECEPTACLE HOUSING, SINGLE ROW, 4 CIRCUITS, UL 94V-2, BLACK	19206345	4
11	43030-0009	MOLEX	MICRO-FIT 3.0 FEMALE TERMINAL, GOLD PLATED PHOSPHOR BRONZE 20-24 AWG, REEL	GOLD PLATED BRONZE, 43030-0009 REEL ALT., 8.5A MAX, 20-24 AWG WIRE, 19202944	16
12	DT06-2S-C015	DEUTSCH	DT PLUG	GRAY, PLASTIC, USES SIZE 16 SOCKETS, W2S WEDGELOCK, REDUCED SEAL SIZE, 19203776	1
13	W2S	DEUTSCH	WEDGELOCK	FOR DT06-2S PLUG, NORMAL SEAL RETENTION, 19205195	1
14	0462-201-16141	DEUTSCH	COMMON CONTACT SOCKET	NICKEL-PLATED SIZE 16, 16-20 AWG, 13A MAX CURRENT, 19200028	28
15	DT06-4S-C015	DEUTSCH	DT PLUG	GRAY, PLASTIC, USES SIZE 16 SOCKETS, W4S WEDGELOCK, REDUCED SEAL SIZE, 19203787	2
16	W4S	DEUTSCH	DEUTSCH LOCK DT 4 POS PLUG		2
17	DT06-6S-C015	DEUTSCH	DT PLUG	GRAY, PLASTIC, USES SIZE 16 SOCKETS, W6S WEDGELOCK, REDUCED SEAL SIZE, 19203792	2
18	W6S	DEUTSCH	WEDGELOCK	FOR DT06-6S PLUG, NORMAL SEAL RETENTION, 19201197	2
19	19017-0001	MOLEX	MOLEX DISCONNECT TERMINAL 2.79 X 0.51MM 18-22AWG PARTIAL INSULATION		4
20	19164-0051	MOLEX	PERMA-SEAL QUICK DISCONNECT FEMALE 6.35 X 0.81MM QUICK DISCONNECT 6.35 X 0.81MM 14-16AWG		2
21	0462-005-20141	DEUTSCH	COMMON CONTACT SOCKET	NICKEL-PLATED SIZE 20, 16-18 AWG, 7.5A MAX CURRENT, 19202421	12
22	DTM06-12SB	DEUTSCH	DEUTSCH PLUG DTM 12 POS B KEY	BLACK, 19203818	1
23	DT04-6P-P021	DEUTSCH	DEUTSCH RECPT DT 6 POS BUS	19221609	1
24	DT06-08SA-C015	DEUTSCH	DEUTSCH PLUG DT 8 POS E SEAL A KEY	GRAY, 19203765	1
25	W8S	DEUTSCH	WEDGELOCK	FOR DT06-08S* PLUG, NORMAL SEAL RETENTION, 19205213	1
26	DT04-08PA-P026	DEUTSCH	DT SERIES BUS CONNECTOR	GRAY, PLASTIC, A CODED, [1-2-7-8], [3-4-5-6], 19203730	1
27	39-01-2060	MOLEX	MINI-FIT JR.™ RECEPTACLE HOUSING, DUAL ROW, 6 CIRCUITS, UL 94V-2, NATURAL	19213265	3
28	39-00-0429	MOLEX	MINI-FIT JR.™ TERMINAL 5556 FEMALE TERMINAL	TIN/GOLD-PLATED BRASS, 9A MAX CURRENT, 18-24 AWG WIRE, 19213256	44
29	39-01-2125	MOLEX	MINI-FIT JR.™ RECEPTACLE HOUSING, DUAL ROW, 12 CIRCUITS, UL 94V-0, NATURAL	19213271	6

CBL	MFG	CAT
CBL31061	ANIXTER	6TXL-1801-4/D5
CBL31081	ANIXTER	6TXL-1801-4/D5
CBL31121	ANIXTER	6TXL-1801-4/D5
CBL31122	ANIXTER	6TXL-1801-4/D5
CBL31172	ANIXTER	6TXL-1801-4/D5
CBL32031	ANIXTER	6TXL-1801-4/D5
CBL32032	ANIXTER	6TXL-1801-4/D5
CBL32071	ANIXTER	6TXL-1801-4/D5
CBL32131	ANIXTER	6TXL-1801-4/D5

- NOTES:
- CONTACT ENGINEERING REGARDING ANY QUESTIONS, CLARIFICATIONS, OR REQUESTED DEVIATIONS.
 - HARNESS WIRING IS TO BE COVERED WITH BRAIDED EXPANDABLE PLASTIC SLEEVING.

