

- NOMENCLATURE**
- CLT - CRANK LENGTH TIMER
 - CS - CONTROL SWITCH
 - ETM - ELAPSED TIME METER
 - HWTL - HIGH WATER TEMPERATURE LIGHT
 - HWTR - HIGH WATER TEMPERATURE RELAY
 - LOPL - LOW OIL PRESSURE LIGHT
 - LOPR - LOW OIL PRESSURE RELAY
 - OCL - OVERCRANK LIGHT
 - OCR - OVERCRANK RELAY
 - OPBR - OIL PRESSURE BYPASS RELAY
 - OPBT - OIL PRESSURE BYPASS TIMER
 - OSL - OVERSPEED LIGHT
 - OSR - OVERSPEED RELAY
 - P1 - POTENTIOMETER 1 (ADJ. CLT - CRANK TIME)
 - P2 - POTENTIOMETER 2 (ADJ. OPBT - DELAY TIME)
 - PHWTL - PRE HIGH WATER TEMPERATURE LIGHT
 - PLOPL - PRE LOW OIL PRESSURE LIGHT
 - PR - PILOT RELAY
 - RIR - RECRANK INHIBIT RELAY
 - SR - STARTER RELAY
 - TR - TROUBLE RELAY

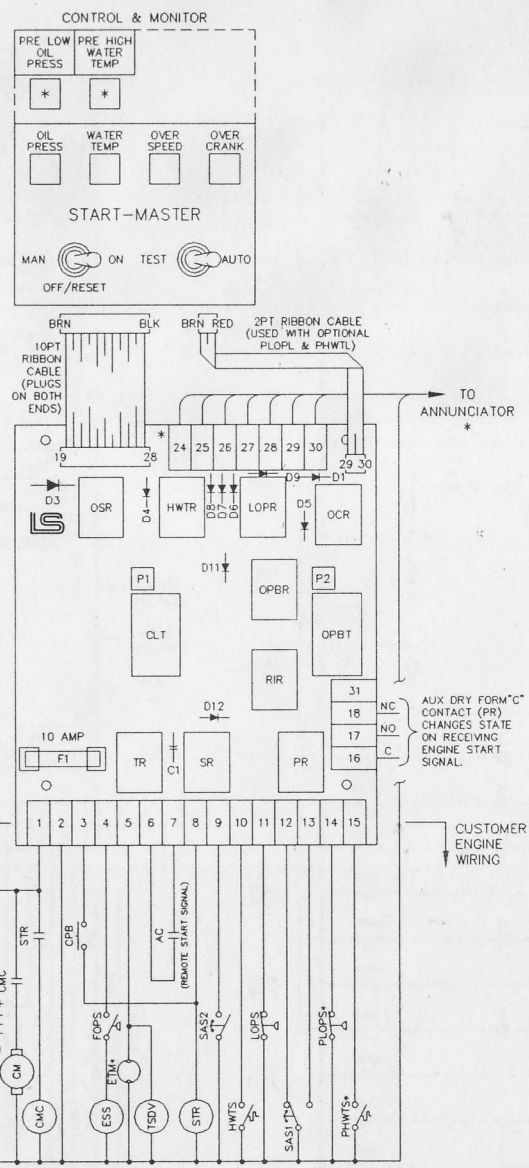
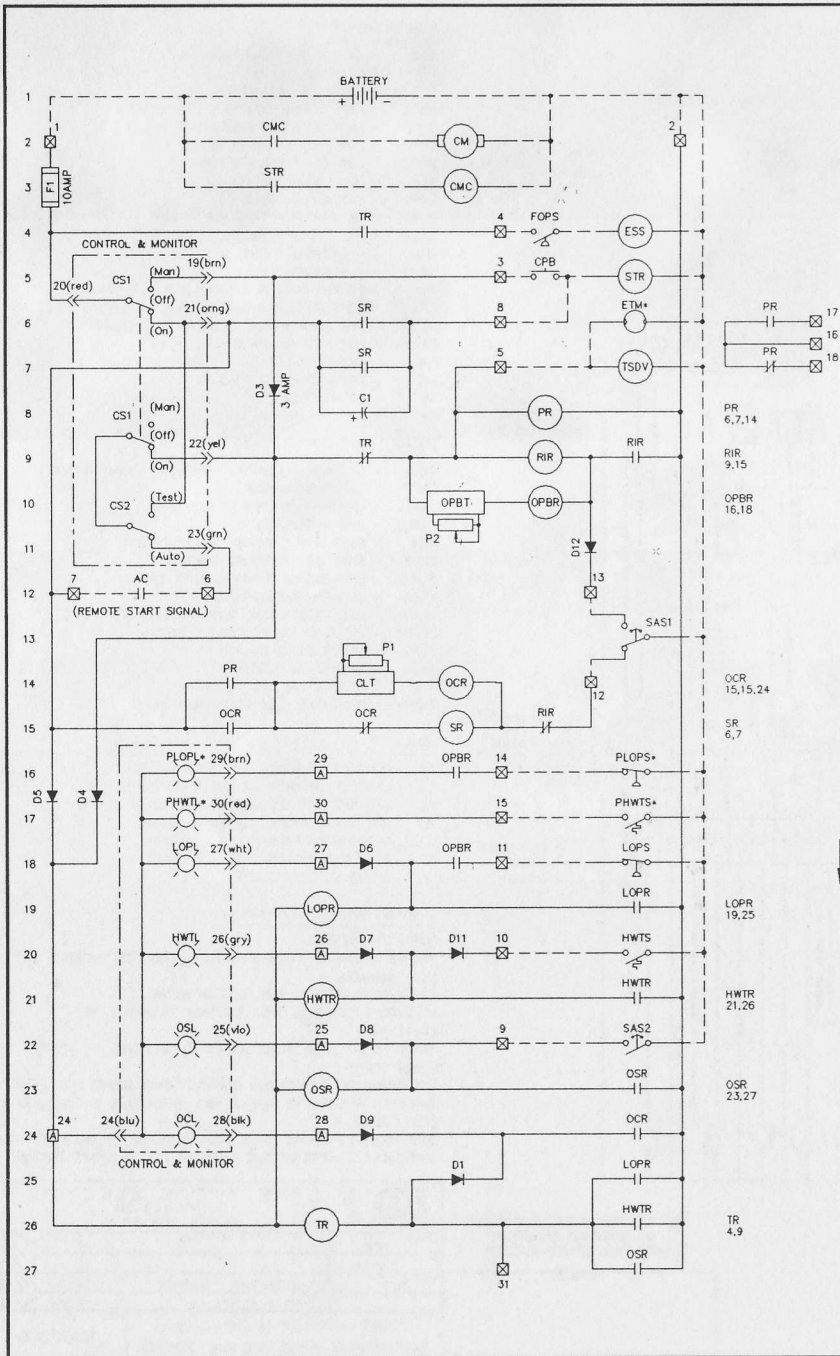
- ENGINE NOMENCLATURE**
- AC - ACTUATING CONTACT (REMOTE START SIGNAL)
 - CM - CRANKING MOTOR
 - CMC - CRANKING MOTOR CONTACTOR
 - CPB - CRANK PUSHBUTTON
 - ESS - EMERGENCY SHUTDOWN SOLENOID
 - FOPS - FUEL OIL PRESSURE SWITCH
 - HWTS - HIGH WATER TEMPERATURE SWITCH
 - LOPS - LOW OIL PRESSURE SWITCH
 - PHWTS - PRE HIGH WATER TEMPERATURE SWITCH
 - PLOPS - PRE LOW OIL PRESSURE SWITCH
 - SAS1 - UNDERSPEED SWITCH
 - SAS2 - OVERSPEED SWITCH
 - STR - STARTER RELAY
 - TSDV - THROTTLE SOLENOID DUMP VALVE

