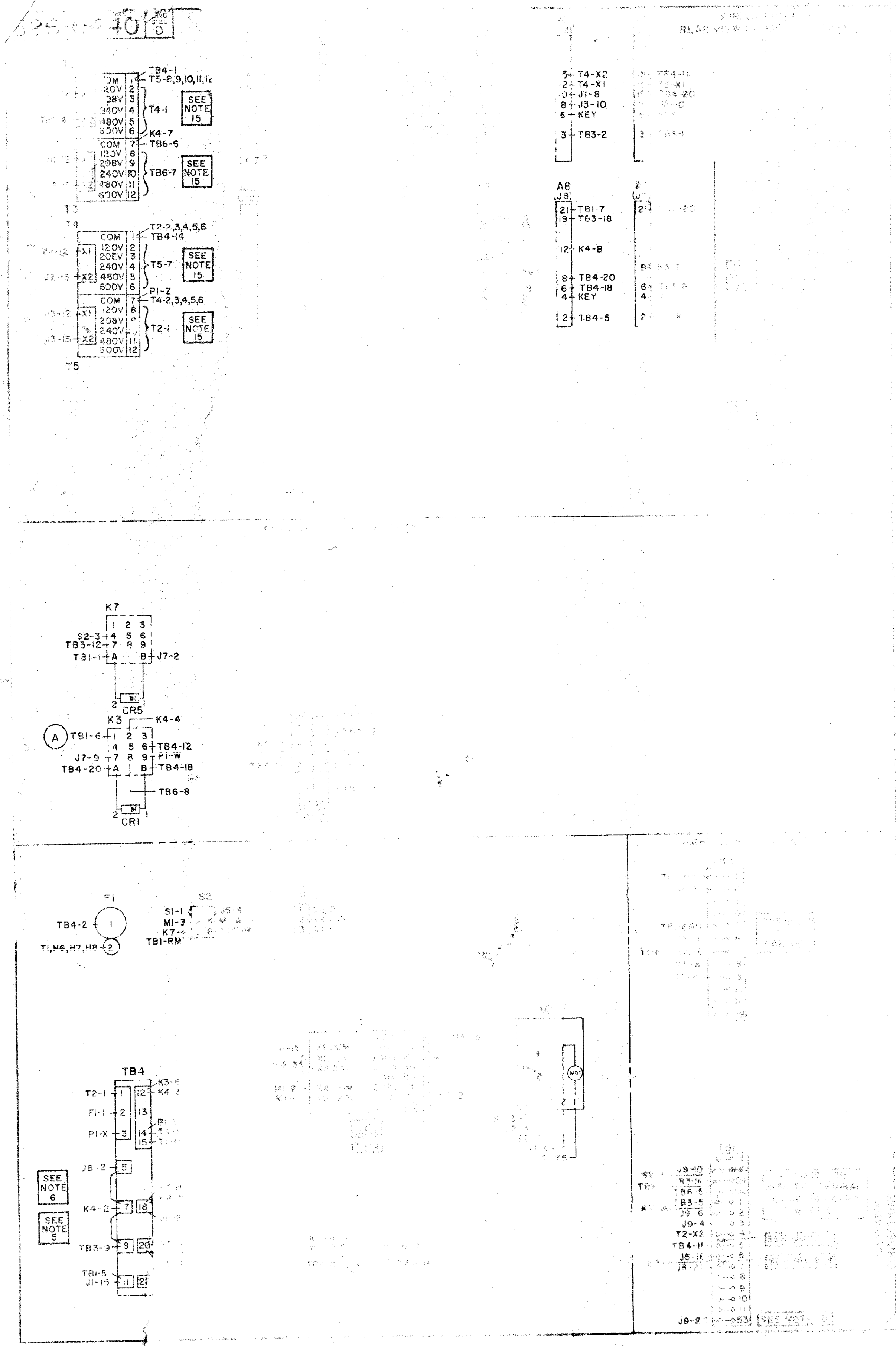
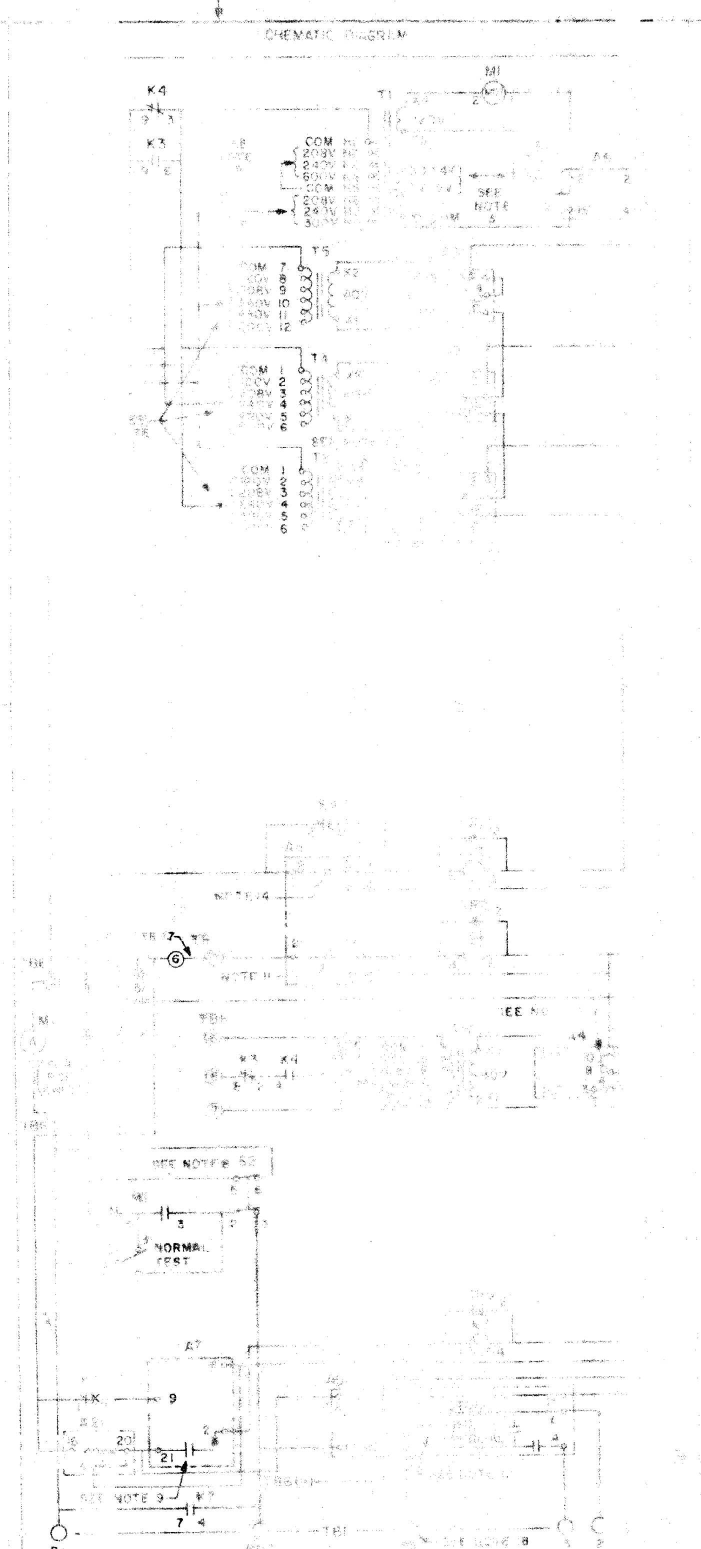
626-0440 DWG SIZE D





