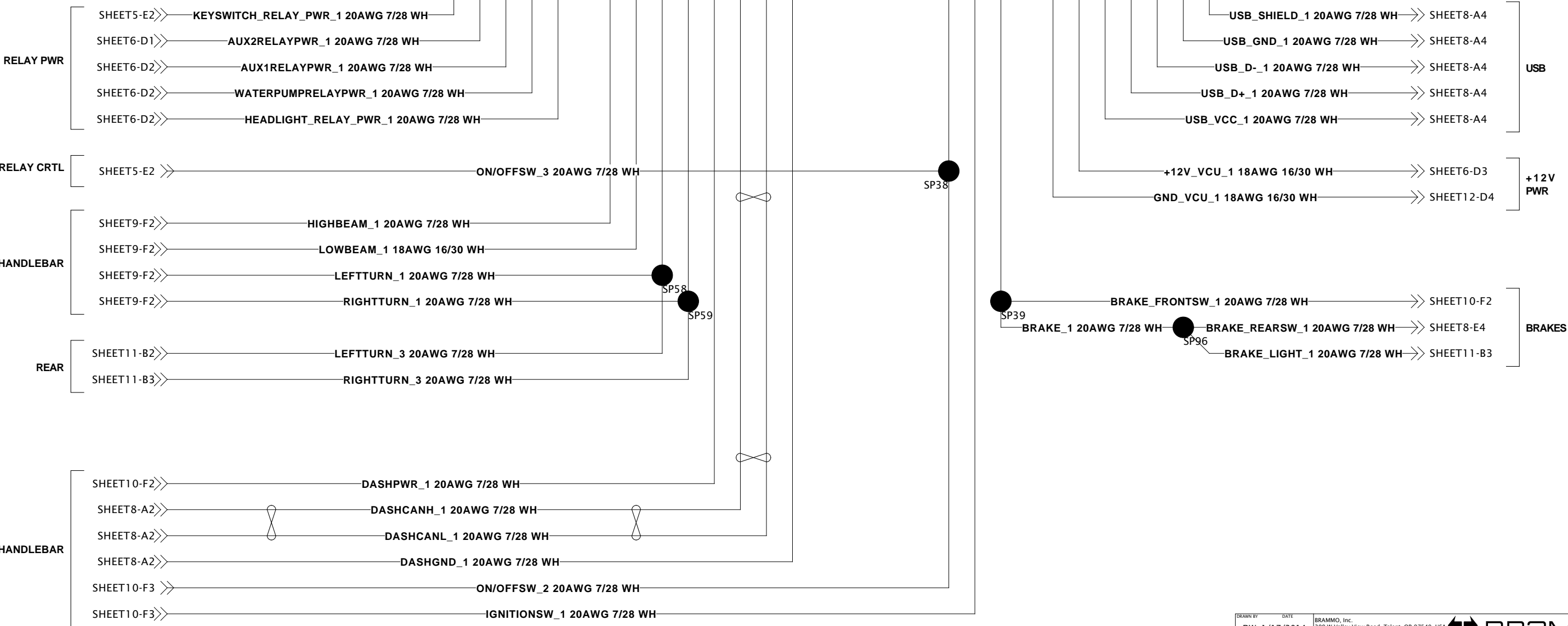
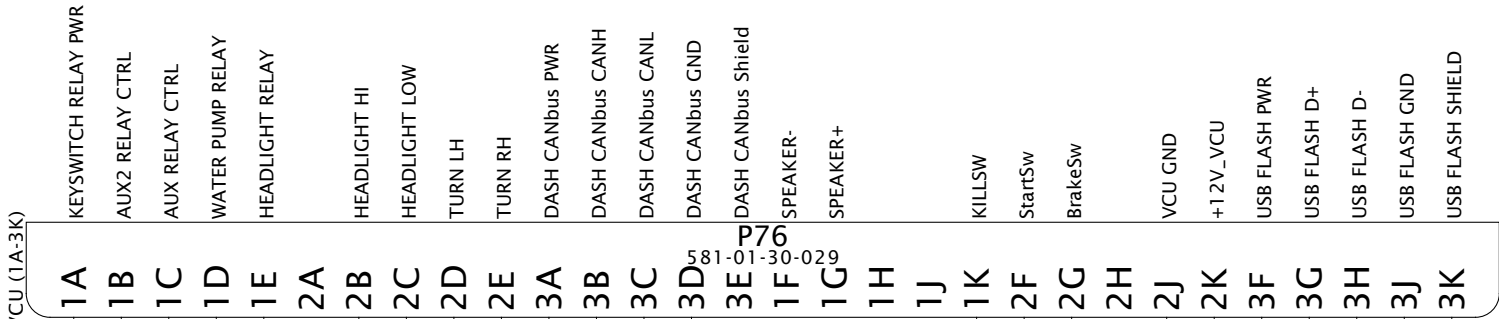
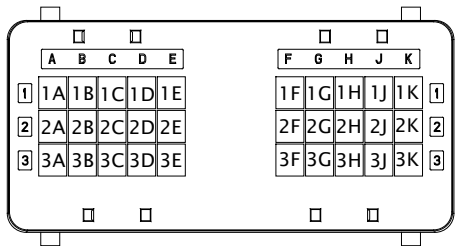

