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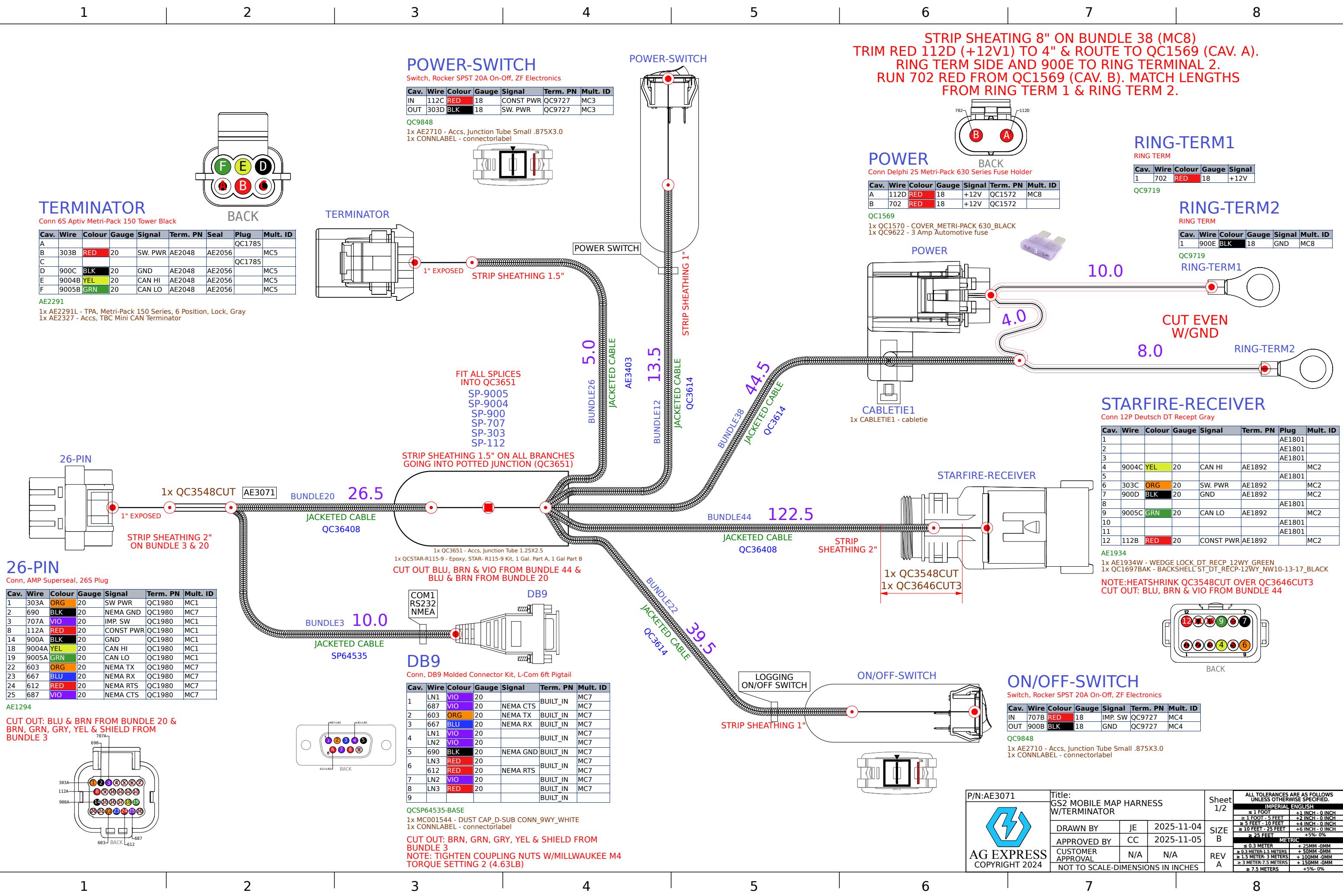
BB