GENERAL HARNESS CONSTRUCTION:

- LABEL WIRES EVERY 4" USING HOT STAMP OR INKJET MARKING WITH WIRE NUMBER AS INDICATED
- TEST PER GS TEST PROCEDURE SPECIFIED IN THE AUDIT CHECKLIST
- HARNESS TO FOLLOW GENERAL PRACTICES OF IPC/WHMA-A-620B
- ALL WIRE IS TYPE TXL UNLESS OTHERWISE SPECIFIED
- APPLY SECONDARY LOCKS & SEALS WHERE APPLICABLE
- CONNECTOR VIEWS ARE WIRE INSERTION SIDE UNLESS OTHERWISE NOTED

- SUPPLIER TO APPLY LABELS TO ALL CONNECTORS DESIGNATED WITH J****, P****, OR OTHER CONNECTOR TAG AND INCLUDE THE NAME (EX. "P5201 LEFT JOYSTICK")
- IF WIRE TIES ARE REQUIRED, APPLY APPROXIMATELY 2" BEFORE TERMINATING CONNECTOR
- ALL"CANH-x" AND "CANL-x" WIRES SHALL BE TWISTED PAIR, 0.67 TO 0.91 TWISTS PER INCH (REFERENCE SAE J1939-15).
- SPLICES MUST BE SOLDERED OR ULTRASONIC WELDED. OFFSET SPLICES TO AVOID THICKNESS BUILD-UP.

RELEASED

12-21-2022

WIRE ANNOTATION LEGEND:						
0462-201-16141 3 (1021) P7001:2 (BK-18) CBL1025						
PIN TERMINAL (WIRE NO.), DESTINATION:TERMINAL (WIRE COLOR-GAUGE) CABLE NO. -TWISTED PAIR IF APPLICABLE						
CREATED DRAWING	BDELAAT	12-20-2022	BDELAAT	12-21-2022		A
REVISION DESCRIPTION	REVISED BY	DATE	REVIEWED BY	DATE	ECO	REV

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

WIRE LENGTH TOLERANCES
SPEC.= IPC/WHMA-A-620B

≤ 1ft

> 1ft-5ft

> 5ft-10ft

> 10ft-25ft

> 25ft

+1in -0in

+2in -0in

+4in -0in

+6in -0in

+5% -0%

THIRD
ANGLE
PROJECTION

FRACTIONS ± 1/16in ± 1.59mm

TOLERANCES ON DECIMALS:

1 PLACE

2 PLACE

3 PLACE

in ± .030

mm ± .76

± .010

± .25

± .005

± .13

ANGULAR DIMENSIONS ± 1 DEG

DIMENSIONS IN () ARE REFERENCE

REMOVE BURRS

BREAK EDGES 0.01IN 0.25MM MAX

MAX SURFACE ROUGHNESS 125✓

ORIGINATED BY: RWESSEL

ORIGINATION DATE: 11-7-2022

PROJECT ENGINEER: BDELAAT

ACCOUNT MANAGER: MKAJA

MATERIAL: N/A

COATING/PLATING: N/A

CUSTOMER PART NUMBER:

GLOBAL
RESOURCES
MUKWONAGO, WI 53149

DRAWING TITLE:

