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.
- WIRE BRAIDING TO BE APPLIED TO HARNESS UP TO 2" FROM BACK OF CONNECTORS

BILL OF MATERIALS

ITEMS	GSGR PART NO	CATALOG	MFG	DESCRIPTION	QTY
1	19212735	33472-2006	MOLEX	MX150 Sealed Female Connector, Dual Row, 20 Circuits, Polarization A, with Connector Position Assurance, Black	1
2	19212691	33001-2004	MOLEX	MX150 Female Terminal Sealed, Gold Plating, 18 and 20 AWG, Right Reel Payoff	2
3	20014780	33001-2005	MOLEX	MX150 Female Terminal Sealed, Gold Plating, 22 AWG, Right Reel Payoff	2
4	19212781	34345-0001	MOLEX	MX150 BLADE CAVITY PLUG	16
5		C1000ADP	CONVOY TECHNOLOGIES	MULTI-CONDUCTOR CABLE 2X18, 2X20	2
6	19222136	EPS-300-3/16-BLACK	3M	HEAT SHRINK TUBING 3/16IN 3:1 RATIO BLACK WITH ADHESIVE	6
7	19238285	SE50P-CR0	PANDUIT	BRAIDED SLEEVING, EXPANDABLE, 0.50" BLACK PET	1

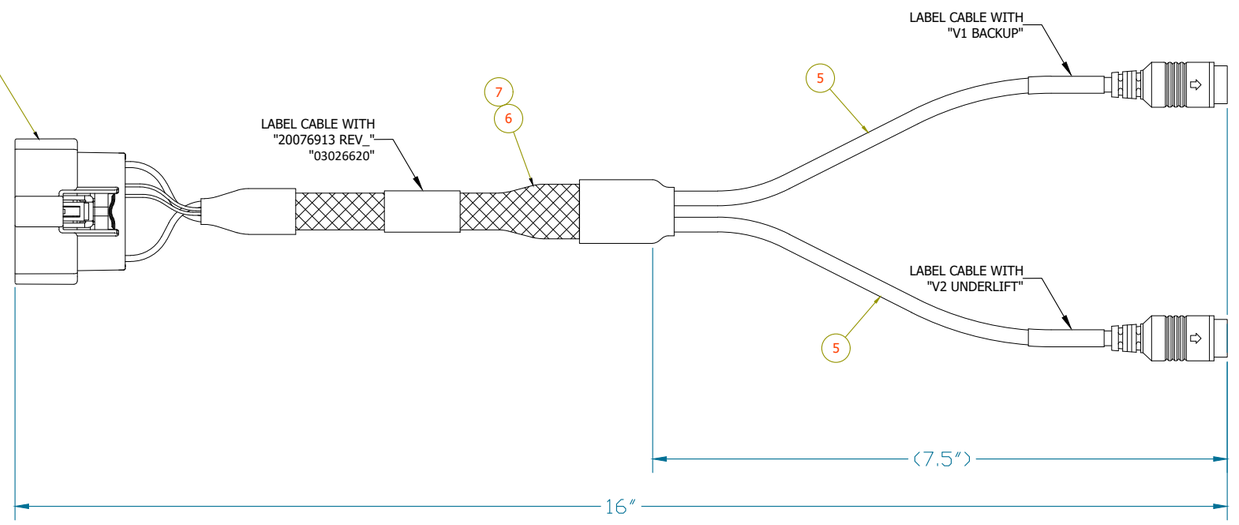
ASSEMBLY NOTES:

1. SPLICE TOGETHER BOTH RED 18 AWG WIRES, 2 INCHES FROM MOLDED BLOCK. COVER SPLICE WITH SHRINK TUBING. REF SP11261
2. SPLICE TOGETHER BOTH BLACK 18 AWG WIRES, 3 INCHES FROM MOLDED BLOCK. COVER SPLICE WITH SHRINK TUBING. REF SP11271
3. CUT OFF YELLOW RCA PLUG AND STRIP JACKET AT 4 INCHES FROM MOLDED BLOCK. CUT BLACK 22 AWG WIRE AT 1.5" BEYOND JACKET. FOLD BACK BLACK WIRE AND COVER WITH SHRINK TUBING LEAVING YELLOW WIRE TO EXIT TUBING.
4. CUT OFF RED RCA PLUG AND STRIP JACKET AT 2 INCHES FROM MOLDED BLOCK. CUT BLACK 22 AWG WIRE AT 1 INCHES AND THE RED 22 AWG WIRE AT 1.25 INCHES BEYOND JACKET. FOLD BACK WIRES AND COVER WITH SHRINK TUBING.
5. COVER MOLDED BLOCK AND LOOSE WIRES WITH EXPANDED SLEEVING AND SECURE ENDS WITH ADHESIVE BACKED SHRINK TUBING.
6. LABEL 4 REMAINING WIRES AND TERMINATE TO P11211 CONNECTOR.
7. AFFIX "V1 BACKUP" AND "V2 UNDERLIFT" LABELS TO CABLES.
8. AFFIX PRODUCTION LABEL TO CABLE ASSEMBLY.