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TERMINATOR

Conn 6S Aptiv Metri-Pack 150 Tower Black

Cav.	Wire	Colour	Gauge	Signal	Term. PN	Seal	Plug	Mult. ID
A							QC1785	
B	303B	RED	20	SW. PWR	AE2048	AE2056		MC5
C							QC1785	
D	900C	BLK	20	GND	AE2048	AE2056		MC5
E	9004B	YEL	20	CAN HI	AE2048	AE2056		MC5
F	9005B	GRN	20	CAN LO	AE2048	AE2056		MC5

AE2291
1x AE2291L - TPA, Metri-Pack 150 Series, 6 Position, Lock, Gray
1x AE2327 - Accs, TBC Mini CAN Terminator

POWER-SWITCH

Switch, Rocker SPST 20A On-Off, ZF Electronics

Cav.	Wire	Colour	Gauge	Signal	Term. PN	Mult. ID
IN	112C	RED	18	CONST PWR	QC9727	MC3
OUT	303D	BLK	18	SW. PWR	QC9727	MC3

QC9848
1x AE2710 - Accs, Junction Tube Small .875X3.0
1x CONNLABEL - connectorlabel

STRIP SHEATING 8" ON BUNDLE 38 (MC8)
TRIM RED 112D (+12V1) TO 4" & ROUTE TO QC1569 (CAV. A).
RING TERM SIDE AND 900E TO RING TERMINAL 2.
RUN 702 RED FROM QC1569 (CAV. B). MATCH LENGTHS
FROM RING TERM 1 & RING TERM 2.

POWER

Conn Delphi 2S Metri-Pack 630 Series Fuse Holder

Cav.	Wire	Colour	Gauge	Signal	Term. PN	Mult. ID
A	112D	RED	18	+12V	QC1572	MC8
B	702	RED	18	+12V	QC1572	

QC1569
1x QC1570 - COVER, METRI-PACK 630_BLACK
1x QC9622 - 3 Amp Automotive fuse

RING-TERM1

RING TERM

Cav.	Wire	Colour	Gauge	Signal
1	702	RED	18	+12V

QC9719

RING-TERM2

RING TERM

Cav.	Wire	Colour	Gauge	Signal	Mult. ID
1	900E	BLK	18	GND	MC8

QC9719

STARFIRE-RECEIVER

Conn 12P Deutsch DT Recept Gray

Cav.	Wire	Colour	Gauge	Signal	Term. PN	Plug	Mult. ID
1						AE1801	
2						AE1801	
3						AE1801	
4	9004C	YEL	20	CAN HI	AE1892		MC2
5						AE1801	
6	303C	ORG	20	SW. PWR	AE1892		MC2
7	900D	BLK	20	GND	AE1892		MC2
8						AE1801	
9	9005C	GRN	20	CAN LO	AE1892		MC2
10						AE1801	
11						AE1801	
12	112B	RED	20	CONST PWR	AE1892		MC2

AE1934
1x AE1934W - WEDGE LOCK DT_REC_12WY_GREEN
1x QC1697BAK - BACKSHELL ST_DT_REC-12WY_NW10-13-17_BLACK

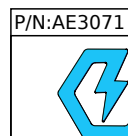
NOTE:HEATSHRINK QC3548CUT OVER QC3646CUT3
CUT OUT: BLU, BRN & VIO FROM BUNDLE 44

ON/OFF-SWITCH

Switch, Rocker SPST 20A On-Off, ZF Electronics

Cav.	Wire	Colour	Gauge	Signal	Term. PN	Mult. ID
IN	707B	RED	18	IMP. SW	QC9727	MC4
OUT	900B	BLK	18	GND	QC9727	MC4

QC9848
1x AE2710 - Accs, Junction Tube Small .875X3.0
1x CONNLABEL - connectorlabel