TEST OR EXERCISE (S2 SHOWN IN WITHOUT LOAD POSITION)
WITH LOAD - PLANT STARTS AND TAKES OVER LOAD. PLANT RUNS FOR DURATION OF TEST OR EXERCISE PERIOD PLUS ANY TIME DELAYS
WITHOUT LOAD - PLANT STARTS AND RUNS FOR DURATION OF TEST OR EXERCISE PERIOD

THIS CONTACT SYMBOLIZES A SOLID STATE SWITCH WHICH CLOSES AFTER A ... SEC DELAY AND OPENS AFTER ... MIN DELAY

THIS CONTACT SYMBOLIZES A SOLID STATE SWITCH WHICH CLOSES AFTER A ... (SEC TO 15 SEC) DELAY ON LOAD ...

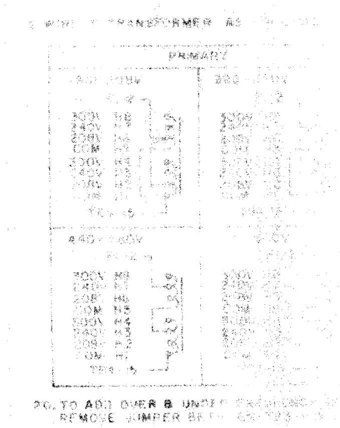
2 TO 3 WIRE CONVERTER (AT E ONLY)
THE SELECTOR ... THREE POSITIONS ... STOP ... PLANT, PREVENTS ... POSITION ...
NORMAL ... PLANT TO ... A LINE FAILURE ...
HAND ... PREVENTS AUTOMATIC ... & STOP ... POSITION

THIS ... SYMBOLIZES A SOLID ... AFTER A ... RETRANSFER

TO ADD PARALLELING SWITCH ... CIRCUIT, REMOVE JUMPER ...