ROTATOR
CONSOLE HARNESS
ASSEMBLY DRAWING

SHT SIZE: D

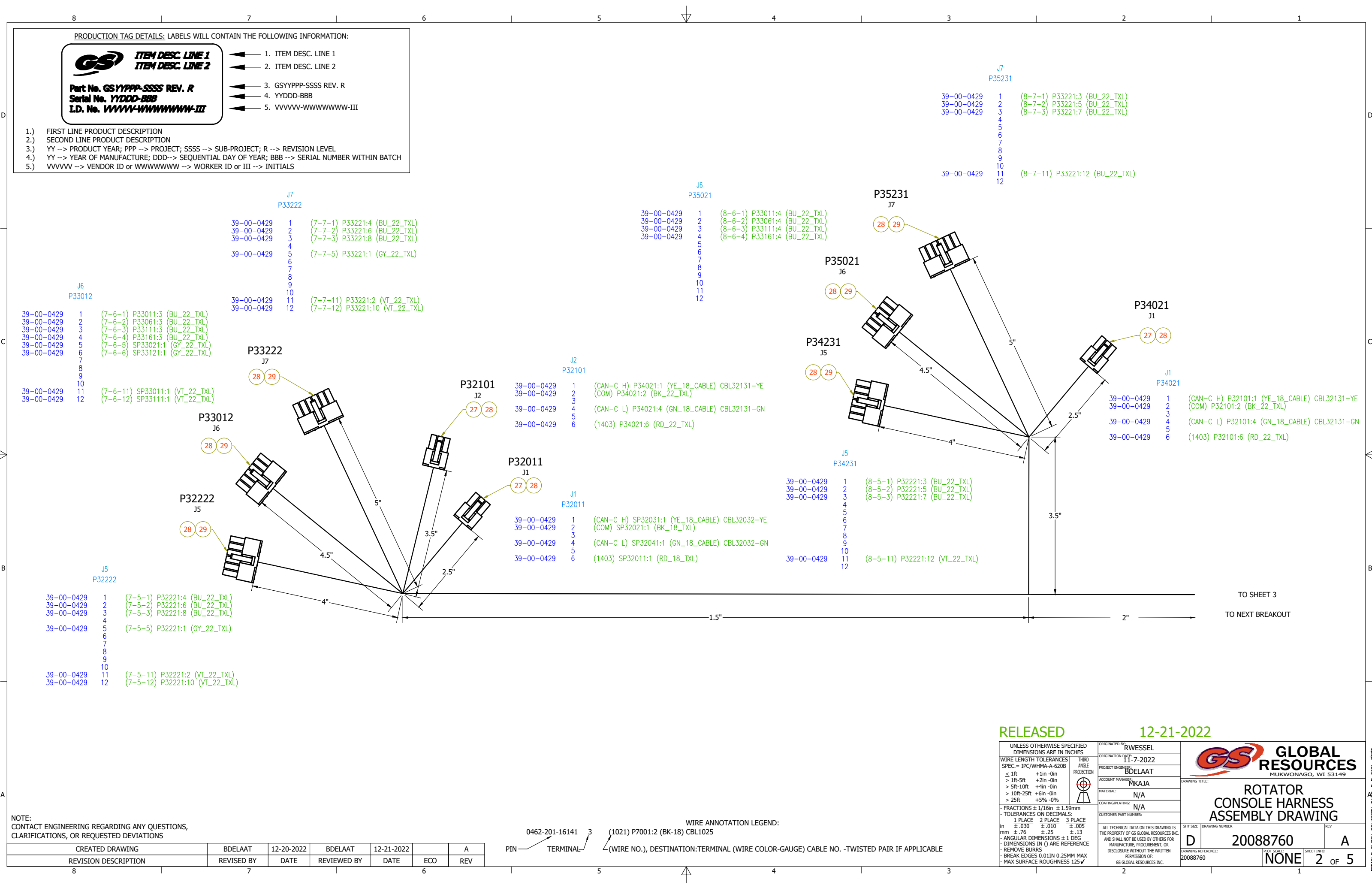
DRAWING NUMBER: 20088760

REV: A

DRAWING REFERENCE: 20088760

PLOT SCALE: NONE

SHEET INFO: 1 OF 5



ITEM DESC. LINE 1

ITEM DESC. LINE 2

Part No. GSYPPP-SSSS REV. R

Serial No. YYDD-BBB

I.D. No. VVVVV-WWWWWW-III

1. ITEM DESC. LINE 1

2. ITEM DESC. LINE 2

3. GSYPPP-SSSS REV. R

4. YYDD-BBB

5. VVVVV-WWWWWW-III

1.) FIRST LINE PRODUCT DESCRIPTION

2.) SECOND LINE PRODUCT DESCRIPTION

3.) YY --> PRODUCT YEAR; PPP --> PROJECT; SSSS --> SUB-PROJECT; R --> REVISION LEVEL

4.) YY --> YEAR OF MANUFACTURE; DDD--> SEQUENTIAL DAY OF YEAR; BBB --> SERIAL NUMBER WITHIN BATCH

5.) VVVVV --> VENDOR ID or WWWWWW --> WORKER ID or III --> INITIALS

NOTE:
CONTACT ENGINEERING REGARDING ANY QUESTIONS,
CLARIFICATIONS, OR REQUESTED DEVIATIONS

CREATED DRAWING	BDELAAT	12-20-2022	BDELAAT	12-21-2022		A