AG EXPRESS
COPYRIGHT 2024

P/N:AE3071			Title: GS2 MOBILE MAP HARNESS W/TERMINATOR			Sheet 1/2		ALL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED.	
DRAWN BY			JE			2025-11-04		IMPERIAL ENGLISH	
APPROVED BY			CC			2025-11-05		± 1 FOOT - 5 FEET	
CUSTOMER APPROVAL			N/A			N/A		± 1 INCH - 0 INCH	
NOT TO SCALE-DIMENSIONS IN INCHES								± 5 FEET - 10 FEET	
								± 4 INCH - 0 INCH	
								± 10 FEET - 25 FEET	
								± 6 INCH - 0 INCH	
								± 5 FEET	
								± 5% - 0%	
								METRIC	
								± 0.3 METER	
								± 25MM - 0MM	
								± 0.3 METER-1.5 METERS	
								± 50MM - 0MM	
								± 1.5 METER-3 METERS	
								± 100MM - 0MM	
								± 3 METER-7.5 METERS	
								± 150MM - 0MM	
								± 7.5 METERS	
								± 5% - 0%	

FIT ALL SPLICES INTO QC3651
SP-9005
SP-9004
SP-900
SP-707
SP-303
SP-112

STRIP SHEATHING 1.5" ON ALL BRANCHES GOING INTO POTTED JUNCTION (QC3651)

1x QC3651 - Accs, Junction Tube 1.25X2.5
1x QCSTAR-R115-9 - Epoxy, STAR- R115-9 Kit, 1 Gal. Part A, 1 Gal Part B
CUT OUT BLU, BRN & VIO FROM BUNDLE 44 & BLU & BRN FROM BUNDLE 20

26-PIN

Conn, AMP Superseal, 26S Plug

Cav.	Wire	Colour	Gauge	Signal	Term. PN	Mult. ID
1	303A	ORG	20	SW PWR	QC1980	MC1
2	690	BLK	20	NEMA GND	QC1980	MC7
3	707A	VIO	20	IMP. SW	QC1980	MC1
8	112A	RED	20	CONST PWR	QC1980	MC1
14	900A	BLK	20	GND	QC1980	MC1
18	9004A	YEL	20	CAN HI	QC1980	MC1
19	9005A	GRN	20	CAN LO	QC1980	MC1
22	603	ORG	20	NEMA TX	QC1980	MC7
23	667	BLU	20	NEMA RX	QC1980	MC7
24	612	RED	20	NEMA RTS	QC1980	MC7
25	687	VIO	20	NEMA CTS	QC1980	MC7

AE1294
CUT OUT: BLU & BRN FROM BUNDLE 20 & BRN, GRN, GRY, YEL & SHIELD FROM BUNDLE 3

DB9

Conn, DB9 Molded Connector Kit, L-Com 6ft Pigtail

Cav.	Wire	Colour	Gauge	Signal	Term. PN	Mult. ID
1	LN1	VIO	20	NEMA CTS	BUILT_IN	MC7
2	687	VIO	20	NEMA CTS	BUILT_IN	MC7
3	603	ORG	20	NEMA TX	BUILT_IN	MC7
4	667	BLU	20	NEMA RX	BUILT_IN	MC7
5	LN1	VIO	20		BUILT_IN	MC7
6	LN2	VIO	20		BUILT_IN	MC7
7	690	BLK	20	NEMA GND	BUILT_IN	MC7
8	LN3	RED	20		BUILT_IN	MC7
9	612	RED	20	NEMA RTS	BUILT_IN	MC7
10	LN2	VIO	20		BUILT_IN	MC7
11	LN3	RED	20		BUILT_IN	MC7

QCSP64535-BASE
1x MC001544 - DUST CAP_D-SUB CONN_9WY_WHITE
1x CONNLABEL - connectorlabel

CUT OUT: BRN, GRN, GRY, YEL & SHIELD FROM BUNDLE 3
NOTE: TIGHTEN COUPLING NUTS W/MILLWAUKEE M4 TORQUE SETTING 2 (4.63LB)

