NOTES:
1) THIS HARNESS ASSEMBLY IS TO BE BUILT PER THE CLASS 1 WIRING ASSEMBLY SPEC #122337 UNLESS OTHERWISE SPECIFIED, (ON THIS DRAWING).
2) ENDPOINTS AND OR BRANCH LENGTH REFERENCES ARE FROM THE REAR OF THE CONNECTOR TO THE MAIN BODY.
3) ALL AUTOMOTIVE WIRE TYPE TO BE GXL, EXCEPT FOR THE J1939 ENGINE BUSS NETWORK AND THE BEL9364 3 CONDUCTOR 20 GAUGE CABLES.
4) THE 3 CONDUCTOR 20 GAUGE CABLE IS TO BE RATED AT 300V, BLACK OR GREY OUTER CABLE JACKETS ARE COMPLIANT.
5) THE J1939 CABLE IS TO BE HALE/CLASS 1, 103349 AND OR EQUIVALENT.
6) THE SHIELD CIRCUIT OF THE 103349 CABLE IS TO BE SPLICED UP TO AN 18GA WIRE, SEE DETAIL 'A' FOR SPLICING INSTRUCTIONS.
7) LOOM TO THIS HARNESS VIA THE PRINT DRAWING, TO WITHIN 2" OF ALL ENDPOINTS BREAKOUTS UNLESS OTHERWISE NOTED. LOOM COLOR TO BE AS CALLED OUT FOR EACH BRANCH & COLORED ELECTRICAL TAPE APPLIED.
8) HARNESS MAIN LABEL TO BE PLACED AT THE BASE OF THE HARNESS, REAR OF THE MAIN CONNECTOR OR CONNECTORS.
9) HARNESS BUSS CABLE NETWORK ID MARKERS TO BE PLACED AT THE REAR OF EACH CONNECTOR, FOR THE CABLE THAT IS CONNECTED TO THE CAN BUSS NETWORK.
10) LABEL REFERENCE EACH INDIVIDUAL CONNECTOR ENDPOINT, PANDUIT OR EQUIVALENT WEATHERPROOF LABEL TYPES ARE ACCEPTABLE. PLACE LABEL 1" FROM END OF LOOM AND WRAP AROUND LOOM.

B

PROJECTION:

UV1100 DISPLAY CONNECTOR

CONNECTOR AMP/TYCO: 770680-1 (BLK)FML
TERMINAL TYCO: 770520-1 (TIN)
TERMINAL AMP/TYCO: 770520-3 (GOLD)
CAVITY PLUG AMP/TYCO: 770678-1(NATURAL)
LABEL ENDPOINT: "UV1100"

POS	CIRCUIT	COLOR	GA	
1	----	----	----	
2	----	----	----	
3	----	----	----	
4	----	----	----	
5	CAN LOW (AFS)	GREEN	103349	SPLCAN
6	CAN HIGH (AFS)	YELLOW	103349	SPLCAN
7	SYSTEM POWER	RED	16GXL	SPLPWR
8	SYSTEM GROUND	BLACK	16GXL	SPLGND
9	----	----	----	
10	----	----	----	
11	----	----	----	
12	----	----	----	
13	----	----	----	
14	----	----	----	
15	IGNITION	WHITE	16GXL	SPLPWR
16	SYSTEM GROUND	BLACK	16GXL	SPLGND
17	SYSTEM POWER	RED	16GXL	SPLPWR
18	CAN LOW (DISCHARGE)	GREEN	103349	
19	CAN HIGH (DISCHARGE)	YELLOW	103349	
20	----	----	----	
21	----	----	----	
22	----	----	----	
23	----	----	----	

UV800 DISPLAY CONNECTOR

CONNECTOR AMP/TYCO: 770680-1 (BLK)FML
TERMINAL TYCO: 770520-1 (TIN)
TERMINAL AMP/TYCO: 770520-3 (GOLD)
CAVITY PLUG AMP/TYCO: 770678-1(NATURAL)
LABEL ENDPOINT: "UV800"

POS	CIRCUIT	COLOR	GA	
1	----	----	----	
2	----	----	----	
3	----	----	----	
4	----	----	----	
5	CAN LOW (CHASSIS)	GREEN	103349	
6	CAN HIGH (CHASSIS)	YELLOW	103349	
7	SYSTEM POWER	RED	16GXL	SPLPWR
8	SYSTEM GROUND	BLACK	16GXL	SPLGND
9	----	----	----	
10	----	----	----	
11	----	----	----	
12	----	----	----	
13	----	----	----	
14	----	----	----	
15	IGNITION	WHITE	16GXL	SPLPWR
16	SYSTEM GROUND	BLACK	16GXL	SPLGND
17	SYSTEM POWER	RED	16GXL	SPLPWR
18	CAN LOW (AFS)	GREEN	103349	SPLCAN
19	CAN HIGH (AFS)	YELLOW	103349	SPLCAN
20	----	----	----	
21	----	----	----	
22	BUZZER ALARM OUTPUT	BLACK	16GXL	
23	----	----	----	