REVISION DESCRIPTION	REVISED BY	DATE	REVIEWED BY	DATE	ECO	REV

WIRE ANNOTATION LEGEND:

4062-201-16141 3
PIN TERMINAL

(1021) P7001:2 (BK-18) CBL1025

(WIRE NO.), DESTINATION:TERMINAL (WIRE COLOR-GAUGE) CABLE NO. -TWISTED PAIR IF APPLICABLE

RELEASED12-21-2022

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

WIRE LENGTH TOLERANCES
SPEC. = IPC/WHMA-A-620B

THIRD
ANGLE
PROJECTION

FRACTIONS ± 1/16in ± 1.59mm

TOLERANCES ON DECIMALS:
1 PLACE 2 PLACE 3 PLACE

in ± .030 ± .010 ± .005

mm ± .76 ± .25 ± .13

ANGULAR DIMENSIONS ± 1 DEG

DIMENSIONS IN () ARE REFERENCE

REMOVE BURRS

BREAK EDGES 0.011in 0.25MM MAX

MAX SURFACE ROUGHNESS 125✓

ORIGINATED BY: RWESSEL

ORIGINATION DATE: 11-7-2022

PROJECT ENGINEER: BDELAAT

ACCOUNT MANAGER: MKAJA

MATERIAL: N/A

COATING/PLATING: N/A

CUSTOMER PART NUMBER:

GLOBAL
RESOURCES

MUKWONAGO, WI 53149

DRAWING TITLE:

