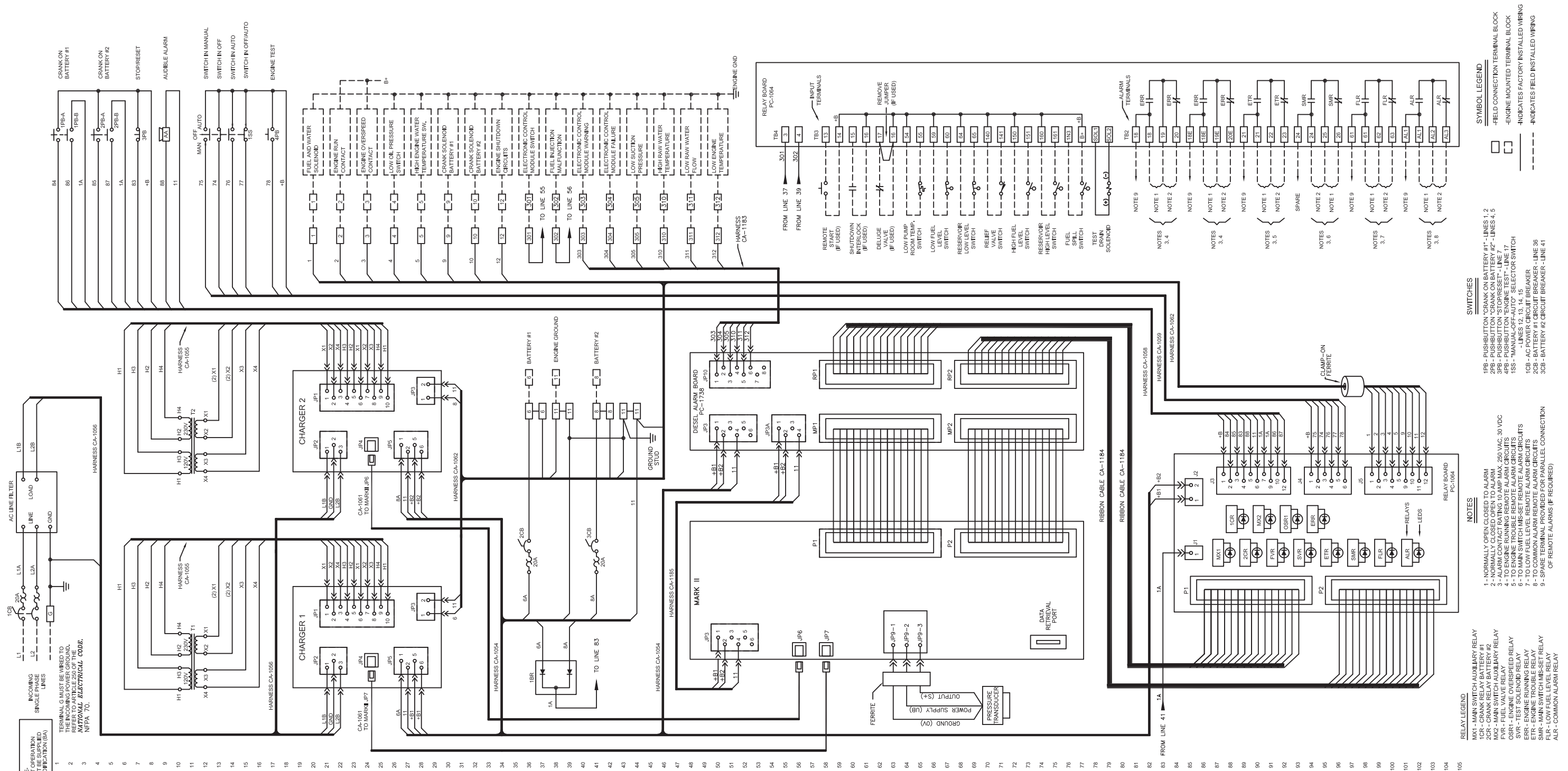




# Mark IIx Diesel Engine Fire Pump Controllers

# Wiring Schematic FTA1100J



NOTE:  
FOR 220-240 VOLT OPERATION  
CONTROLLER MUST BE SUPPLIED  
WITH FACTORY MODIFICATION (SM)

TERMINAL G MUST BE WIRED TO  
THE INCOMING POWER GROUND.  
REFER TO ARTICLE 250 OF THE  
NATIONAL ELECTRICAL CODE,  
NFPA 70.

**SYMBOL LEGEND**  
 -FIELD CONNECTION TERMINAL BLOCK  
 -ENGINE MOUNTED TERMINAL BLOCK  
 -INDICATES FACTORY INSTALLED WIRING

**SWITCHES**  
 1PB - PUSHBUTTON "CRANK ON BATTERY #1" - LINES 1, 2  
 2PB - PUSHBUTTON "CRANK ON BATTERY #2" - LINES 4, 5  
 3PB - PUSHBUTTON "STOP/RESET" - LINE 7  
 4PB - PUSHBUTTON "ENGINE TEST" - LINE 17  
 1SS - "MANUAL OFF-AUTO" SELECTOR SWITCH  
 1CB - AC POWER CIRCUIT BREAKER  
 2CB - BATTERY #1 CIRCUIT BREAKER - LINE 38  
 3CB - BATTERY #2 CIRCUIT BREAKER - LINE 41

**NOTES**  
 1 - NORMALLY OPEN CLOSED TO ALARM  
 2 - NORMALLY CLOSED TO ALARM  
 3 - ALARM CONTACT RATING 10 AMP MAX, 250 VAC, 30 VDC  
 4 - TO ENGINE RUNNING REMOTE ALARM CIRCUITS  
 5 - TO ENGINE TROUBLE REMOTE ALARM CIRCUITS  
 6 - TO ENGINE OVERSPEED REMOTE ALARM CIRCUITS  
 7 - TO LOW FUEL LEVEL REMOTE ALARM CIRCUITS  
 8 - TO COMMON ALARM REMOTE ALARM CIRCUITS  
 9 - SPARE TERMINAL PROVIDED FOR PARALLEL CONNECTION OF REMOTE ALARMS (IF REQUIRED)

**RELAY LEGEND**  
 MX1 - MAIN SWITCH AUXILIARY RELAY  
 1CR - CRANK RELAY BATTERY #1  
 2CR - CRANK RELAY BATTERY #2  
 M2 - MAIN SWITCH AUXILIARY RELAY  
 OSR - ENGINE OVERSPEED RELAY  
 SVR - ENGINE RUNNING RELAY  
 ETR - ENGINE TROUBLE RELAY  
 SMR - MAIN SWITCH MIS-SET RELAY  
 FLR - LOW FUEL LEVEL RELAY  
 ALR - COMMON ALARM RELAY

THIRD ANGLE PROJECTION	SIZE	B	BY	DATE
	DRAWN BY	TEF	11-04-02	
	FINAL APPROVAL	TEF	11-04-02	



UPDATED TITLE BLOCK		H	280454	JMW	TEF	08-26-19
REVISED PER FM & NFPA-20 ADDITIONAL ALARM REQUIREMENTS		G	255410	GFD	GFD	06-19-15
REVISION DESCRIPTION		REV	ECN NO	BY	APP	DATE
WIRING SCHEMATIC		FTA1100-J		DRAWING NUMBER		
MARK II DIESEL ENGINE FIRE PPUMP CONTROLLER STANDARD WIRING SCHEMATIC		WS1100-20		DWG REV H ECN NO 280454 SHEET 1 OF 1		

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