... SIGNAL ON ... SIGNAL S3 IN REMOTE ...

... TRANSFORMER AS ...



20. TO ADD OVER & UNDER ... REMOVE JUMPER BET...

AT D & AT E)
AT C)

NOTES
1. ALL COMPONENTS SHOWN IN DE-ENERGIZED POSITION UNLESS OTHERWISE ...
2. 2 WIRE START ON AT C & AT D CONNECT ... & RUN & RHT
3 WIRE START ON AT E CONNECT TO ...
3. FOR 12V BATTERY CONNECT WIRE MARKED ... K3 ... BETWEEN ...
FOR 24V BATTERY CONNECT WIRE MARKED ... BETWEEN ...
4. TO ADD AREA PROTECTION EQUIPMENT OR REMOTE TEST TRANSFER SW...
REMOVE JUMPER BETWEEN TB1-4 & 5
5. TO ADD OVER-VOLTAGE SENSING,
REMOVE JUMPER BETWEEN TB4-7 & 9
6. TO ADD PUSH TO RETRANSFER
REMOVE JUMPER BETWEEN TB4-5 & 7
7. THIS CONTACT SYMBOLIZES A SOLID STATE SWITCH THAT CLOSES WHEN VOLTAGE IS NORMAL (A1,A2,A3,& A4)

PARTS LIST

REF DES	PART NO	REV	QTY	DESCRIPTION
A1,2,3	300-0792	C	3	UNDER VOLTAGE SENSOR (LINE)
A4	300-0760	C	1	UNDER VOLTAGE SENSOR (GEN)
A5	300-0047	B	1	MODULE-VOLTAGE ... (AT D & E)
	300-0848	B	1	MODULE-24V TO 12V CONVERTER(AT C)
A6	300-0793	C	1	BATTERY CHARGER 2 AMP,12V(AT D & E)
	300-0794	C	1	BATTERY CHARGER 2 AMP 24V(AT C)
A7	300-0921	C	1	TD START-STOP
				0.1 SEC TO 15 SEC DELAY ON START
				0.1MIN TO 10 MIN DELAY ON STOP
A8	300-1188	C	1	TD TRANSFER-RETRANSFER
				.1SEC TO 15SEC ON TRANSFER
				.5SEC TO 30MIN ON RETRANSFER
A9	300-0937	B	1	MODULE BLANK (SPARE) (AT C & D)
	300-0926	C	1	2 TO 3 WIRE CONVERTER (AT E)
A10	300-0937	C	1	MODULE BLANK (SPARE)
A11,12	300-0937	B	2	MODULE BLANK (SPARE)
A16	[illegible]	C	1	PANEL ASSY-SWINGING
A2	[illegible](REF)	B	1	CONTROL START STOP
F1	[illegible](REF)	P	1	FUSE-1 AMP
	[illegible](REF)	P	1	FUSE-HOLDER
K3	[illegible]	B	1	RELAY-INTERPOSING LINE (12V)
K4	[illegible]	B	1	RELAY-INTERPOSING GEN (12V)
K7	[illegible]	B	1	RELAY-START (12V)
M1	[illegible]-004	B	1	CLOCK-PLANT EXERCISER(120V 50Hz)
	[illegible]-002	B	1	CLOCK-PLANT EXERCISER (120V 60Hz)
P1	[illegible](REF)	A	1	PLUG-LINE DISCONNECT
R1	[illegible](REF)	A	1	RESISTOR-5 OHM (2.5 OHM TAP 75W)
S1	308-0321(REF)	P	1	SWITCH-TEST TRANSFER
S2	308-0322(REF)	P	1	SWITCH-SELECTOR
T1	315-0379(REF)	B	1	TRANSFORMER BATTERY CHARGER
T2-5	315-0374(REF)	C	2	TRANSFORMER ASSY-STEPDOWN
TB1	332-1499	A	1	MARKER STRIP
TB6	332-1469	A	1	MARKER STRIP
	338-1139(REF)	D	1	HARNESS-MAIN (3 SHEETS)
	332-2114	-	9	PLUG-KEYING
	301-3593	B	1	COVER-BACK
	301-4727	A	2	BRACKET & FASTENER