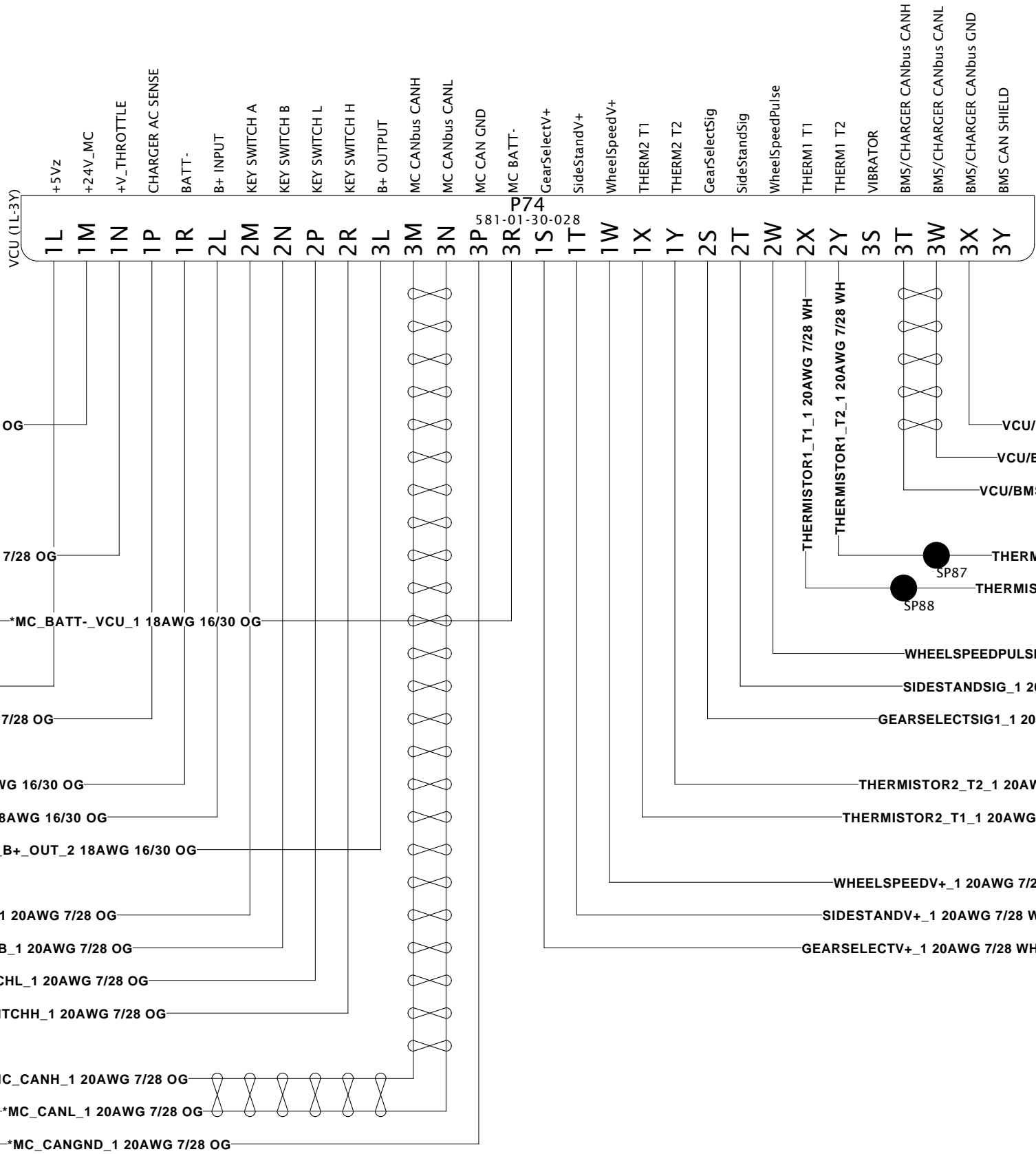
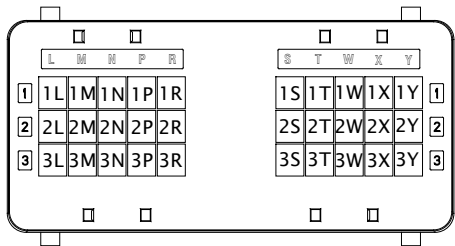