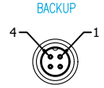
CAB DISPLAY
CAMERA CONNECTOR

P11211

34345-0001	1	() (CAVITY PLUG)
34345-0001	2	() (CAVITY PLUG)
34345-0001	3	() (CAVITY PLUG)
34345-0001	4	() (CAVITY PLUG)
34345-0001	5	() (CAVITY PLUG)
34345-0001	6	() (CAVITY PLUG)
33001-2005	7	(1-2-7) J11251:4 (YE_22_CABLE) CBL11281
33001-2005	8	(1-2-8) J11301:4 (YE_22_CABLE) CBL11311
34345-0001	9	() (CAVITY PLUG)
33001-2004	10	(1-2-10) SP11261:1 (RD_20_TXL)
33001-2004	11	(1-2-11) SP11271:1 (BK_20_TXL)
34345-0001	12	() (CAVITY PLUG)
34345-0001	13	() (CAVITY PLUG)
34345-0001	14	() (CAVITY PLUG)
34345-0001	15	() (CAVITY PLUG)
34345-0001	16	() (CAVITY PLUG)
34345-0001	17	() (CAVITY PLUG)
34345-0001	18	() (CAVITY PLUG)
34345-0001	19	() (CAVITY PLUG)
34345-0001	20	() (CAVITY PLUG)



J11251
V1
BACKUP



1 (1-2-10) SP11261:1 (RD_18_CABLE) CBL11251-RD
2 (1-2-11) SP11271:1 (BK_18_CABLE) CBL11251-BK
3 () P11271:1 (RD_22_TXL) CBL11271
4 (1-2-7) P11211:7 (YE_22_CABLE) CBL11281

J11301
V2
UNDERLIFT

1 (1-2-10) SP11261:1 (RD_18_CABLE) CBL11301-RD
2 (1-2-11) SP11271:1 (BK_18_CABLE) CBL11301-BK
3 () P11321:1 (RD_22_TXL) CBL11321
4 (1-2-8) P11211:8 (YE_22_CABLE) CBL11311

SONIC SPLICE
SP11261

1 (1-2-10) J11301:1 (RD_18_CABLE) CBL11301-RD
(1-2-10) P11211:10 (RD_20_TXL)
(1-2-10) J11251:1 (RD_18_CABLE) CBL11251-RD

SONIC SPLICE
SP11271

1 (1-2-11) J11301:2 (BK_18_CABLE) CBL11301-BK
(1-2-11) P11211:11 (BK_20_TXL)
(1-2-11) J11251:2 (BK_18_CABLE) CBL11251-BK

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

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

RELEASED 12-20-2022

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

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

≤ 1ft	+1in -0in
> 1ft-5ft	+2in -0in
> 5ft-10ft	+4in -0in
> 10ft-25ft	+6in -0in
> 25ft	+5% -0%

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 0.01IN 0.25MM MAX
- MAX SURFACE ROUGHNESS 125✓

ORIGINATED BY: BDELAAT
ORIGINATION DATE: 2-18-2022
PROJECT ENGINEER: BDELAAT
ACCOUNT MANAGER: MKAJA
MATERIAL:
COATING/PLATING:
CUSTOMER PART NUMBER: 03029369

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GLOBAL RESOURCES
MUKWONAGO, WI 53149

DRAWING TITLE:
CAB DISPLAY CAMERA HARNESS ASSEMBLY DRAWING

SHT SIZE	DRAWING NUMBER	REV
D	20076913	A

DRAWING REFERENCE: GS17177-0022
PLOT SCALE: NONE
SHEET INFO: 1 OF 1

TITLE BLOCK REVISION DATE: 5-5-2021