BUZZER ALARM

OPEN END
LABEL ENDPOINT: "BUZZER ALARM"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	16GXL	SPLPWR
2	BUZZER ALARM OUTPUT	BLACK	16GXL	

DRIVER MODULE

CONNECTOR DELPHI: 12015791 (TOWER/BLK)
TERMINAL DELPHI: 12124580 FEMALE (TIN)
SEAL DELPHI: 15324982 (GRN 16-14GA)
CONNECTOR DELPHI: 12010996 (SHRD/BLK)
SEAL DELPHI: 12010300 CAVITY PLUG (GRN)
LABEL ENDPOINT: "DRIVER MODULE"

POS	CIRCUIT	COLOR	GA
1	DRIVER MODULE -	BLACK	16GXL

ITL-40

CONNECTOR DEUTSCH: DT06-12S (BLK) FML
LOCK DEUTSCH: W12S (ORG)
TERMINAL DEUTSCH:0462-201-1631 (GOLD)
TERMINAL DEUTSCH:0462-201-16141(18-16)
LABEL ENDPOINT: "ITL-40"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	16GXL	SPLPWR
2	CAN HIGH 2 (AFS)	YELLOW	103349	SPLCAN
3	CAN SHLD (AFS)	BLACK	18GXL	SPLCAN
4	114017	----	----	
5	XDCR + REF	RED	BEL9364	
6	XDCR SIG REF	WHITE	BEL9364	
7	XDCR - REF	BLSCK	BEL9364	
8	DRIVER MODULE -	BLACK	16GXL	
9	114017	----	----	
10	114017	----	----	
11	CAN LOW 2 (AFS)	GREEN	103349	SPLCAN
12	SYSTEM GROUND	BLACK	16GXL	SPLGND

TWISTER THROTTLE

CONNECTOR DEUTSCH: DT06-6S (GRY) FML
LOCK DEUTSCH: W6S (ORG)
TERMINAL DEUTSCH:0462-201-1631 (GOLD)
TERMINAL DEUTSCH:0462-201-16141(18-16)
LABEL ENDPOINT: "TWISTER"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	16GXL	SPLPWR
2	SYSTEM GROUND	BLACK	16GXL	SPLGND
3	114017	----	----	
4	CAN HIGH (AFS)	YELLOW	103349	SPLCAN
5	CAN LOW (AFS)	GREEN	103349	SPLCAN
6	CAN SHLD (AFS)	BLACK	18GXL	SPLCAN

SOURCE WIFI PWR

CONNECTOR DELPHI: 12015792 (TOWER/BLK)
TERMINAL DELPHI: 12124580 FEMALE (TIN)
SEAL DELPHI: 15324982 (GRN 16-14GA)
LABEL ENDPOINT: "SOURCE WIFI PWR"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	16GXL	SPLPWR
2	SYSTEM GROUND	BLACK	16GXL	SPLGND

SOURCE PWR AUDIO

CONNECTOR DELPHI: 12010973 (SHRD/BLK)
TERMINAL DELPHI: 12124582 MALE (TIN)
SEAL DELPHI: 15324980 (GRY 16-14GA)
LABEL ENDPOINT: "SOURCE PWR AUDIO"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	14GXL	SPLPWR
2	SYSTEM GROUND	BLACK	14GXL	SPLGND

AFS CAN BUSS (NETWORK CONNECTION)

CONNECTOR DEUTSCH: DT06-3S (GRY) FML
LOCK DEUTSCH: W3S-1939 (BLUE)
CONNECTOR DEUTSCH: DT04-3P-P007 (GRY)
TERMINAL DEUTSCH:0462-201-1631 (GOLD)
LABEL ENDPOINT: "AFS CAN BUSS"

POS	CIRCUIT	COLOR	GA	
A	CAN HIGH (AFS)	YELLOW	103349	SPLCAN
B	CAN LOW (AFS)	GREEN	103349	SPLCAN
C	114017	----	----	

DSCHRG CAN BUSS (NETWORK CONNECTION)