30849
2891
33740

ACCESSORY GROUP 12
BATTERY CHARGER MODULE
UNDER VOLTAGE SENSORS(LINE)
UNDER VOLTAGE SENSOR(GEN)
2 TO 3 WIRE CONVERTER(AT E ONLY)
NORMAL-TEST SWITCH
WITH LOAD-WITHOUT LOAD SW
EXERCISER CLOCK
TD START-STOP
TD TRANSFER-RETRANSFER

ER	LET	REVISION	DRAWN	CKD	DATE
2004	B	WAS ...	JM	CIP	2-20-80
2004	K	REMOVED ...	JM	CIP	2-20-80
2004	J	WAS ...		CIP	2-20-80
	H	ADDED ...		CIP	6-6-79
	G	ADDED IN ... VOLTAGES			2-20-79
	F	301-4727 ... WAS			3-8-78
	E	REM K5 ...			3-8-78
	D	ADDED ...			2-24-78
	C	REMOVED ...			2-24-78
	B	(REF) WAS ...			2-24-78
	A	K3-1 WAS ...			2-24-78

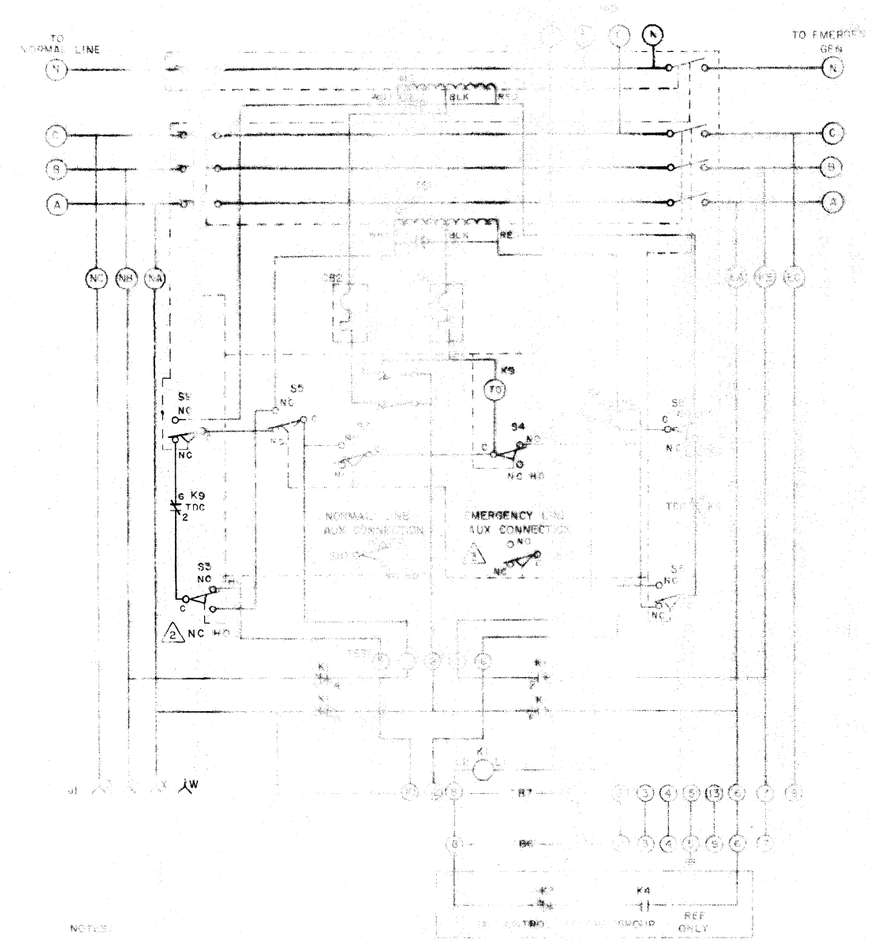
AT C OT C
AT D OT D } SPEC C
AT E OT E
208,220,240,440,480,600V, 3PH., 4W., 50/60Hz

Onan
DIVISION OF ONAN CORPORATION
Minneapolis, Minnesota
DATE 12-28-77 C.I.P.
CONTROL ACCESS PANEL (WIRING DIAGRAM)
626-0440 DWG SIZE D

1609

626-0460 DWG SIZE D

SCHEMATIC DIAGRAM



NOTES:

1. TRANSFER SWITCH SHOWN ... LINE POSITION
   ... LINEAR ACTUATOR FOR 3 POLE SWITCH
   ... LINEAR ACTUATOR FOR NEUTRAL POLE
   K9 ... (2.6)(1.5) TIME ... INSTANTANEOUSLY ON PICKUP
2. ... DESIGNATES NORMALLY OPEN FIELD WIRED
   ... DESIGNATES NORMALLY CLOSED FIELD WIRED
3. S10 & ... INSTALL RATING ... 480VAC 1.5 HP PILOT DUTY ...