ROTATOR
CONSOLE HARNESS
ASSEMBLY DRAWING

SHT SIZE: D

DRAWING NUMBER: 20088760

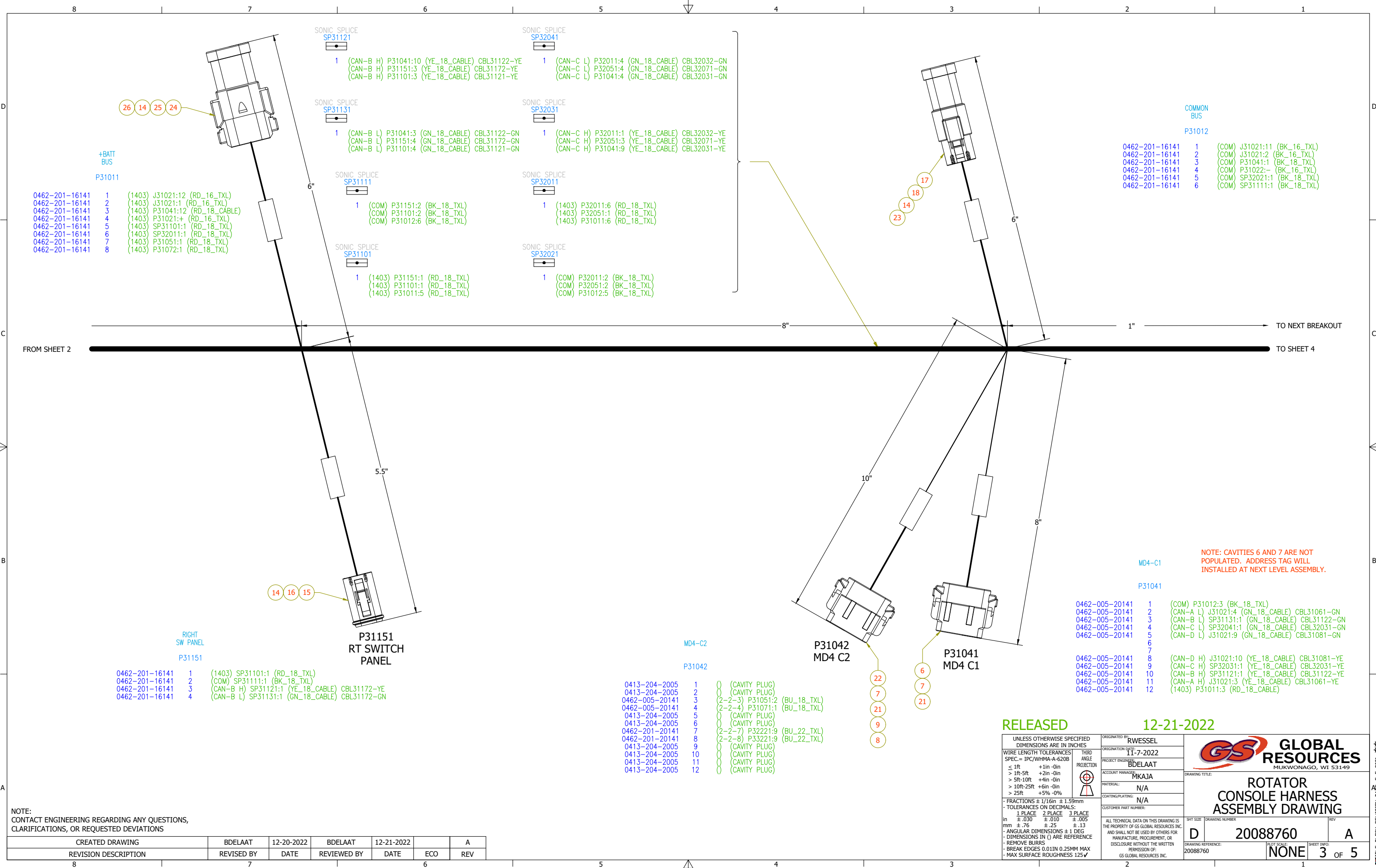
REV: A

DRAWING REFERENCE: 20088760

PLOT SCALE: NONE

SHEET INFO: 2 OF 5

TITLE BLOCK REVISION DATE: 5-5-2021




NOTE:
CONTACT ENGINEERING REGARDING ANY QUESTIONS,
CLARIFICATIONS, OR REQUESTED DEVIATIONS

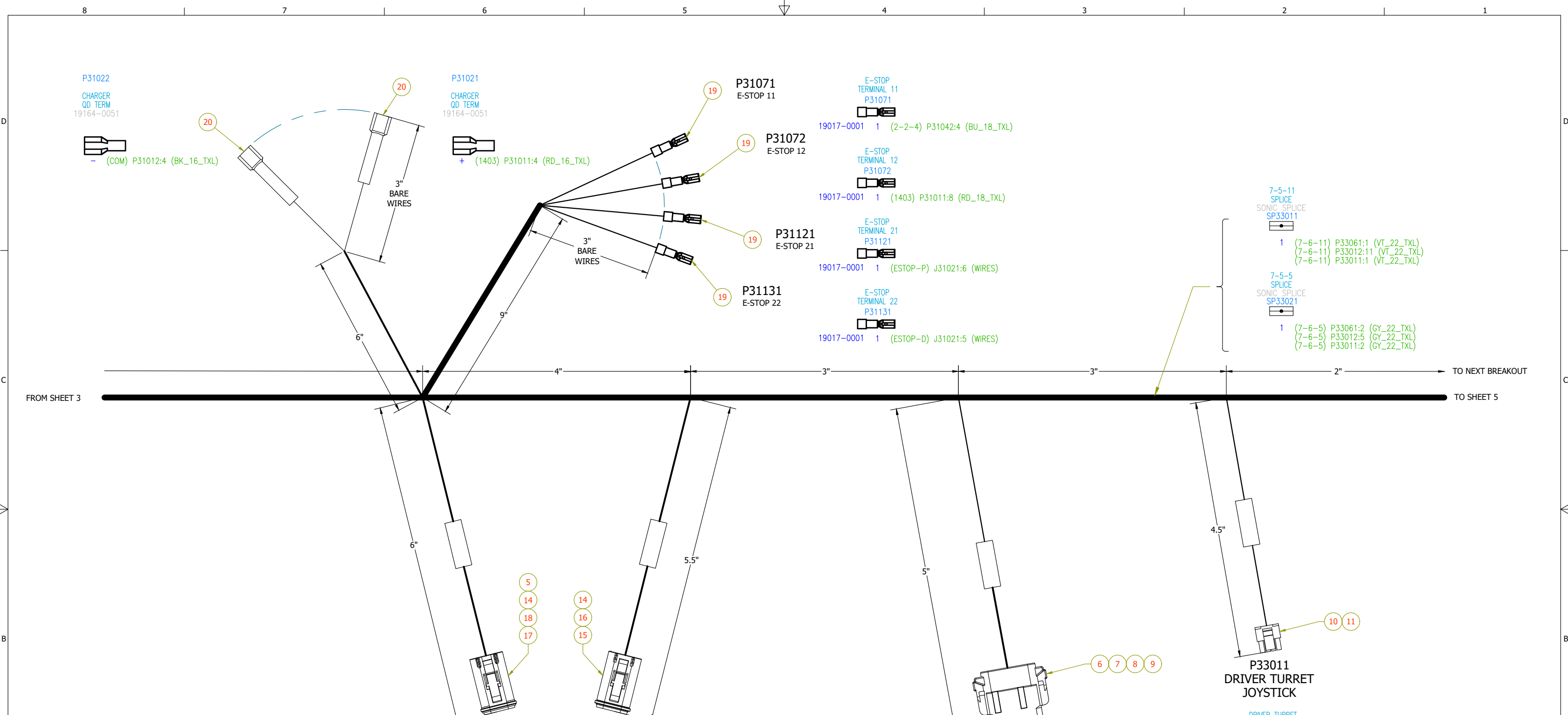
CREATED DRAWING	BDELAAT	12-20-2022	BDELAAT	12-21-2022		A
REVISION DESCRIPTION	REVISED BY	DATE	REVIEWED BY	DATE	ECO	REV

RELEASED

12-21-2022

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WIRE LENGTH TOLERANCES SPEC. = IPC/WHMA-A-620B THIRD ANGLE PROJECTION - FRACTIONS ± 1/16in ± 1.59mm - TOLERANCES ON DECIMALS: in ± .030 ± .010 ± .005 mm ± .76 ± .25 ± .13 - ANGULAR DIMENSIONS ± 1 DEG - DIMENSIONS IN () ARE REFERENCE - REMOVE BURRS - BREAK EDGES 0.011in 0.25MM MAX - MAX SURFACE ROUGHNESS 125✓	ORIGINATED BY: RWESSEL	 GLOBAL RESOURCES MUKWONAGO, WI 53149	
	ORIGINATION DATE: 11-7-2022		DRAWING TITLE: ROTATOR CONSOLE HARNESS ASSEMBLY DRAWING
	PROJECT ENGINEER: BDELAAT		SHIT SIZE: D
	ACCOUNT MANAGER: MKAJA		DRAWING NUMBER: 20088760
	MATERIAL: N/A		REV: A
COATING/PLATING: N/A	CUSTOMER PART NUMBER:		
ALL TECHNICAL DATA ON THIS DRAWING IS THE PROPERTY OF GS GLOBAL RESOURCES INC. AND SHALL NOT BE USED BY OTHERS FOR: MANUFACTURE, PROCUREMENT, OR DISCLOSURE WITHOUT THE WRITTEN PERMISSION OF: GS GLOBAL RESOURCES INC.			
DRAWING REFERENCE: 20088760			
PLOT SCALE: NONE			
SHEET INFO: 3 OF 5			