- NOTES**
- ☒ CUSTOMER CONNECTION TERMINAL BLOCK
 - ☐ LAKE SHORE CONNECTION TERMINAL BLOCK
 - Ⓜ ANNUNCIATOR CONNECTION TERMINAL BLOCK
 - Ⓨ CUSTOMER ENGINE TERMINAL BLOCK
 - CUSTOMER WIRING
 - ⤵ PLUG CONNECTOR
 - * OPTIONAL EQUIPMENT

- CONTROL SWITCH POSITIONS:**
- [CS1] OFF/RESET - PREVENTS ENGINE FROM STARTING & RESETS TROUBLE CKT.
 - [CS1] MANUAL - ENABLES ENGINE TO RUN, BUT MUST BE MANUALLY STARTED, WITH A CRANK PUSHBUTTON.
 - [CS1] ON - ARMS "TEST" AND "AUTO" CIRCUITS SELECTED BY [CS2]
 - [CS2] TEST - BYPASSES THE ACTUATING CONTACT ENERGIZING THE START CIRCUITS. RETURN TO "AUTO" WILL TERMINATE ENGINE RUN.
 - [CS2] AUTO - ALLOWS FOR NORMAL OPERATION. CLOSURE OF AC AUTOMATICALLY STARTS ENGINE, OPENING OF AC STOPS ENGINE.

USE LS ANNUNCIATOR MODEL'S 9902500 OR 9902600 WITH THIS START-MASTER.

LAKE SHORE ELECTRIC CORPORATION Bedford, Ohio U.S.A.		REVISIONS		BY	DATE
		SCALE NONE			
DATE	072679				
DRN	ZL	6	NEW DRAWING - CLARIFIED	TL	051689
APP'VD		4	ADD RIR AS STD	WMB	101486
TITLE				NO.	
START-MASTER (Multi-Crank)				9902200	
SCHEMATIC & WRING (STD Neg-Signals)					



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 - SAS1 - OVERSPEED SWITCH
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		SCALE NONE			
DATE	072679				
DRN	CK'D				
APP'D	6 NEW DRAWING - CLARIFIED		TL	051589	
	5 ADD RIR AS STD		WMB	101486	
TITLE START-MASTER (Single-Crank) SCHEMATIC & WIRING (STD Neg-Signals)					NO. 9902100