LINE VOLTAGE	100A		200A		400A		600A		800A	
208 220 ...		-03		-05		-07		-9		-11
440-480 ...		-04		-06		-08		-12		-14

REF DES	PART NO	REV	QTY	PART DESCRIPTION
J1	323-0900	A	REF	RECEPTACLE ... SOCKET
K1	307-1671	P	1	RELAY ... WIRING (208/240V)
	307-1672	P	1	RELAY ... WIRING (440/480V)
TS1	306-1929	D	1	TRANSFER SWITCH (-01)
	306-1932	D	1	TRANSFER SWITCH (-02)
	306-1937	D	1	TRANSFER SWITCH (-03)
	306-1940	D	1	TRANSFER SWITCH (-04)
	306-1581	D	1	TRANSFER SWITCH (-05)
	306-1584	D	1	TRANSFER SWITCH (-06)
	306-1589	D	1	TRANSFER SWITCH (-07)
	306-1592	D	1	TRANSFER SWITCH (-08)
	306-1597	D	1	TRANSFER SWITCH (-09)
	306-1600	D	1	TRANSFER SWITCH (-10)
	306-1604	D	1	TRANSFER SWITCH (-11)
	306-1608	D	1	TRANSFER SWITCH (-2)
	[illegible]	D	1	TRANSFER SWITCH (-3)
	[illegible]	D	1	TRANSFER SWITCH (-4)
	[illegible]	D	1	TRANSFER SWITCH (-5)
	[illegible]	D	1	TRANSFER SWITCH (-6)
	306-275	D	1	WIRING HARNESS (-01 THRU-04)
	306-260	D	1	WIRING HARNESS (-05 THRU-16)
	301-5134	D	1	CABINET ASSY (-05 THRU-16)
	301-4929	D	1	CAB ... ASSY (-01 THRU-04)
	306-1380	A	2	SPACER MTG (-07 THRU-16)
	332-355	P	2	CLAMP LOOP
	332-414	-	6	CLAMP ...
	332-0050	-	6	CLIP WIRE 1 MAN
	301-3524	B	1	PLATE STRIKER
	406-0370	A	1	PIN ...
	508-0177	P	2	WASHER NYLON
	406-0363	A	2	PIN RINGS
	99-1269	A	1	NAMEPLATE LOAD XFER
	98-2799	A	1	LABEL TERMINAL BLOCK
	98-3764	C	1	SILKSCREEN CONN DIAG

TRANSFER SWITCH CABINET ASSY K
4 POLE WITH MANUAL OPERATORS
PROGRAMED NEUTRAL

2328	A	WAS ... TO 4 POLE		C/P 3-26-80
	H	ADDED ...		C/P 4-26-79
	G	WAS ...		C/P 3-6-79
	F	ADD ...		C/P 3-6-79
	E	ADDED ...		C/P 3-6-79
	D	WAS ...		C/P 3-2-79
	C	WAS ...		C/P 3-2-79
	B	MOVED ...		C/P 11-10-78
	A	REMOVED ... FROM K		C/P 11-10-78
ER	SUPSD DWG ...			5-78 W/CHNG

Onan DIVISION OF ONAN CORPORATION Minneapolis, Minnesota

SPECD ... SPEC A

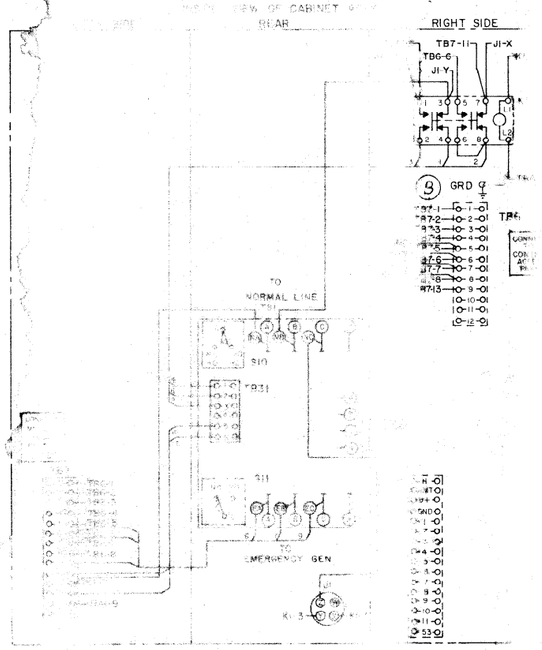
... 220V, 440-480V, 4W
100-1000 A, 3 PH, 60 Hz