AA

BB

CC

DD

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1		2		3			
ALL - BILL OF MATERIALS							
Quantity	Length (")	Part No.	Part Type	Description	Supplier Part No.		
1		AE2291	Connector	Conn 6S Aptiv Metri-Pack 150 Tower Black	12052848		
1		QC1569	Connector	Conn Delphi 2S Metri-Pack 630 Series Fuse Holder	12066681		
2		QC9848	Connector	Switch Rocker SPST 20A On-Off ZF Electronics	629-AA111B11		
1		AE1934	Connector	Conn 12P Deutsch DT Recept Gray	DT04-12PA		
1		AE1294	Connector	Conn AMP Superseal 26S Plug	1473416-1		
1		QCSTAR-R115-9	Harness node attach part	Epoxy, STAR- R115-9 Kit, 1 Gal. Part A, 1 Gal Part B			
1		AE1934W	Harness node attach part	WEDGE LOCK_DT_RECP_12WY_GREEN	W12P		
1		AE2291L	Harness node attach part	TPA, Metri-Pack 150 Series, 6 Position, Lock, Gray	12052850		
	3	QC3588	Harness node attach part	Heat Shrink, 1/4 Dual Wall Black	CB-DWT(3X)-1/4-BK-STK		
2		QC3548CUT	Harness node attach part		CB-DWT(3X)-3/4-BLK-2		
1		QC1697BAK	Harness node attach part	BACKSHELL ST_DT_RECP-12WY_NW10-13-17_BLACK	1011-249-1205		
	3	QC3606	Harness node attach part	Heat Shrink, 3/16 Dual Wall Black	CB-DWT(3X)-3/16-BK-STK		
1		QC9622	Harness node attach part	3 Amp Automotive fuse	47003		
2		AE2710	Harness node attach part	Accs, Junction Tube Small .875X3.0	748966		
1		QC3646CUT3	Harness node attach part		CB-DWT(3X)-1.25-BLK3		
1		QC1570	Harness node attach part	COVER_METRI-PACK 630_BLACK	12033731		
1		QC3651	Harness node attach part	Accs, Junction Tube 1.25X2.5	665010		
1		AE2327	Harness node attach part	Accs, TBC Mini CAN Terminator	TBC		
2		QC1572	Terminal	Terminal Socket Delphi 630 Series 18-20GA Fuse Holder	12020156		
11		QC1980	Terminal	Terminal SKT Super Seal 1.0MM 7K Reel	3-1447221-4		
5		AE1892	Terminal	Terminal Pin Deutsch #16 open crimp	1060-16-0622		
4		QC9727	Terminal	Terminal Push on 22-18 GA Fully Insulated .250 F extra sleeve	30713		
4		AE2048	Terminal	Terminal SKT Metri Pack 150 18-20GA (3000 PER Reel)	12048074		
2		QC9719	Terminal	5/16 Insulated Ring Terminal	19057-0017		
4		AE2056	Seal	Seal, Aptiv, Metri-Pack 150, Blue, (20-22GA)	15324974		
2		QC1785	Other Part	Cavity Plug, Aptiv Red	12059168		
7		AE1801	Other Part	Cavity Plug, Deutsch, #12-16 White	114017		
	112	QC3614	Multicore	Cable 2 Conductor 18ga BLK	S182CT(16)-NUL		
	156	QC36408	Multicore	Cable 8 Conductor 1P20-6C20 BLK.	8(1P20-6C20)		
	8	AE3403	Multicore	Cable 4 conductor 1P20-2C20 BLK (QUAD CAN CABLE)	4C (1P20-2C20)		
1		QCSP64535	Multicore - ASM	Conn DB9 Molded Connector Kit L-Com 6ft Pigtail	SP64535		
	10	TXL18RED	Wire	Wire, 18 AWG TXL Red	WM18-2		