REVISION NOTE TABLE		
REVISION	DESCRIPTION	DATE
01	INITIAL PRODUCTION RELEASE	NOT RELEASED
02	PRODUCTION RELEASE CANDIDATE 2	1/17/2014




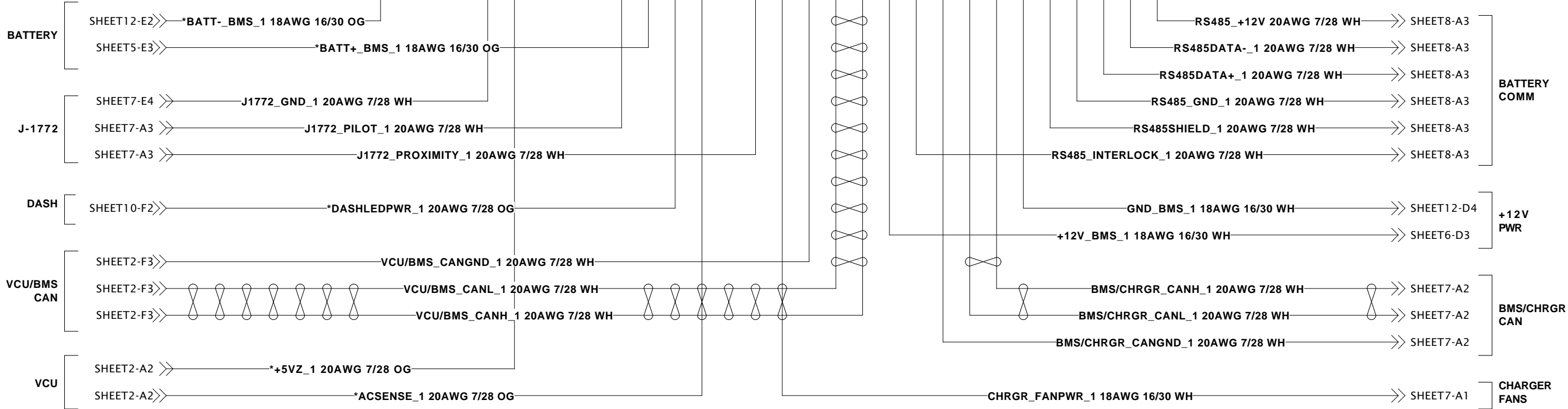
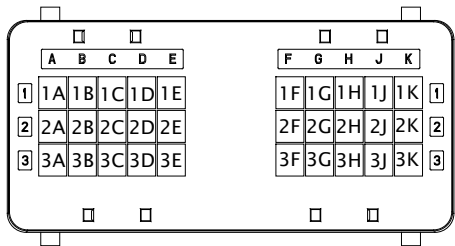
VEHICLE CONTROL UNIT CONNECTOR(1A-3K)

DRAWN BY	DATE	BRAMMO, Inc. 300 W Valley View Road, Talent, OR 97540, USA Phone: 541.482.9555 Fax: 541.552.0414			BRAMMO	
DW	1/17/2014					
CHECKED BY	DATE	DESCRIPTION				
JK	1/17/2014	WIRING DIAGRAM				
APPROVED BY	DATE	DOCUMENT NO.	REV.	PROJECT		
RG	1/17/2014	71505440	02	2014 EMPULSE		
SIZE	THE INFORMATION CONTAINED HEREON SHALL BE CONSIDERED THE SOLE PROPERTY OF BRAMMO, INC. AND THE RECIPIENT THEREOF AGREES NOT TO DISCLOSE SAID INFORMATION TO PARTIES OUTSIDE THE RECIPIENT'S ORGANIZATION, AND NOT TO USE OR TO DUPLICATE SAID INFORMATION FOR ANY PURPOSE EXCEPT AS SPECIFIED BY BRAMMO, INC. THIS DOCUMENT IS BY BRAMMO, INC. THIS DOCUMENT IS LOANED IN CONFIDENCE, SUBJECT TO RETURN UPON DEMAND.					SHEET NO.
B						1 of 13



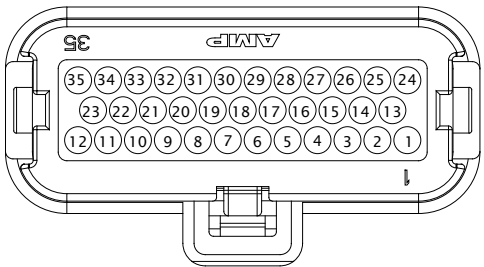
VEHICLE CONTROL UNIT
CONNECTOR (1L-3Y)