CONNECTOR DEUTSCH: DT06-3S (GRY) FML
LOCK DEUTSCH: W3S-1939 (BLUE)
CONNECTOR DEUTSCH: DT04-3P-P007 (GRY)
TERMINAL DEUTSCH:0462-201-1631 (GOLD)
LABEL ENDPOINT: "DSCHRG CAN BUSS"

POS	CIRCUIT	COLOR	GA
A	CAN HIGH (DISCHARGE)	YELLOW	103349
B	CAN LOW (DISCHARGE)	GREEN	103349
C	114017	----	----

CHASSIS CAN BUSS (NETWORK CONNECTION)

CONNECTOR DEUTSCH: DT06-3S (GRY) FML
LOCK DEUTSCH: W3S-1939 (BLUE)
CONNECTOR DEUTSCH: DT04-3P-P007 (GRY)
CONNECTOR DEUTSCH: DT06-3S-P006 (GRY)
TERMINAL DEUTSCH:0462-201-1631 (GOLD)
LABEL ENDPOINT: "CHASSIS CAN BUSS"

POS	CIRCUIT	COLOR	GA
A	CAN HIGH (CHASSIS)	YELLOW	103349
B	CAN LOW (CHASSIS)	GREEN	103349
C	114017	----	----

SOURCE POWER

CONNECTOR DELPHI: 12015792 (TOWER/BLK)
TERMINAL DELPHI: 12124581 FEMALE (TIN)
SEAL DELPHI: 15324981 (BLUE 12-10GA)
LABEL ENDPOINT: "SOURCE PWR"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	10GXL	SPLPWR
2	SYSTEM GROUND	BLACK	10GXL	SPLGND

SOURCE AUXILIARY

CONNECTOR DELPHI: 12010973 (SHRD/BLK)
TERMINAL DELPHI: 12124582 MALE (TIN)
SEAL DELPHI: 15324980 (GRY 16-14GA)
LABEL ENDPOINT: "SOURCE AUXILIARY"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	14GXL	SPLPWR
2	SYSTEM GROUND	BLACK	14GXL	SPLGND

FOAM ITL-40 PWR

CONNECTOR DEUTSCH: DT04-2P (GRY) FML
LOCK DEUTSCH: W2P (ORG)
TERMINAL DEUTSCH: 0460-202-16141 (TIN)
CONNECTOR DEUTSCH: DT04-2P (GRY) FML
LOCK DEUTSCH: W2P (ORG)
114017 (X2)
LABEL ENDPOINT: "FOAM ITL-40"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	16GXL	SPLPWR
2	SYSTEM GROUND	BLACK	16GXL	SPLGND

OPTIONAL UV1100 DISPLAY PWR

CONNECTOR DELPHI: 12010973 (SHRD/BLK)
TERMINAL DELPHI: 12124582 MALE (TIN)
SEAL DELPHI: 15324982 (GRN 16-14GA)
LABEL ENDPOINT:"OPTIONAL UV1100 DISPLAY"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	14GXL	SPLPWR
2	SYSTEM GROUND	BLACK	14GXL	SPLGND

ITL-40 TANK TRANSDUCER

CONNECTOR DELPHI: 12162279 (FML GRY)
TERMINAL DEUTSCH: 12124075 (TIN)
LABEL ENDPOINT: "ITL TNK TRANSDCR"

POS	CIRCUIT	COLOR	GA
A	XDCR + REF	RED	BEL9364
B	XDCR - REF	BLACK	BEL9364
C	XDCR SIG REF	WHITE	BEL9364

SENSOR HARNESS

CONNECTOR DELPHI: 12015792 (TOWER/BLK)
TERMINAL DELPHI: 12124580 FEMALE (TIN)
SEAL DELPHI: 15324982 (GRN 16-14GA)
LABEL ENDPOINT: "SENSOR HARNESS"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	12GXL	SPLPWR
2	SYSTEM GROUND	BLACK	12GXL	SPLGND

MATRIX HARNESS

CONNECTOR DELPHI: 12015792 (TOWER/BLK)
TERMINAL DELPHI: 12124580 FEMALE (TIN)
SEAL DELPHI: 15324982 (GRN 16-14GA)
LABEL ENDPOINT: "MATRIX HARNESS"

