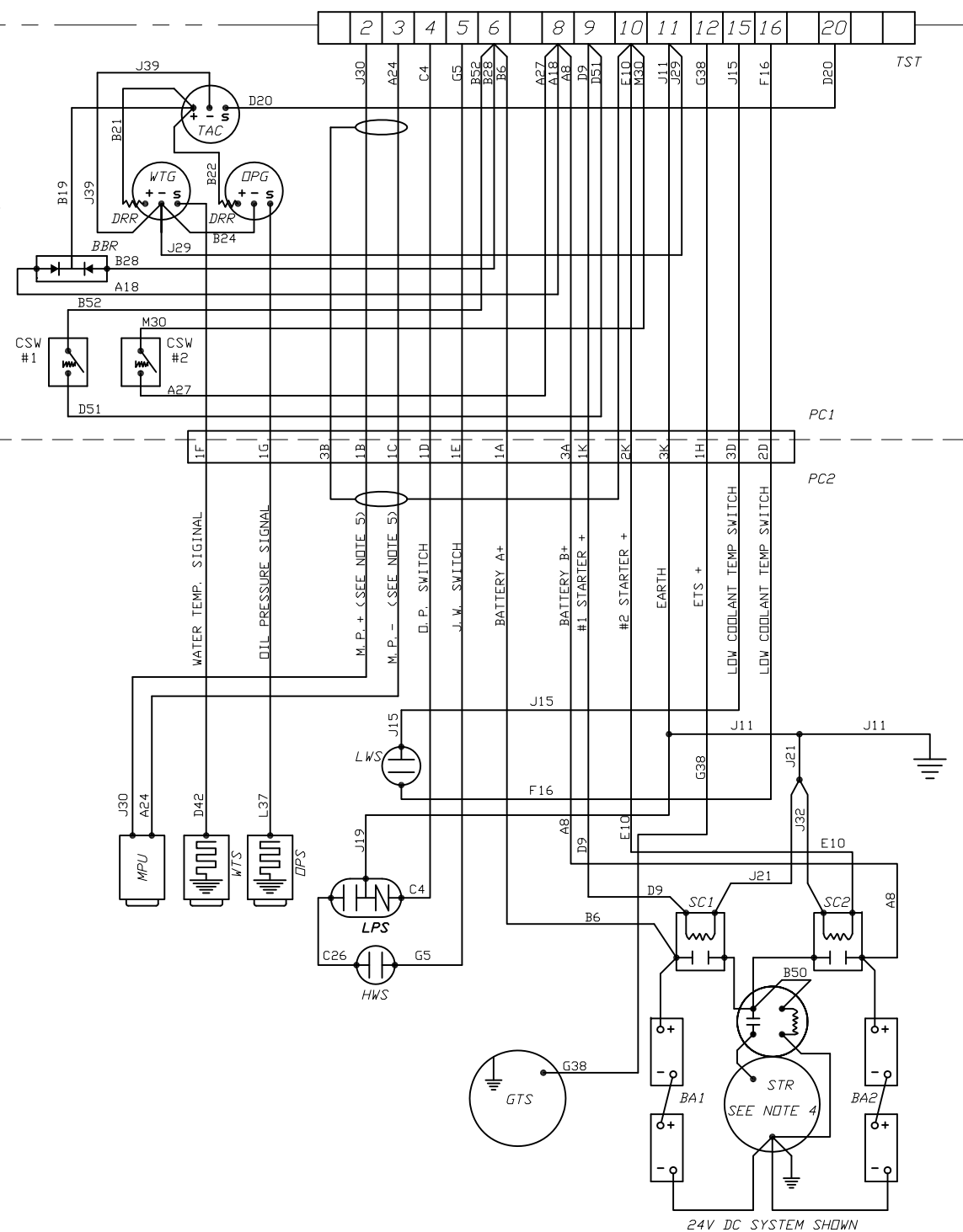


REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	RELEASED FOR PRODUCTION FROM REV. 2 REMOVED TPT, PLS AND NOTE 5.	116	SK	K7E	12JUL04
B	WATER TEMP/OIL PRESS GAUGE LABELS WERE REVERSED	1767	ASC	K7E	07AUG09
C	SWAPPED M. P. NEGATIVE AND POSITIVE UPDATED NOTES	5045	TWF	ASC	08JUN17