DRAWN BY DW	DATE 1/17/2014	BRAMMO, Inc. 300 W Valley View Road, Talent, OR 97540, USA Phone: 541.482.9555 Fax: 541.552.0414		 BRAMMO	
CHECKED BY JK	DATE 1/17/2014	DESCRIPTION WIRING DIAGRAM			
APPROVED BY RG	DATE 1/17/2014	DOCUMENT NO. 71505440	REV. 02	PROJECT 2014 EMPULSE	
SIZE B	THE INFORMATION CONTAINED HEREON SHALL BE CONSIDERED THE SOLE PROPERTY OF BRAMMO, INC. AND THE RECIPIENT THEREOF AGREES NOT TO DISCLOSE SAID INFORMATION TO PARTIES OUTSIDE THE RECIPIENT'S ORGANIZATION, AND NOT TO USE OR TO DUPLICATE SAID INFORMATION FOR ANY PURPOSE EXCEPT AS SPECIFIED BY BRAMMO, INC. THIS DOCUMENT IS BY BRAMMO, INC. THIS DOCUMENT IS LOANED IN CONFIDENCE, SUBJECT TO RETURN UPON DEMAND.				SHEET NO. 2 of 13



BATTERY MANAGEMENT SYSTEM

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DW	1/17/2014				
CHECKED BY	DATE	DESCRIPTION			
JK	1/17/2014	WIRING DIAGRAM			
APPROVED BY	DATE	DOCUMENT NO.	REV.	PROJECT	
RG	1/17/2014	71505440	02	2014 EMPULSE	
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B					



MOTOR CONTROLLER

1
KEYSWITCH

2
CAN TERMINATOR

3
CONTACTOR1 COIL-

4
CONTACTOR1 COIL+

5
ENCODER U

6
KEYSWITCH

7
CONTACTOR2 COIL-

8
CONTACTOR2 COIL+

9
DIGITAL INPUT 6

10
KEYSWITCH

11
CONTACTOR3 COIL-

12
CONTACTOR3 COIL+

13
CAN HI

14
ENCODER A

15
ENCODER GND

16
CAN HI DEVICE

17
ENCODER V

18
FORWARD

19
FS1

20
DIGITAL INPUT 5

21
ENCODER SIN

22
POTENTIOMETER 1 WIPER

23
POTENTIOMETER 2 WIPER

24
CAN LO

25
ENCODER B

26
ENCODER POWER

27
CAN LO DEVICE

28
CAN PWR

29
ENCODER W

30
REVERSE

31
SEAT

32
DIGITAL INPUT 7

33
THERMISTOR+

34
POTENTIOMETER 1 PWR

35
ENCODER COS

SHEET5-E1>>> *KEYSWITCH_2 18AWG 16/30 OG

SHEET8-C3>>> *MC_CANH_2 20AWG 7/28 OG

SHEET8-C2>>> *MC_CANL_2 20AWG 7/28 OG

SHEET10-F3>>> *THROTTLE1SIGNAL_1 20AWG 7/28 OG

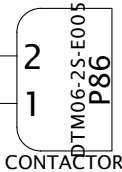
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SHEET10-F3>>> *THROTTLE_ZPS_1 20AWG 7/28 OG