TRANSFER SW-CAB ASSY (WIRING DIAGRAM)

626-0460 D

1609

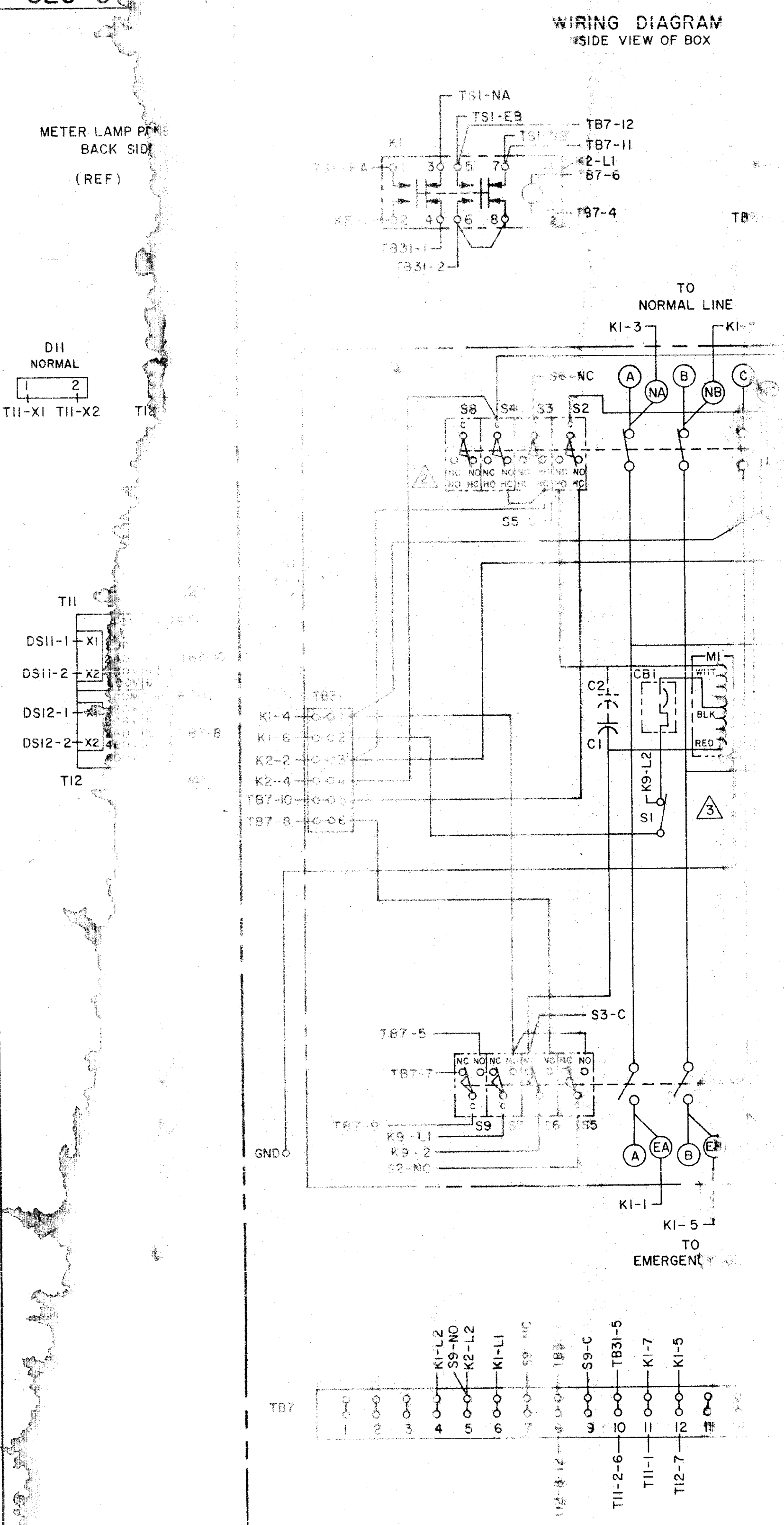
WIRING DIAGRAM



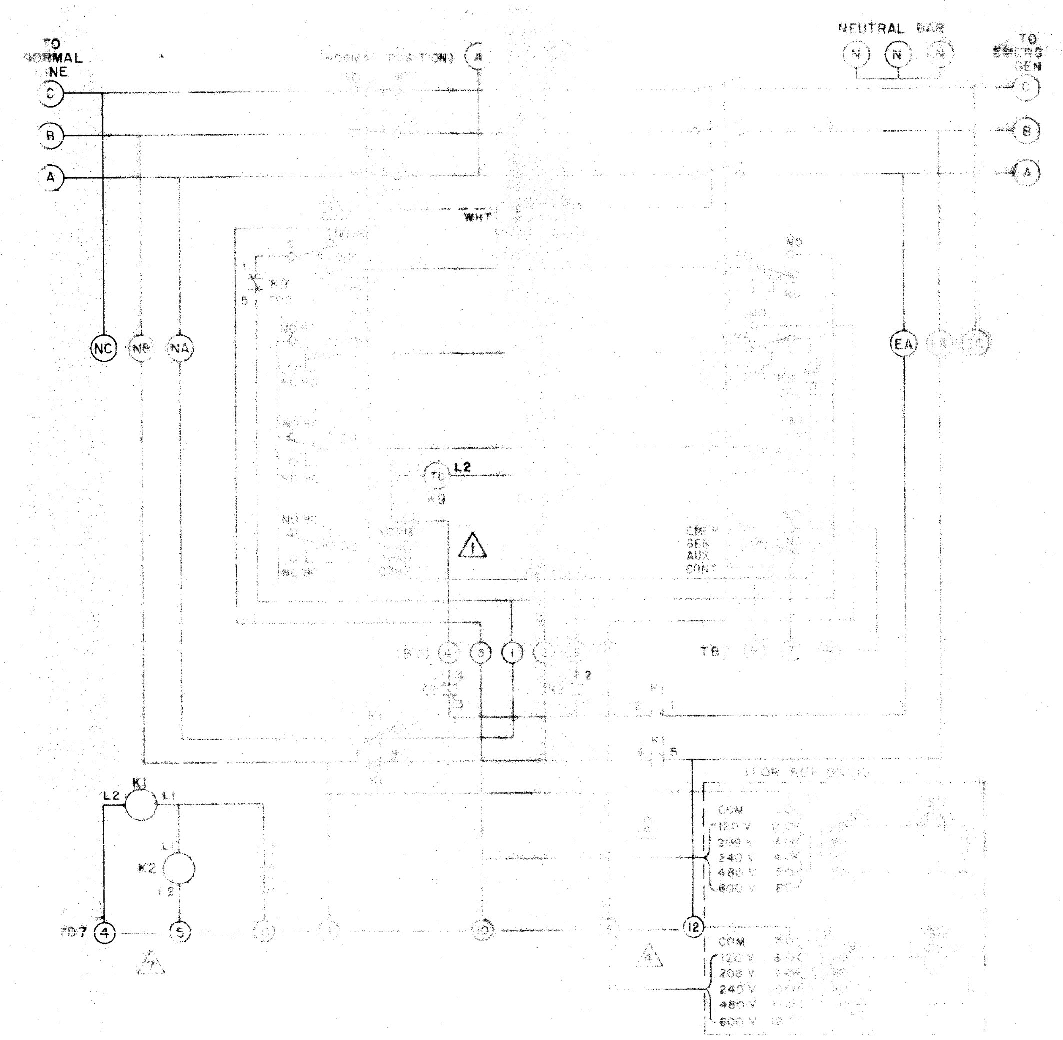
626-0460

626-0427

WIRING DIAGRAM
INSIDE VIEW OF BOX



SCHEMATIC DIAGRAM



NOTES:

1. ADD LEAD FROM S4 [illegible] TO TB3[illegible]
2. NO-HC DESIGNATES NORMALLY OPEN, HELD CLOSED
   NC-HO DESIGNATES NORMALLY CLOSED, HELD OPEN
3. DISCONNECT SWITCH FOR MANUAL OPERATION OF TRANSFER SWITCH THROW SWITCH TO "OFF"
   CAUTION
   RETURN TRANSFER SWITCH TO ORIGINAL POSITIONS BEFORE SWITCHING TO "ON"
   SWITCH MUST BE LEFT IN "ON" POSITION EXCEPT FOR MANUAL SWITCHING
4. WIRE TRANSFORMERS [illegible]
   FOR 208 V, CONNECT TB7-[illegible]
   FOR 240 V, CONNECT TB7-[illegible]
   FOR 480 V, CONNECT TB7-10 [illegible]
5. USE WIRE 334-1842, 16 GA [illegible] TO WIRE RELAY COILS AND CONTACTS
   USE WIRE 334-1841, 20 GA [illegible] TO WIRE LAMPS
6. MOUNT K2 RELAY NEXT TO [illegible] RELAY
7. K1 & K2 ARE TO BE USED WITH [illegible]