TITLE BLOCK REVISION DATE: 5-5-2021



U/L SWITCH PANEL P32051		0462-201-16141	1	(1403) SP32011:1 (RD_18_TXL)
		0462-201-16141	2	(COM) SP32021:1 (BK_18_TXL)
		0462-201-16141	3	(CAN-C H) SP32031:1 (YE_18_CABLE) CBL32071-YE
		0462-201-16141	4	(CAN-C L) SP32041:1 (GN_18_CABLE) CBL32071-GN
		114017	5	() (CAVITY PLUG)
		114017	6	() (CAVITY PLUG)
LEFT SW PANEL P31101		0462-201-16141	1	(1403) SP31101:1 (RD_18_TXL)
		0462-201-16141	2	(COM) SP31111:1 (BK_18_TXL)
		0462-201-16141	3	(CAN-B H) SP31121:1 (YE_18_CABLE) CBL31121-YE
		0462-201-16141	4	(CAN-B L) SP31131:1 (GN_18_CABLE) CBL31121-GN
BOOM JOYSTICK P32221		0462-201-20141	1	(7-5-5) P32222:5 (GY_22_TXL)
		0462-201-20141	2	(7-5-11) P32222:11 (VT_22_TXL)
		0462-201-20141	3	(8-5-1) P34231:1 (BU_22_TXL)
		0462-201-20141	4	(7-5-1) P32222:1 (BU_22_TXL)
		0462-201-20141	5	(8-5-2) P34231:2 (BU_22_TXL)
		0462-201-20141	6	(7-5-2) P32222:2 (BU_22_TXL)
		0462-201-20141	7	(8-5-3) P34231:3 (BU_22_TXL)
		0462-201-20141	8	(7-5-3) P32222:3 (BU_22_TXL)
		0462-201-20141	9	(2-2-7) P31042:7 (BU_22_TXL)
		0462-201-20141	10	(7-5-12) P32222:12 (VT_22_TXL)
		0413-204-2005	11	() (CAVITY PLUG)
		0462-201-20141	12	(8-5-11) P34231:11 (VT_22_TXL)
DRIVER TURRET JOYSTICK P33011		43030-0009	1	(7-6-11) SP33011:1 (VT_22_TXL)
		43030-0009	2	(7-6-5) SP33021:1 (GY_22_TXL)
		43030-0009	3	(7-6-1) P33012:1 (BU_22_TXL)
		43030-0009	4	(8-6-1) P35021:1 (BU_22_TXL)

RELEASED

12-21-2022

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINATED BY: RWESSEL	
WIRE LENGTH TOLERANCES SPEC. = IPC/WHMA-A-620B		ORIGINATION DATE: 11-7-2022	
THIRD ANGLE PROJECTION		PROJECT ENGINEER: BDELAAT	
ACCOUNT MANAGER: MKAJA		MATERIAL: N/A	
COATING/PLATING: N/A		CUSTOMER PART NUMBER:	
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DRAWING REFERENCE: 20088760		PLOT SCALE: NONE	
SHEET INFO: 4 OF 5		REV: A	