SHEET2-A3>>> *+24V_MC_1 20AWG 7/28 OG

*CONTACTORCOIL+_1 18AWG 16/30 OG

*CONTACTORCOIL-_1 18AWG 16/30 OG



CONTACTOR

SHEET12-B1>>> *MOTOR_THERMISTOR_1 20AWG 7/28 OG

*MC_BATT-_THERMISTOR_1 20AWG 7/28 WH

*ENCODERGND_1 20AWG 7/28 BK


*ENCODERPWR_1 20AWG 7/28 RD

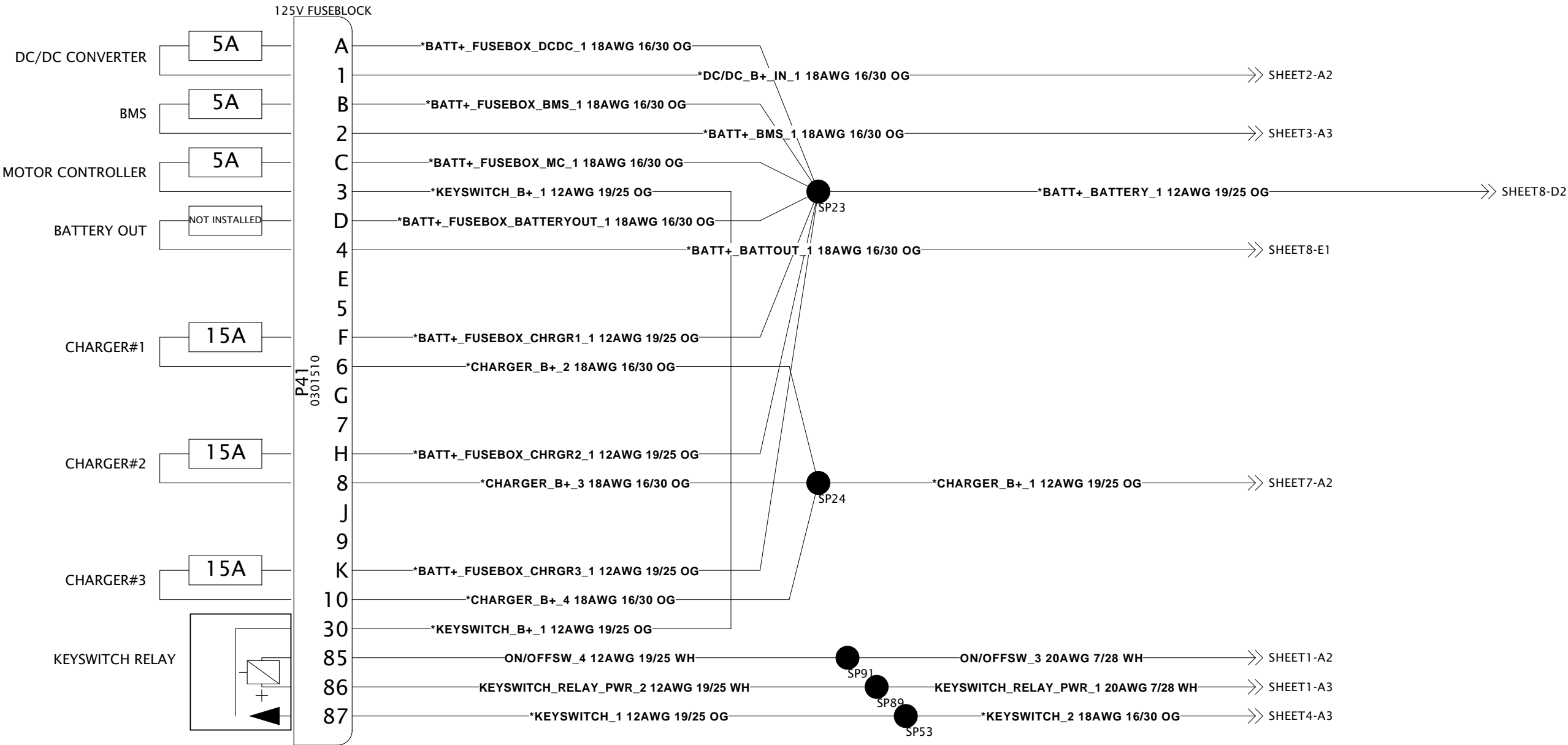
*ENCODERSIN_1 20AWG 7/28 DB

SHEET12-B1>>> *MC_BATT-_EC_SHLD_1 22AWG 7/30 DG


*MC_BATT-_EC_SHLD_2 22AWG 7/30 DG

MOTOR CONTROLLER

DRAWN BY DW 1/17/2014		BRAMMO, Inc. 300 W Valley View Road, Talent, OR 97540, USA Phone: 541.482.9555 Fax: 541.552.0414		 BRAMMO		
CHECKED BY JK 1/17/2014		DESCRIPTION WIRING DIAGRAM				
APPROVED BY RG 1/17/2014		DOCUMENT NO. 71505440	REV. 02	PROJECT 2014 EMPULSE		
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125V FUSEBLOCK

