



LEGEND

A	AMMETER (OPTIONAL)	AREA	11
ALT	ALTERNATOR		13
AS	AIR SWITCH		43
BS	BATTERY SENTRY		19
BTT	BLOCK TEMPERATURE SWITCH		23
BZ	BUZZER		25
CB1,2	CIRCUIT BREAKER		10,10
CR	CURRENT RELAY (MD ONLY)		62
CSM	CYCLE SENTRY MODULE		17
C1,C2	CAPACITOR,ALTERNATOR LIGHT		11,17
C3	CAPACITOR,FILTER (MD ONLY)		63
C4-C5	CAPACITOR,MOTOR START (MD ONLY)		65,66
C6,C7	CAPACITOR MOTOR RUN (MD ONLY)		64,64
C8	CAPACITOR FUEL SOL.RELAY		22
DR1-3	DEFROST RELAY		39,41,42,49
DS	DAMPER SOLENOID		49
D1-20(R)	DIODES (R - REMOTE)		7,14,14,14,15,15,16,17,19,18,20,22,29,29,32,34,39,44,48,48,49,49
ERR	ELECTRIC RELAY		20,29
ERR	ENGINE RESET RELAY		30,35
ET	ELECTRONIC THERMOMETER		55
ETS	ELECTRONIC DEF TERM THER		43
EUR	ELECTRIC UNLOADING RELAY (MD ONLY)		11,59
EUT	ELECTRIC UNLOADING TIMER (MD ONLY)		59
FLW	FUSE LINK WIRE (18 GAUGE)		10
FP	FUEL PUMP		23
FS	FUEL SOLENOID		21
FSR	FUEL SOLENOID RELAY		20,22
	USE AFTER (8/1/91)		
FW	FLYWHEEL RPM SENSOR		16
GP	GLOW PLUGS		4
HC	HEATER CONTACTOR		38,62
HIT	HEAT INITIATION TIMER		39
HMD	HOURLY METER - DIESEL		19
HME	HOURLY METER - ELECTRIC (OPT)		27,58
HMT	HOURLY METER - TOTAL UNIT HOURS (OPTIONAL)		57
HPCO	HIGH PRESSURE CUTOUT SWITCH		21
HS	HEAT SOLENOID		39
HTK	HIGH TEMPERATURE CUTOUT SWITCH		38
HTS	HIGH TEMPERATURE SENSOR (EEC ONLY)		38
HWT	HIGH WATER TEMPERATURE SWITCH		29
LOP	LOW OIL PRESSURE SWITCH - ENGINE		28
LSD	LOW SPEED DEFROST RELAY (R502 ONLY)		33,49
MC	MOTOR CONTACTOR		28,58,61
MSC	MOTOR START CONT(MD ONLY)		65,65,65,66,66
MSR	MOTOR START RELAY (MD ONLY)		63,65
OL	OVERLOAD RELAY		27,27,58
OR	ON RELAY (OPTIONAL)		11,12
PHR	PREHEAT RELAY		5,14
PL	PILOT LIGHTS (R - REMOTE)		
	1,1R - UNIT SHUTDOWN (RED)		9,11
	2,2R - ALTERNATOR FAULT (YELLOW)		15,15
	3,3R - CYCLE SENTRY(3R-OPT)(GREEN)		24
	4R - COOL MODE(OPT) (WHITE)		31
	5R - POWER CORD WARNING (OPT)(RED)		32
	6R - HIGH SPEED MODE(OPT) (BLUE)		32
	7R - HEAT MODE(OPT) (AMBER)		40
	8,8R - DEFROST MODE(8R-OPT) (YELLOW)		51,52
	9R - DEFROST MODE(OPT) (TAN)		52
	10R - UNIT ON(OPT) (GREEN)		53
	11R - WHISPER MODE (OPT) (YELLOW)		44
PRR	PRESSURE RELIEF RELAY		39,41,42,43
PS	PILOT SOLENOID		40
PT	PREHEAT THERMISTOR		16
RET	REMOTE ELECTRONIC DIGITAL THERMOMETER (OPT.)		56
RR	RUN RELAY		19,23
R1-15(R)	RESISTORS (R - REMOTE)		9,11,15,22,24,31,44,47,47,51,52,54,65,65,65,67
SM	STARTER MOTOR		9
SR	STARTER RELAY		7,15
SS	STARTER SOLENOID		8
SSDT	SOLID STATE DEFROST TIMER		41
SWR	SAFETY SWITCH RELAY		10,30
S	SWITCHES (R - REMOTE)		
	1a-d,1R(OPT)PREHEAT/START		4,8,14,30
	2,2R(OPT) ON/OFF		10,12
	3a-dR DIESEL/ELECTRIC		21,28,29,33
	4a,b CYCLE SENTRY/CONTINUOUS RUN		21,26
	5,5R MANUAL DEFROST		42,43
	6R WHISPER SWITCH (OPT)		43
	7R- ON/OFF SW. RECPT. BOX		10
	TEMPERATURE CONTROL MODULE		45
TCM	1K - THERMOSTAT RELAY HEAT/COOL		29,45
	2K - THERMOSTAT RELAY HIGH SPEED		33,46
TF	TRANSFORMER 230/208 (MD ONLY)		62
TS	THROTTLE SOLENOID		33
VR	VOLTAGE REGULATOR		16
WR	WHISPER RELAY (OPTIONAL)		32,43
(RELAYS SHOWN IN LOW SPEED COOL - POWER OFF)			

ENGINE OPERATION

CYCLE SENTRY

TEMP FALL ↓

2K IN

1K OUT

2K OUT

1K OUT

SET PT.

1K IN

2K OUT

1K IN

2K IN

TEMP RISE ↑

TEMP FALL ↓

2K IN

1K OUT

2K OUT

1K OUT

SET PT.

1K IN

2K OUT

1K IN

2K IN

TEMP RISE ↑

TEMP FALL ↓

2K IN

1K OUT

2K OUT

1K OUT

SET PT.

1K IN

2K OUT

1K IN

2K IN

TEMP RISE ↑

ELECTRIC OPERATION

TEMP FALL ↓

2K IN

1K OUT

2K OUT

1K OUT

SET PT.

1K IN

2K OUT

1K IN

2K IN

TEMP RISE ↑

TEMP FALL ↓

2K IN

1K OUT

2K OUT

1K OUT

SET PT.

1K IN

2K OUT

1K IN

2K IN

TEMP RISE ↑

CONTINUOUS RUN

TEMP FALL ↓

2K IN

1K OUT

2K OUT

1K OUT

SET PT.

1K IN

2K OUT

1K IN

2K IN

TEMP RISE ↑

* USED WITHOUT REMOTE BOX OR CAB CONTROL BOX

** USED WITH CAB CONTROL BOX

*** USED WITH REMOTE BOX

THERMO KING CORPORATION

INDIANAPOLIS, INDIANA, USA

REF: 1 PH 3098743

3 PH 3098744

DRAWING NUMBER

3098738

DIAGRAM SCHEMATIC

MD KD RD TD S0

W/CYCLE SENTRY

1PH AND 3PH

SHEET 1 OF 2

DATE

1/23/98

CHECKED

4/3/98

APPROVED

4/2/98

THIS PRINT IS VALID FOR 12 MONTHS FROM DATE OF PRINTING

NOTE: DWG 9119C24 MUST BE CHANGED IF THIS DWG IS CHANGED.