4

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ALL - WIRE TABLE

Wire	Part Number	Colour	Awg	Length (")	From Con.	From Cav.	From Term.	From Seal	To Con.	To Cav.	To Term.
112A	QC36408	RED	20	30	26-PIN	8	QC1980		SP-112	A	
112B	QC36408	RED	20	126	SP-112	B			STARFIRE-RECEIVER	12	AE1892
112C	QC3614	RED	18	16	SP-112	B			POWER-SWITCH	IN	QC9727
112D	QC3614	RED	18	54	SP-112	B			POWER	A	QC1572
303A	QC36408	ORG	20	30	26-PIN	1	QC1980		SP-303	A	
303B	AE3403	RED	20	8	TERMINATOR	B	AE2048	AE2056	SP-303	B	
303C	QC36408	ORG	20	126	SP-303	B			STARFIRE-RECEIVER	6	AE1892
303D	QC3614	BLK	18	16	SP-303	B			POWER-SWITCH	OUT	QC9727
603	QCSP64535	ORG	20	10	26-PIN	22	QC1980		DB9	2	BUILT_IN
612	QCSP64535	RED	20	10	26-PIN	24	QC1980		DB9	6	BUILT_IN
667	QCSP64535	BLU	20	10	26-PIN	23	QC1980		DB9	3	BUILT_IN
687	QCSP64535	VIO	20	10	26-PIN	25	QC1980		DB9	1	BUILT_IN
690	QCSP64535	BLK	20	10	26-PIN	2	QC1980		DB9	5	BUILT_IN
702	TXL18RED	RED	18	10	POWER	B	QC1572		RING-TERM1	1	
707A	QC36408	VIO	20	30	26-PIN	3	QC1980		SP-707	A	
707B	QC3614	RED	18	42	SP-707	B			ON/OFF-SWITCH	IN	QC9727
900A	QC36408	BLK	20	30	26-PIN	14	QC1980		SP-900	A	
900B	QC3614	BLK	18	42	SP-900	B			ON/OFF-SWITCH	OUT	QC9727
900C	AE3403	BLK	20	8	TERMINATOR	D	AE2048	AE2056	SP-900	B	
900D	QC36408	BLK	20	126	SP-900	B			STARFIRE-RECEIVER	7	AE1892
900E	QC3614	BLK	18	54	SP-900	B			RING-TERM2	1	
9004A	QC36408	YEL	20	30	26-PIN	18	QC1980		SP-9004	A	
9004B	AE3403	YEL	20	8	TERMINATOR	E	AE2048	AE2056	SP-9004	B	
9004C	QC36408	YEL	20	126	SP-9004	B			STARFIRE-RECEIVER	4	AE1892
9005A	QC36408	GRN	20	30	26-PIN	19	QC1980		SP-9005	A	
9005B	AE3403	GRN	20	8	TERMINATOR	F	AE2048	AE2056	SP-9005	B	
9005C	QC36408	GRN	20	126	SP-9005	B			STARFIRE-RECEIVER	9	AE1892
LN1	QCSP64535	VIO	20	4	DB9	4	BUILT_IN		DB9	1	BUILT_IN
LN2	QCSP64535	VIO	20	4	DB9	4	BUILT_IN		DB9	7	BUILT_IN
LN3	QCSP64535	RED	20	4	DB9	6	BUILT_IN		DB9	8	BUILT_IN

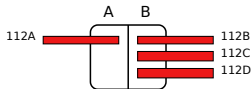
SP-112

Splice

Cav.	Wire	Colour	Gauge	From Tag	To Tag
A	112A	RED	20	SP-112	26-PIN
B	112B	RED	20	SP-112	STARFIRE-RECEIVER
	112C	RED	18	SP-112	POWER-SWITCH
	112D	RED	18	SP-112	POWER

SOLDER

1"- QC3588 - Heat Shrink, 1/4 Dual Wall Black



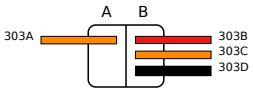
SP-303

Splice

Cav.	Wire	Colour	Gauge	From Tag	To Tag
A	303A	ORG	20	SP-303	26-PIN
B	303B	RED	20	SP-303	TERMINATOR
	303C	ORG	20	SP-303	STARFIRE-RECEIVER
	303D	BLK	18	SP-303	POWER-SWITCH