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CHECKED BY JK	DATE 1/17/2014	DESCRIPTION WIRING DIAGRAM			
APPROVED BY RG	DATE 1/17/2014	DOCUMENT NO. 71505440	REV. 02	PROJECT 2014 EMPULSE	
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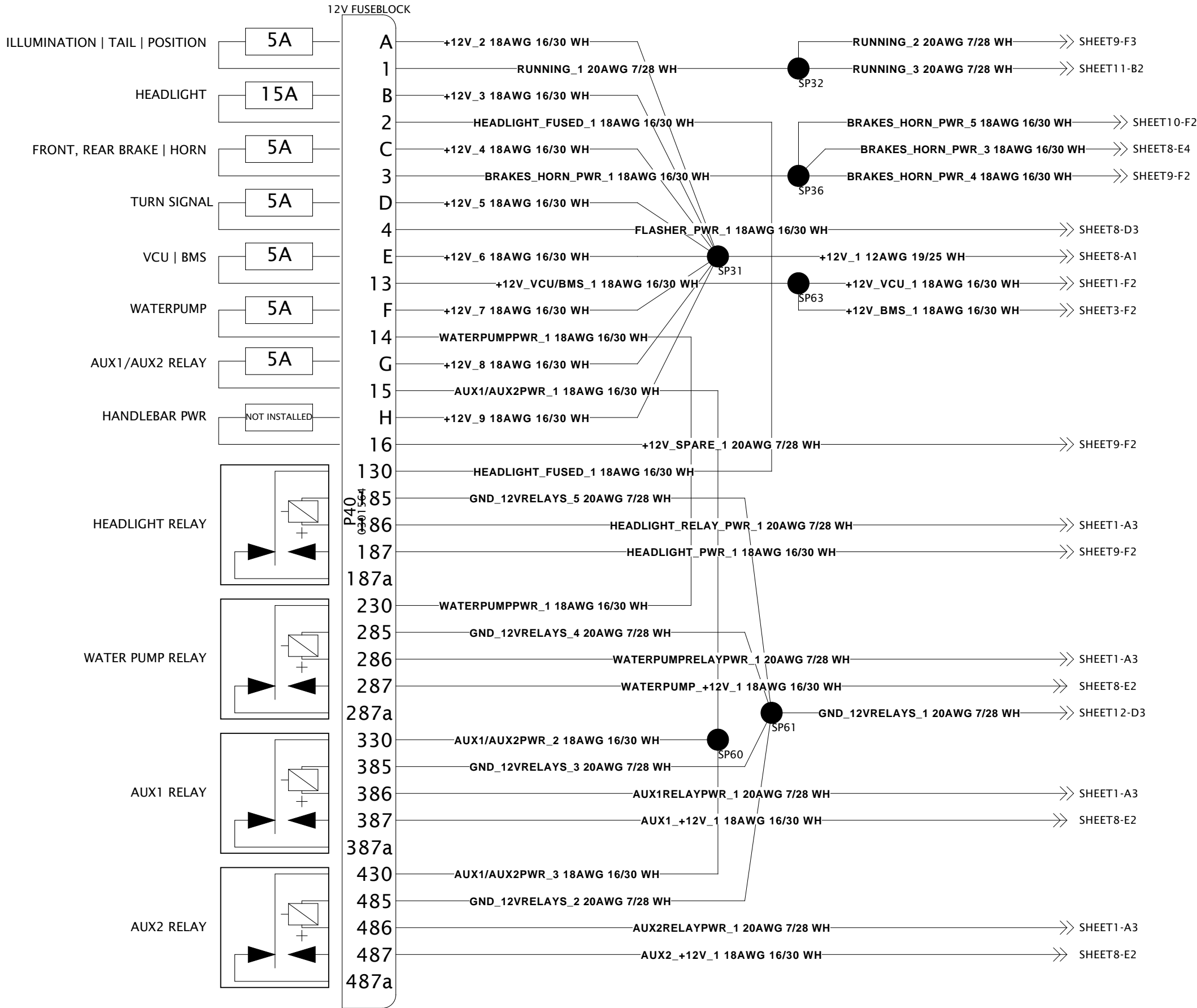
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12V FUSEBLOCK

DRAWN BY	DATE	BRAMMO, Inc. 300 W Valley View Road, Talent, OR 97540, USA Phone: 541.482.9555 Fax: 541.552.0414				BRAMMO
DW	1/17/2014					
CHECKED BY	DATE	DESCRIPTION				
JK	1/17/2014	WIRING DIAGRAM				
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B						6 of 13