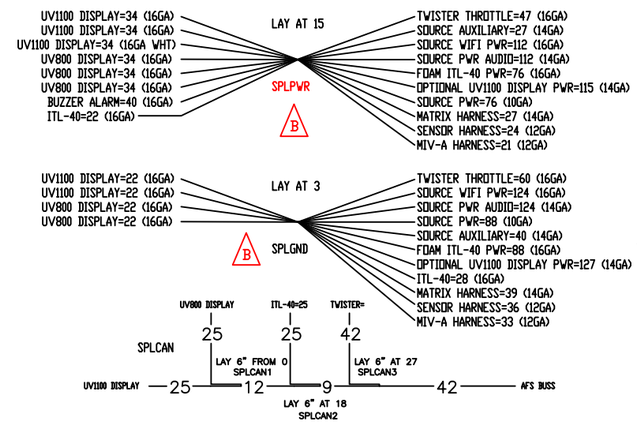
POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	14GXL	SPLPWR
2	SYSTEM GROUND	BLACK	14GXL	SPLGND

MIV-A HARNESS

CONNECTOR DELPHI: 12015792 (TOWER/BLK)
TERMINAL DELPHI: 12124580 FEMALE (TIN)
SEAL DELPHI: 15324982 (GRN 16-14GA)
LABEL ENDPOINT: "MIV-A HARNESS"

POS	CIRCUIT	COLOR	GA	
1	SYSTEM POWER	RED	12GXL	SPLPWR
2	SYSTEM GROUND	BLACK	12GXL	SPLGND

SPLICE REFERENCE



B

MASTER CIRCUIT LEGEND

	CIRCUIT	COLOR	GA	SPL	LENGTH
1	IGNITION	WHITE	16GXL	SPLPWR	34"
2	SYSTEM POWER	RED	16GXL	SPLPWR	39'
3	SYSTEM POWER	RED	14GXL	SPLPWR	24'
4	SYSTEM POWER	RED	12GXL	SPLPWR	4'
5	SYSTEM POWER	RED	10GXL	SPLPWR	7'
6	SYSTEM GROUND	BLACK	16GXL	SPLGND	33'
7	SYSTEM GROUND	BLACK	14GXL	SPLGND	28'
8	SYSTEM GROUND	BLACK	12GXL	SPLGND	6'
9	SYSTEM GROUND	BLACK	10GXL	SPLGND	8'
10	BUZZER ALARM OUTPUT	BLACK	16GXL	----	44"
11	DRIVER MODULE -	BLACK	16GXL	----	32"
12	XDCR REFERENCE	CABLE	BEL9364	----	152"
13	CAN (AFS)	CABLE	103349	SPLCAN	180"
14	NO IMPRINT	BLACK	18GXL	SPLCAN	6"
15	CAN (CHASSIS)	CABLE	103349	----	84"
16	CAN (DISCHARGE)	CABLE	103349	----	86"

B

REVISIONS

ECN	REV.	ZONE	CHANGED FROM	BY	DATE	APVD
-	A	-	INITIAL RELEASE	KA	1/10/20	JSJ
4956	A	-	REMOVED 30A CIRCUIT BREAKER, WHICH WILL NOW BE INTERNAL TO THE BREAKER BOX. ADDED CONNECTOR REFERENCE FOR 'AFS, DISCHARGE' & CHASSIS BUS LINES. REMOVED RESISTORS FROM 'AFS & DISCHARGE' BUSS LINES, . ADDED CONNECTOR FOR SOURCE TO PLUG INTO THE DISCHARGE HARNESS. REMOVED 'PANEL LIGHT' CIRCUITS AND ADDED 'FOAM ITL-40 PWR', WITH MATE CONNECTOR & 'OPTIONAL UV1100 DISPLAY PWR'. CHANGED GAUGE OF WIRE FOR ENDPOINTS 'SENSOR HARNESS' & 'MIV-A HARNESS' TO 12GA. UPDATED SPLICE DIAGRAHMS AND MASTER CIRCUIT LEGEND. UPDATED DRAWING NOTES FOR ENDPOINT LABELING.	KA	02/18/20	JSJ

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
[INCHES ARE FOR REFERENCE, ONLY]
TOLERANCE FOR MILLIMETER DIMENSIONS:
X: ±1
X.X: ±0.5
X.XX: ±0.25
X.XXX: ±0.125
ANGLES: ±0.25°
SURFACE TEXTURE IN µm Ra
REMOVE ALL SHARP EDGES, 0.25MAX

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FSG OF IDEX CORPORATION

HALE GODIVA Class1

MATERIAL
MADE FROM
FINISH
PROJECT AFS

TITLE
HARNESS ELECTRIC PANEL & ACC COMP

DRAWN	KA	SIZE B	DRAWING NUMBER 513-00144-006
APPROVED	JSJ		REV B
DATE	1/10/20	SCALE 1:2	SHEET 2 OF 2