SOLDER

1"- QC3588 - Heat Shrink, 1/4 Dual Wall Black



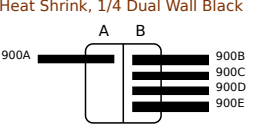
SP-900

Splice

Cav.	Wire	Colour	Gauge	From Tag	To Tag
A	900A	BLK	20	SP-900	26-PIN
B	900B	BLK	18	SP-900	ON/OFF-SWITCH
	900C	BLK	20	SP-900	TERMINATOR
	900D	BLK	20	SP-900	STARFIRE-RECEIVER
	900E	BLK	18	SP-900	RING-TERM2

SOLDER

1"- QC3588 - Heat Shrink, 1/4 Dual Wall Black



SP-9004

Splice

Cav.	Wire	Colour	Gauge	From Tag	To Tag
A	9004A	YEL	20	SP-9004	26-PIN
B	9004B	YEL	20	SP-9004	TERMINATOR
	9004C	YEL	20	SP-9004	STARFIRE-RECEIVER

SOLDER

1"- QC3606 - Heat Shrink, 3/16 Dual Wall Black



SP-9005

Splice

Cav.	Wire	Colour	Gauge	From Tag	To Tag
A	9005A	GRN	20	SP-9005	26-PIN
B	9005B	GRN	20	SP-9005	TERMINATOR
	9005C	GRN	20	SP-9005	STARFIRE-RECEIVER

SOLDER

1"- QC3606 - Heat Shrink, 3/16 Dual Wall Black



SP-707

Splice

Cav.	Wire	Colour	Gauge	From Tag	To Tag
A	707A	VIO	20	SP-707	26-PIN
B	707B	RED	18	SP-707	ON/OFF-SWITCH

SOLDER

1"- QC3606 - Heat Shrink, 3/16 Dual Wall Black



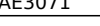
HARNESS NOTES

- SUBSTITUTIONS MUST BE APPROVED BY ENGINEERING.
- ALL THE LENGTHS LOCATED IN THE LEAD CHART ARE FOR REFERENCE ONLY.
- HARNESS SHALL BE LABELED W/AG EXPRESS IDENTIFICATION, DATE OF MANUFACTURE & AG EXPRESS PART NUMBER INCLUDING THE REVISION LEVEL W/TAPE (2 WRAPS MINIMUM). APPLY LABEL NEAR (WITHIN 3"/75MM, TYPICAL) CONNECTOR AE1294.
- IF CUTTING OUT WIRE IT MUST BE COVERED W/A BLACK SEMI-RIGID POLYOLEFIN HEAT SHRINK SLEEVE W/ADHESIVE, UNLESS OTHERWISE SPECIFIED.
- CONNECTOR AE1934 MUST BE COVERED W/A BLACK SEMI-RIGID POLYOLEFIN HEAT SHRINK SLEEVE W/ADHESIVE, UNLESS OTHERWISE SPECIFIED.
- ALL LABELS PERTAINING TO CONNECTOR DESIGNATIONS ON BRANCH W/JACKETED CABLE SHALL BE APPLIED AROUND THE BRANCH WITHIN 50MM (2") OF RESPECTIVE CONNECTOR (2 WRAPS MINIMUM).
- DIMENSIONS IN INCHES.
- EACH BREAKOUT MAY BE FREE OF SHEATHING 25MM (1") FROM THE BACK OF THE CONNECTOR, UNLESS OTHERWISE SPECIFIED. SHEATHING SECTIONS LOCATED ON BREAKOUTS THAT ARE ASSOCIATED W/A BACKSHELL SHALL EXTEND UP TO AND BE ASSEMBLED TO ANY RESPECTIVE BACKSHELL PER THE MANUFACTURER'S SPECIFICATIONS.
- DIMENSIONS TO SPLICES ARE FOR REFERENCE ONLY, BUT ARE INCLUDED IN THE OVERALL LENGTH OF THE SEGMENT IN WHICH THEY ARE LOCATED.
- ALL SPLICES SHALL BE PROCESSED UTILIZING THE PREFERRED SONIC WELD METHOD WHEN POSSIBLE. SPLICES THAT CANNOT BE SONIC WELDED SHALL BE PROCESSED UTILIZING THE PREFERRED SOLDER METHOD. ALL SPLICES SHALL BE COVERED WITH A BLACK SEMI-RIGID POLYOLEFIN HEAT SHRINK SLEEVE WITH ADHESIVE, UNLESS OTHERWISE SPECIFIED.
- FILL ALL UNUSED CAVITIES OF ALL SEALED CONNECTORS W/APPROPRIATE MANUFACTURER RECOMMENDED CAVITY PLUGS, UNLESS OTHERWISE SPECIFIED.
- ALL TERMINALS & CONNECTORS MUST BE PROPERLY SEATED.
- WHEN USING POTTED JUNCTIONS, VERIFY HEAT SHRINK IS COVERED ON ALL SPLICES BEFORE TAPING SPLICES TOGETHER. FILL POTTED JUNCTION W/EPOXY KIT QCSTAR-R115-9 & ALLOW TO CURE 24HRS.
- 100% CIRCUIT TEST TO BE PERFORMED BY MANUFACTURE.