4

3

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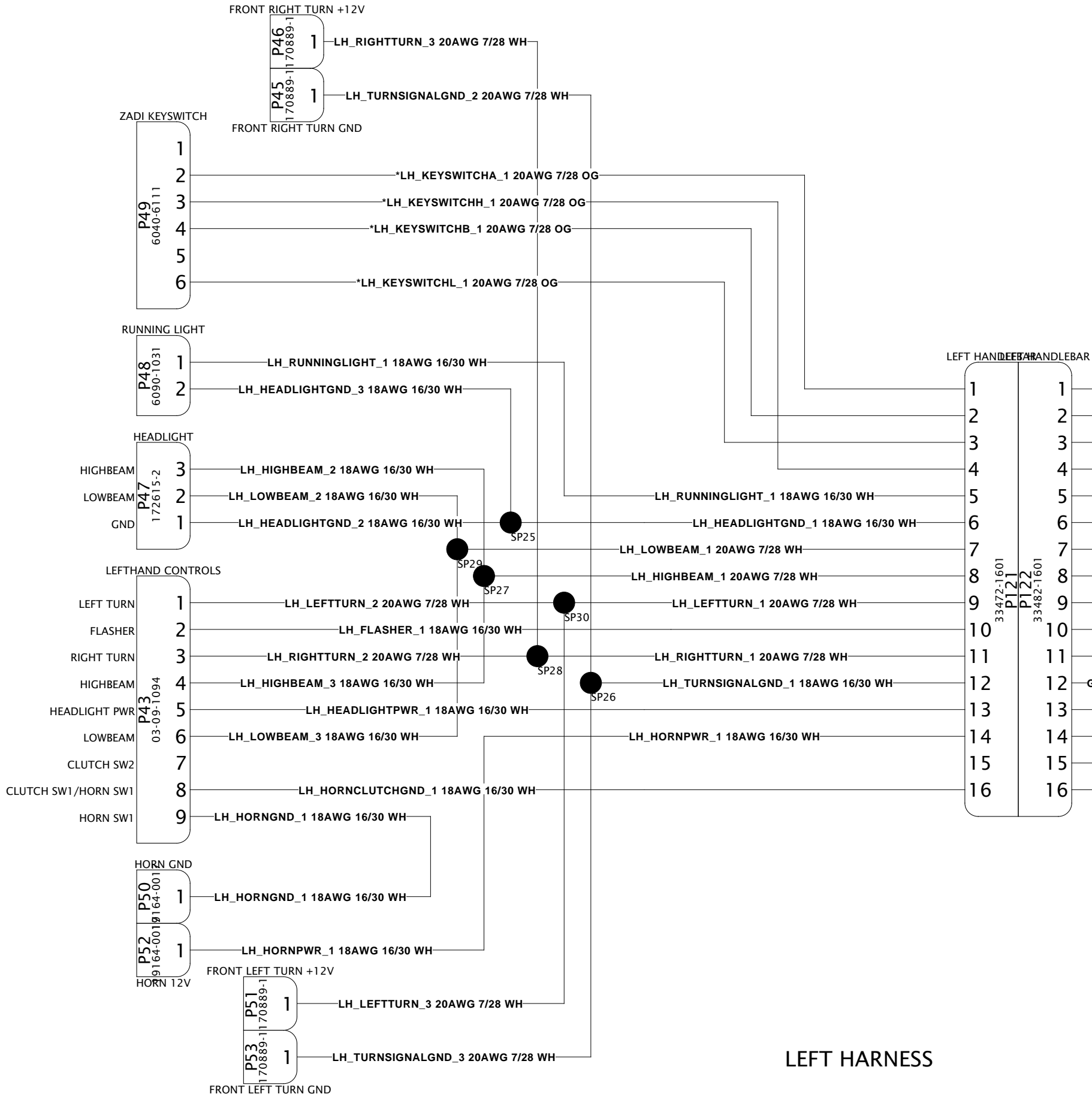
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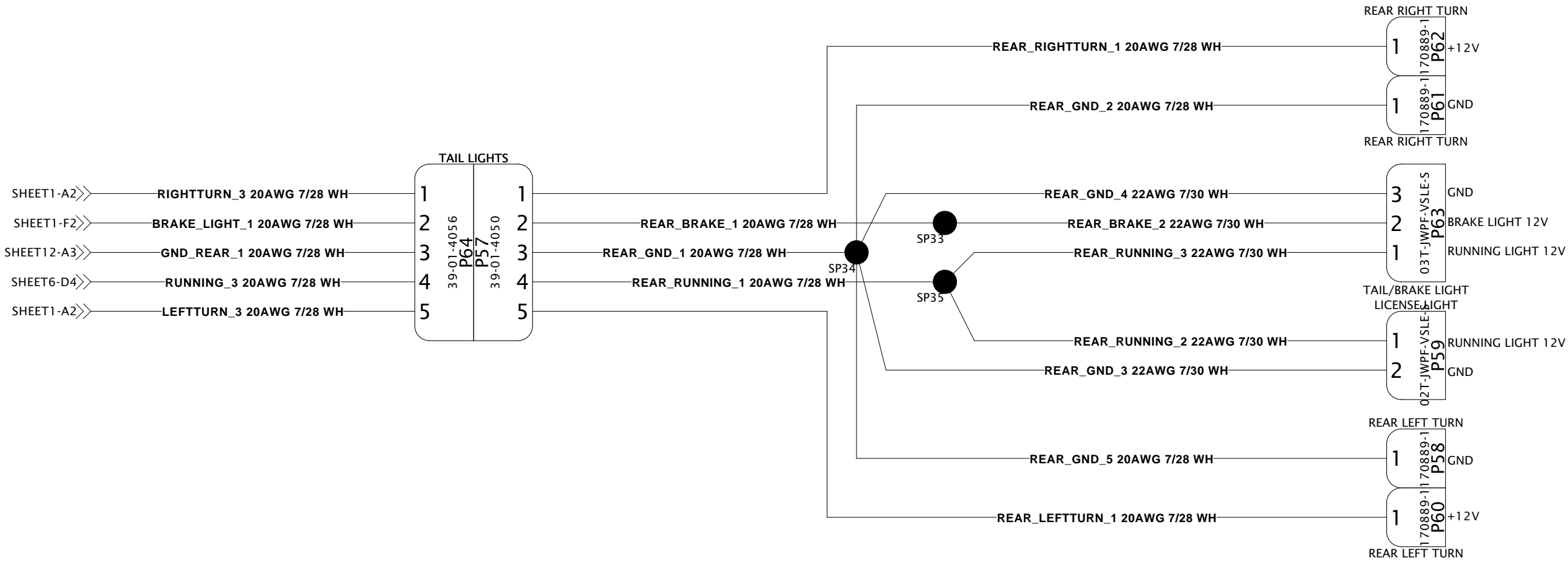
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LEFT HARNESS

