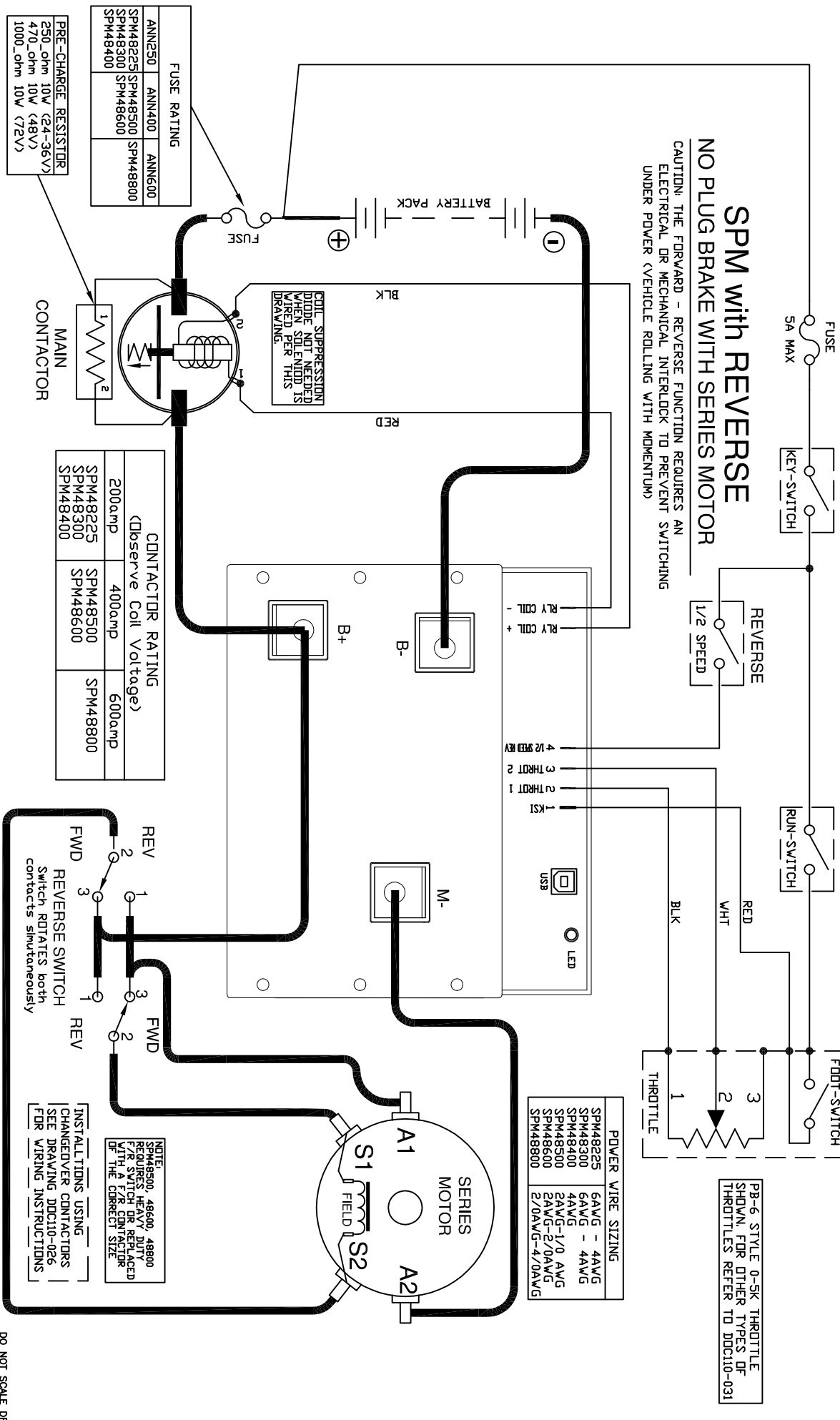


BATTERY VDC	12-48V 72V
FUSE VDC RATING	60V 100V

# SPM with REVERSE

CAUTION: THE FORWARD - REVERSE FUNCTION REQUIRES AN ELECTRICAL OR MECHANICAL INTERLOCK TO PREVENT SWITCHING UNDER POWER (VEHICLE ROLLING WITH MOMENTUM)



TAB	FUNCTION
1	KSI VOLTAGE THROTTLE
2	THROTTLE
3	1/2 SPEED REVERSE
4	BATTERY POSITIVE
B+	BATTERY NEGATIVE
B-	MOTOR MINUS

FUSE RATING		
ANN250	ANN400	ANN600
SPM48225/SPM48500	SPM48300	SPM48800
SPM48300	SPM48600	SPM48400

PRE-CHARGE RESISTOR	
250_ohm 10W (24-36V)	470_ohm 10W (48V)
1000_ohm 10W (72V)	

CONTACTOR RATING (Observe Coil Voltage)		
SPM48225	SPM48500	SPM48800
200amp	400amp	600amp
SPM48300	SPM48600	SPM48400

POWER WIRE SIZING	
SPM48225	6AWG - 4AWG
SPM48300	6AWG - 4AWG
SPM48400	4AWG
SPM48500	2AWG-1/0 AWG
SPM48600	2AWG-2/0AWG
SPM48800	2/0AWG-4/0AWG

REVERSE SWITCH  
SWITCH ROTATES BOTH CONTACTS SIMULTANEOUSLY

NOTE: SPM48500, 48600, 48800 REQUIRES HEAVY DUTY F&R SWITCH OR REPLACED WITH A F&R SWITCH OF THE CORRECT SIZE

INSTALLATIONS USING CHANGED/OVER CONTACTORS SEE DRAWING DDC110-026 FOR WIRING INSTRUCTIONS

### NOTES:

- \* FUSES REQUIRED FOR ALL INSTALLATIONS
- \* DIODE REQUIRED ACROSS CONTACTORS / RELAYS
- \* PRE-CHARGE RESISTOR REQUIRED
- > ASSUMES PHOTO SWITCH IS OPEN WHEN THROTTLE OFF
- > WITHIN NOTICE
- > ALLTRAX MAKES NO WARRANTY AS TO THE ACCURACY, SUFFICIENCY OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED
- > SEE OPERATORS MANUAL FOR MORE INFORMATION

### REVISIONS

REV.	ECO.	DATE	APVD
B	032612	032712	RC
C	012513	012513	RC

DWG SCALE: 1:1

DRAWN	R CSUK	11/15/10
ENGR	D CROCKETT	11/15/10

PROPRIETARY  
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TITLE  
SPM - GENERIC W/ REVERSE  
Wiring Diagram

SIZE	DOCUMENT NO.	REV.
A	DOC110-004	C

PB-6 STYLE 0-5K THROTTLE SHOWN, FOR OTHER TYPES OF THROTTLES REFER TO DDC110-031