LEGEND:	
	CONNECTOR NODE # X-001
	SPLICE NODE SP-1
	START OR STOP BUNDLE NODE
	HEATSHRINK

REVISION TABLE

Revision	Comments	Date and Time	Modified by
A	REFERENCE OF ORIGINAL	2025-12-22 14:39:21	jimmy Enos

P/N:AE3071  AG EXPRESS COPYRIGHT 2024	Title: GS2 MOBILE MAP HARNESS W/TERMINATOR			Sheet 2/2	ALL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED. IMPERIAL ENGLISH <table><tr><td>± 1 FOOT</td><td>+1 INCH - 0 INCH</td></tr><tr><td>± 5 FEET - 10 FEET</td><td>+4 INCH - 0 INCH</td></tr><tr><td>± 10 FEET - 25 FEET</td><td>+6 INCH - 0 INCH</td></tr><tr><td>± 25 FEET</td><td>+5% - 0%</td></tr></table> METRIC <table><tr><td>± 0.3 METER</td><td>+ 25MM - 0MM</td></tr><tr><td>± 0.3 METER-1.5 METERS</td><td>+ 50MM - 0MM</td></tr><tr><td>± 1.5 METER-3 METERS</td><td>+ 100MM - 0MM</td></tr><tr><td>± 3 METER-7.5 METERS</td><td>+ 150MM - 0MM</td></tr><tr><td>± 7.5 METERS</td><td>+5% - 0%</td></tr></table>	± 1 FOOT	+1 INCH - 0 INCH	± 5 FEET - 10 FEET	+4 INCH - 0 INCH	± 10 FEET - 25 FEET	+6 INCH - 0 INCH	± 25 FEET	+5% - 0%	± 0.3 METER	+ 25MM - 0MM	± 0.3 METER-1.5 METERS	+ 50MM - 0MM	± 1.5 METER-3 METERS	+ 100MM - 0MM	± 3 METER-7.5 METERS	+ 150MM - 0MM	± 7.5 METERS	+5% - 0%
	± 1 FOOT	+1 INCH - 0 INCH																					
	± 5 FEET - 10 FEET	+4 INCH - 0 INCH																					
	± 10 FEET - 25 FEET	+6 INCH - 0 INCH																					
	± 25 FEET	+5% - 0%																					
	± 0.3 METER	+ 25MM - 0MM																					
	± 0.3 METER-1.5 METERS	+ 50MM - 0MM																					
	± 1.5 METER-3 METERS	+ 100MM - 0MM																					
	± 3 METER-7.5 METERS	+ 150MM - 0MM																					
	± 7.5 METERS	+5% - 0%																					
DRAWN BY	JE	2025-11-04	SIZE B																				
APPROVED BY	CC	2025-11-05	REV A																				
CUSTOMER APPROVAL	N/A	N/A																					
NOT TO SCALE-DIMENSIONS IN INCHES																							

1						2						3						4						5						6						7						8					
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