DRAWN BY	DATE	BRAMMO, Inc.	300 W Valley View Road, Talent, OR 97540, USA	Phone: 541.482.9555 Fax: 541.552.0414	
CHECKED BY	DATE	DESCRIPTION			
JK	1/17/2014	WIRING DIAGRAM			
APPROVED BY	DATE	DOCUMENT NO.	REV.	PROJECT	
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B					9 of 13



REAR HARNESS

4

3

2

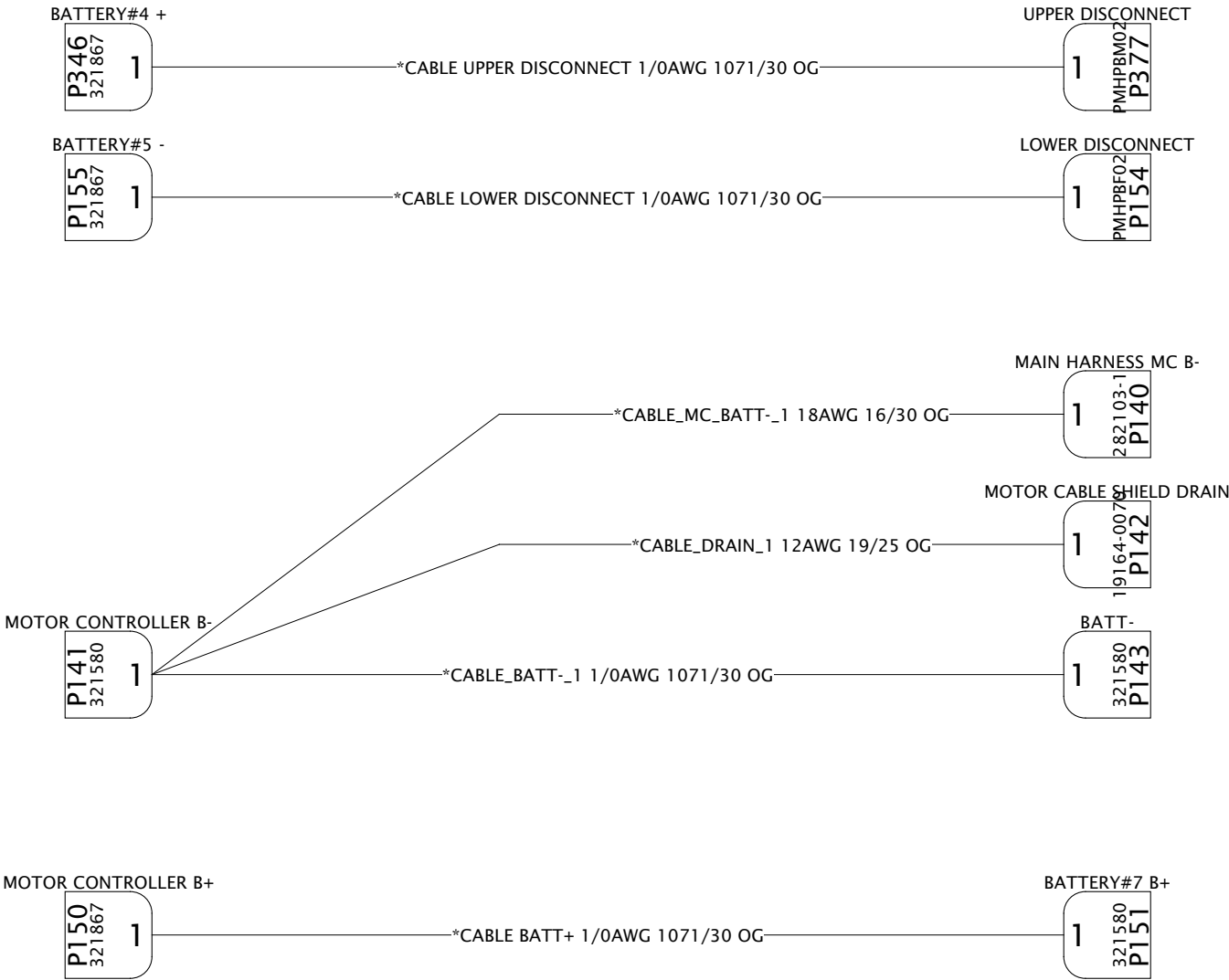
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BATTERY CABLES

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APPROVED BY RG 1/17/2014		DOCUMENT NO. 71505440	REV. 02			PROJECT 2014 EMPULSE
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