PARTS LIST

REF DES	PART NO	DWG SIZE	QTY	DESCRIPTION
K1 & 2	307-1670	P	2	RELAY [illegible] (120 V)
TB7	332-1697	A	1	TERMINAL BLOCK
	332-1698	A	1	MARKER STRIP
TS1	306-1748	D	1	TRANSFER SWITCH (-01)
	306-1751	D	1	TRANSFER SWITCH (-02)
	306-1768	D	1	TRANSFER SWITCH (-03)
	306-1771	D	1	TRANSFER SWITCH (-04)
	306-1301	D	1	TRANSFER SWITCH (-05)
	306-1304	D	1	TRANSFER SWITCH (-06)
	306-1321	D	1	TRANSFER SWITCH (-07)
	306-1324	D	1	TRANSFER SWITCH (-08)
	306-1179	D	1	TRANSFER SWITCH (-09)
	306-1182	D	1	TRANSFER SWITCH (-10)
	306-1199	D	1	TRANSFER SWITCH (-11)
	306-1202	D	1	TRANSFER SWITCH (-12)
	306-1219	D	1	TRANSFER SWITCH (-13)
	306-1222	D	1	TRANSFER SWITCH (-14)
	306-1239	D	1	TRANSFER SWITCH (-15)
	306-1242	D	1	TRANSFER SWITCH (-16)
	301-5289	D	1	CABINET ASSY (-01 THRU -04)
	301-5423	D	1	CABINET ASSY (-05 THRU -08)
	[illegible]	D	1	CABINET ASSY (-09 THRU -12)
	301-4822	D	1	CABINET ASSY (-13 THRU -16)
	301-4323	C	1	DOOR ASSY (-01 THRU -04)
(REF)	626-1034	C		METER LAMP PANEL (-01 THRU -04)
(REF)	438-0176	C		METER LAMP PANEL (-05 THRU -16)
	301-3624	B	1	PLATE [illegible] (-01 THRU -04)
	99-1269	A	1	NAMEPLATE, CONTROL
	98-3102	D	1	SILKSCREEN [illegible] PANEL (-01 thru -04)
	98-2445	A	1	[illegible] SENTRY

TRANSFER SWITCH CABINET ASSY
REMOTE OPERATED
TRANSFER SW MECHANICALLY HELD [illegible]
SIDES WITH MANUAL OPERATING
AUXILIARY CONTACTS, NORMAL [illegible]
EMERGENCY GEN SIDE [illegible]
PROGRAMED TRANSITION
LOAD SHED
NEMA 1 ENCLOSURE

THIS INFORMATION IS FOR MANUFACTURES USE ONLY

DASH NUMBERS PER AMP SIZE							
100 A	150 A	225 A	260 A	400 A	600 A	800 A	1000 A
-01 *	-03	-05	-07	-09	-11	-13	-15
-02	-04	-06	-08	-10	-12	-14	-16

FUGK /9919

2309 ER PROD RELEASE

ONAN CORPORATION
Minneapolis, Minnesota

DATE 9-[illegible]-79

TRANSFER SW & CAB ASSY (WIRING DIAGRAM)

626-0427 D

1604

-0169
32.00
(816.
.44 DIA MTG HOLE
(11)
NORMAL
A
B
C
N
EMERGENCY
A
B
C
4
8
7
6
2
1
42.25
(1073
FRONT VIEW
DOORS
20.88
(530.
DIMENSIONS IN ( ) ARE IN MILLIMETERS.
B
A
6
5
4
3
2
1
4 HANDLES
2 ROD-ACTUATOR
2 ACTUATOR-LINEAR
4 LUG-SOLDERLESS
4 LUG-SOLDERLESS
2 SWITCH-AUX
4 LUG-SOLDERLESS
301-4929 REF 1 CONTROL BOX
PART NO QTY DESCRIPTION OR MATERIAL
OUTLINE-CONTROL BOX
OT-100 & 150 AMP
4 POLE
1609