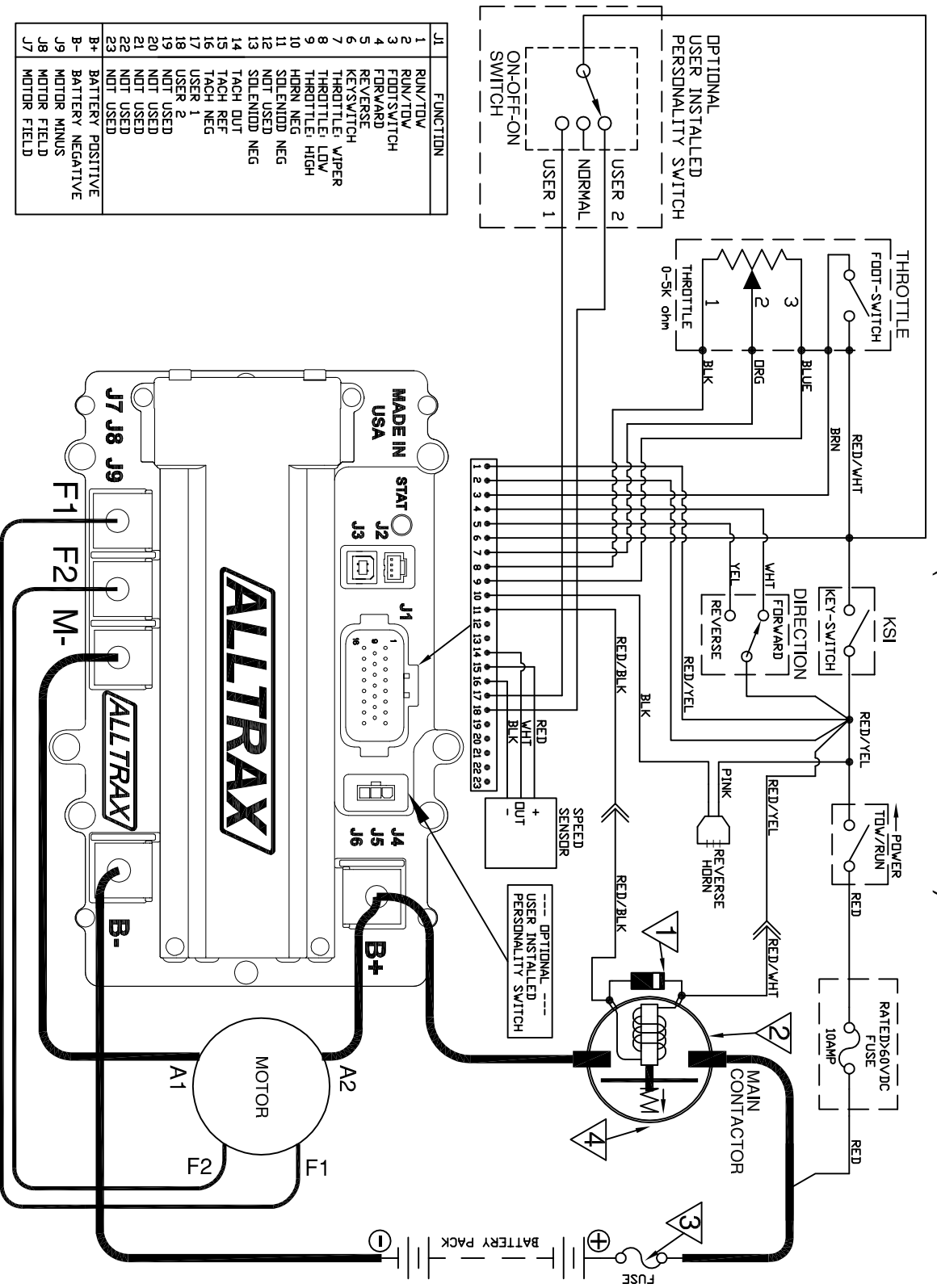


XCT/NCT to YAMAHA G19 & G22 W/ GE CONTROLLERS FOR SHUNT (SEPERATELY EXCITED) WOUND MOTORS

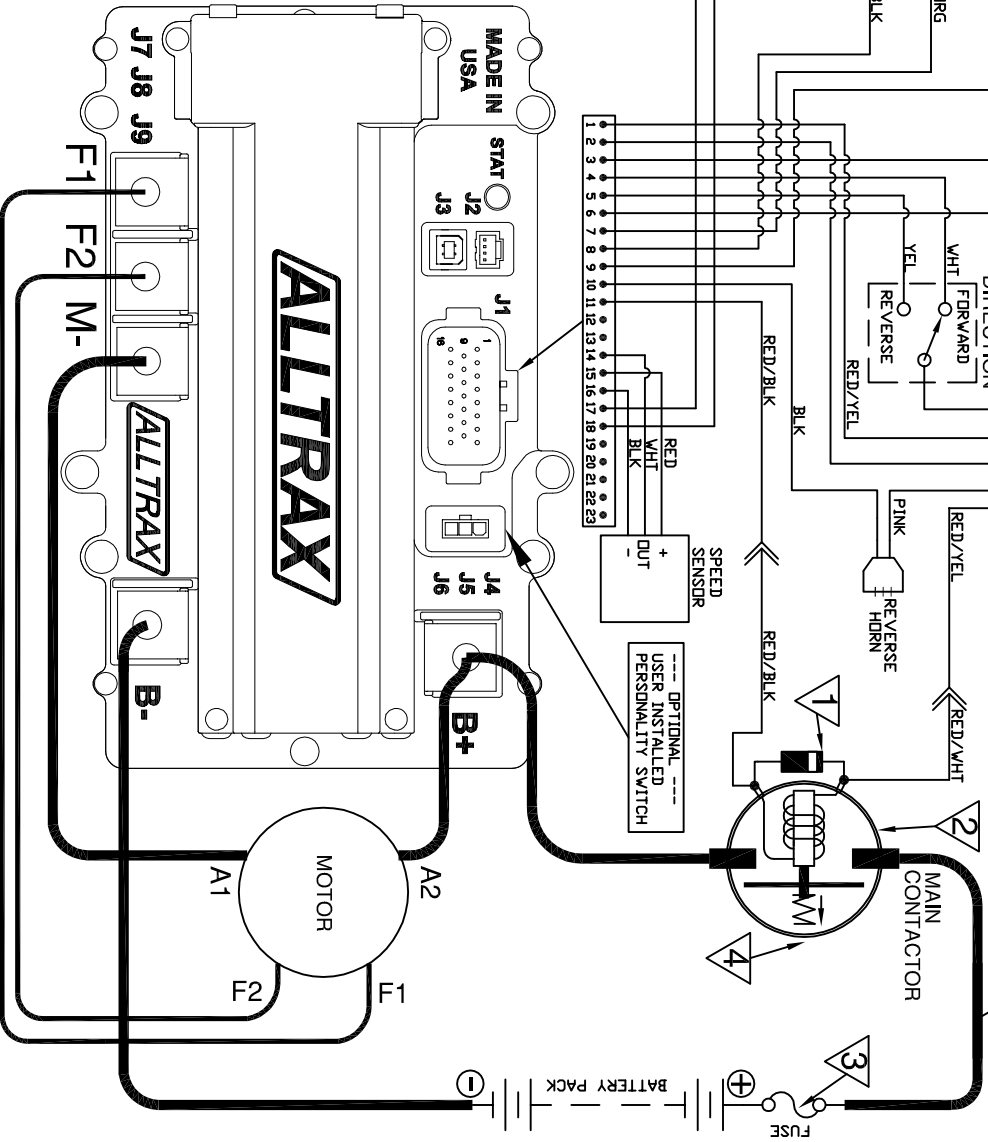
PART NO. DOC110-020



J1	FUNCTION
1	RUN/TOW
2	FOOT SWITCH
3	FORWARD
4	REVERSE
5	KEY SWITCH
6	THROTTLE VIPER
7	THROTTLE LOW
8	THROTTLE HIGH
9	HORN NEG
10	SOLENOID NEG
11	NOT USED
12	SOLENOID NEG
13	TACH OUT
14	TACH REF
15	TACH NEG
16	USER 1
17	USER 2
18	NOT USED
19	NOT USED
20	NOT USED
21	NOT USED
22	NOT USED
23	NOT USED
B+	BATTERY POSITIVE
B-	BATTERY NEGATIVE
J9	MOTOR FIELD
J8	MOTOR FIELD
J7	MOTOR FIELD

NOTES:

- * FUSES REQUIRED FOR ALL INSTALLATIONS
- * DIODE REQUIRED ACROSS COILS / RELAYS
- * TOW/RUN SWITCH PREVENTS REGEN WHILE TOWING
- > ASSUMES FOOT SWITCH IS OPEN WHEN THROTTLE OFF
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- > SEE OPERATORS MANUAL FOR MORE INFORMATION



1	DIODE RATING	CONTACTOR RATING
1N4001	DEM	200A
1N5408	DEM	200A
MR754	400A	400A

2	CONTACTOR RATING	CONTROLLER RATING
DEM	300A	300A DR 400A
200A	300A	400A TD 500A
400A	400A	400A TD 500A

3	FUSE	CONTROLLER RATING
ANN250	400A DR LESS	400A
ANN400	450A DR MORE	500A

4	PRE-CHARGE RESISTOR	NEEDED ON XCT UNITS
6AWG-4AWG	300A	400A
4AWG-2AWG	400A	500A
2AWG-1/0AWG	500A	500A

POWER WIRE RATING	CONTROLLER RATING
6AWG-4AWG	300A
4AWG-2AWG	400A
2AWG-1/0AWG	500A

DO NOT SCALE DRAWING

REVISIONS			DWG SCALE: NTS		
REV.	ECO.	DATE	APVD	ENGR	D/CROCKETT
E	092816	092816	RC		

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TITLE	
XCT to YAMAHA G19/22	
Wiring Diagram	
SIZE	DOC110-020
DOCUMENT NO.	
REV.	E