CREATED DRAWING

BDELAAT

12-20-2022

BDELAAT

12-21-2022

ECO

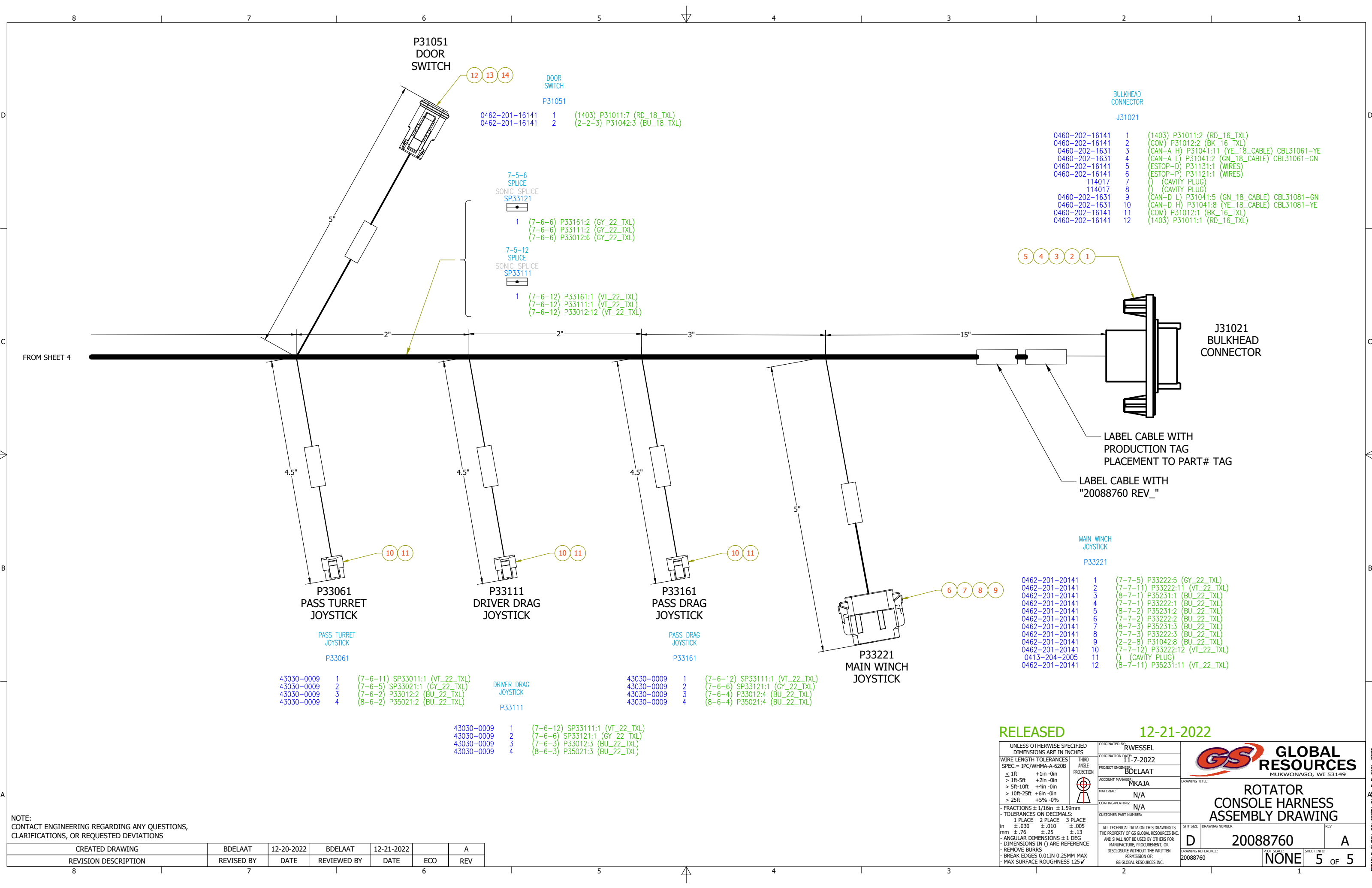
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NOTE:

REVISION DESCRIPTION

CONTACT ENGINEERING REGARDING ANY QUESTIONS, CLARIFICATIONS, OR REQUESTED DEVIATIONS

TITLE BLOCK REVISION DATE: 5-5-2021



NOTE:
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CLARIFICATIONS, OR REQUESTED DEVIATIONS

CREATED DRAWING	BDELAAT	12-20-2022	BDELAAT	12-21-2022		A
REVISION DESCRIPTION	REVISED BY	DATE	REVIEWED BY	DATE	ECO	REV

RELEASED

12-21-2022

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

WIRE LENGTH TOLERANCES
SPEC. = IPC/WHMA-A-620B

THIRD ANGLE
PROJECTION

FRACTIONS ± 1/16in ± 1.59mm
TOLERANCES ON DECIMALS:

1 PLACE 2 PLACE 3 PLACE

in ± .030 ± .010 ± .005

mm ± .76 ± .25 ± .13

ANGULAR DIMENSIONS ± 1 DEG

DIMENSIONS IN () ARE REFERENCE

REMOVE BURRS

BREAK EDGES 0.011IN 0.25MM MAX

MAX SURFACE ROUGHNESS 125√

ORIGINATED BY: RWESSEL

ORIGINATION DATE: 11-7-2022

PROJECT ENGINEER: BDELAAT

ACCOUNT MANAGER: MKAJA

MATERIAL: N/A

COATING/PLATING: N/A

CUSTOMER PART NUMBER:

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GS GLOBAL RESOURCES

MUKWONAGO, WI 53149

DRAWING TITLE:
**ROTATOR
CONSOLE HARNESS
ASSEMBLY DRAWING**

SHT SIZE: D
DRAWING NUMBER: 20088760
DRAWING REFERENCE: 20088760

REV: A
SHEET INFO: 5 OF 5

TITLE BLOCK REVISION DATE: 5-5-2021