BY OTHERS
BY CLARKE

INSTRUMENT
PANEL

ENGINE



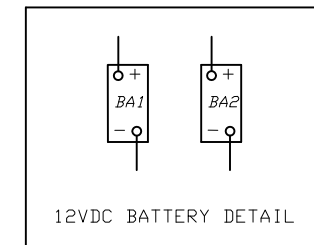
24V DC SYSTEM SHOWN

LEGEND

BA1 - BATTERY #1	DPG - PRESSURE GAUGE(LUBE)
BA2 - BATTERY #2	OPS - PRESSURE SENDER(LUBE)
BBR - BATTERY BRIDGE	PC1 - INSTRUMENT PANEL CONNECTOR
BIS - BATTERY ISOLATOR	PC2 - ENGINE HARNESS CONNECTOR
CSW - CRANK(MANUAL)SWITCH-BATT#1	SC1 - STARTER CONTACTOR BATT#1 (AUTO)
DRR - DROPPING RESISTOR(24V ONLY)	SC2 - STARTER CONTACTOR BATT#2 (AUTO/MAN)
ESR - ETS SOLENOID RELAY	STR - STARTER
GTS - GOVERNOR ETS SOLENOID	TAC - TACHOMETER - HOURMETER
HWS - HIGH JACKET WATER TEMPERATURE SWITCH N.D. 102°C (215°F)	TST - TERMINAL STRIP (CONTROLLER INTERCONNECT)
LPS - OIL PRESSURE 20PSI (1.38 BAR)	WTS - TEMPERATURE SENDER(WATER)
LWS - LOW JACKET WATER TEMPERATURE SWITCH N.D. 27°C (80°F)	WTG - TEMPERATURE GAUGE(WATER)
MPU - MAGNETIC PICK-UP	

COLOR CODE

A - WHITE	G - BLUE
B - RED	I - PINK
C - ORANGE	J - BLACK
D - YELLOW	K - BROWN
E - GREEN	L - GRAY
F - GREEN	M - PURPLE
G - BLUE	



NOTES:

- BROKEN LINE (---) SYMBOLS INDICATE COMPONENTS NOT SUPPLIED BY CLARKE.
- REFER TO ENGINE MODEL INSTALLATION DATA SHEET FOR SPECIFIC BATTERY AND CABLE SIZE REQUIREMENTS.
- 12 VOLT SYSTEM DOES NOT INCLUDE THE TWO (DR) DROPPING RESISTORS. RED WIRES (B) CONNECT DIRECTLY TO PG & TG RESPECTIVELY.
- SOME MODELS HAVE A STARTER THAT IS INTERNALLY GROUNDED, FOR THOSE THE BATTERY NEGATIVE CABLE (GRD) SHOULD BE ATTACHED TO THE ENGINE BLOCK (ALL PAINT SHOULD BE REMOVED TO BARE METAL)
- MAGNETIC PICKUP DETAILS
 - RESISTANCE: 1200 ± 20% OHMS @ 78° F.
 - INDUCTANCE: 420 mH (REF) MEASURED AT 1 KHz.
 - POLARITY: WHITE LEAD ('A24') NEGATIVE WITH RESPECT TO BLACK LEAD ('J30') WITH THE APPROACH OF A FERROUS TARGET.

CONTROLLED DRAWING

This is a registered part with a third party agency for use on an approved/listed fire pump driver. No substitutions are allowed. Consult engineering prior to and regarding any change.

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UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		DRWN	S. KORENBLIT	NAME	WIRING DIAGRAM
DECIMAL	MM IN	DATE	15SEP03	ENGR	K. J. KUNKLER
.X	±1.5 ±0.06	MATERIAL	XXXXXXX	PART NO.	U071056
.XX	±0.8 ±0.03	SIMILAR TO	U071016	SCALE	NTS
.XXX	±0.25 ±0.01	USED ON		UNITS	MM [INCH]
FRACTIONAL				PAGE	1
ANGULAR	±1/32 ±.5°			OF	1