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LEGEND
 AMPT = AMPTECTOR, SOL-STATE CON
 ACTR = ACTUATOR, SOL-STATE BKR TR
 HLS = HIGH LOAD SW
 LCS = LATCH CHECK SW
 LO = LOCK OUT
 LS = LIMIT SW FOR CLOSING SPR
 MOT = MOTOR FOR SPG CHARGING
 OTS = OVERCURRENT TRIP SW
 PB = PUSHBUTTON
 SEN = SENSOR
 SH TR = SHUNT TRIP
 SR = SPRING RELEASE
 UV = UNDERVOLTAGE
 Y = ANTI-PUMP RELAY

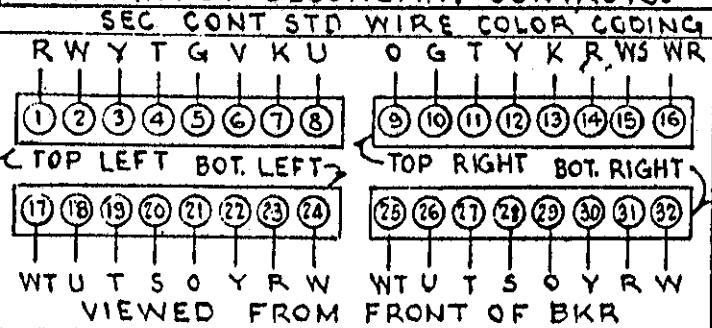
OPERATION OF PWR OPR MECH STD. (REFER TO FIG. 6A)

- 1- WHEN BKR OPENS MOT IS ENERGIZED THRU LS & "b" CONT.
 - 2- MOT RUNS & CHARGES CL SPG
 - 3- WHEN CL SPG ARE FULLY CHARGED LS CONTACTS REVERSE.
 - 4- CLOSING CS-C CONT ENERGIZES SR COIL THRU Y, LS & "b" CONT.
 - 5- WHEN BKR CLOSES "b" OPENS & Y COIL IS ENERG IN SER WITH SR COIL.
 - 6- Y CONT OPENS TO OPEN SR COIL CKT & PREVENT PUMPING SHOULD BKR OPEN WHILE CS-C IS HELD CLOSED. Y COIL HAS VERY LOW DROP OUT VOLTAGE.
- SPECIAL (FIG. 7A)**

SAME AS FOR STD ABOVE EXCEPT MOTOR RUNNING DEPENDS ONLY ON LS CONTACT

EQUIPMENT SHOWN OUTSIDE OF BKR BROKEN-LINE OUTLINE IS NOT SUPPLIED WITH BKRS.

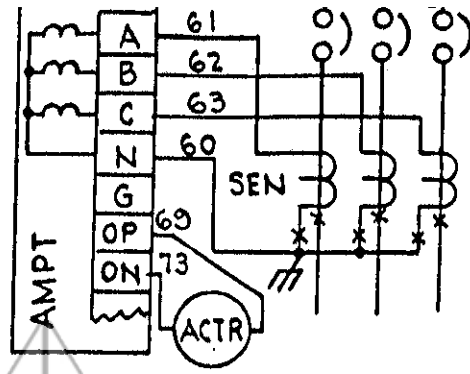
DIAGRAM DETAILS ARE SHOWN F.V. FOR DRAWOUT BKRS. FOR FIXED BKRS USE CORRESPONDING T. BLK POINTS INSTEAD OF DRAWOUT SECONDARY CONTACTS.



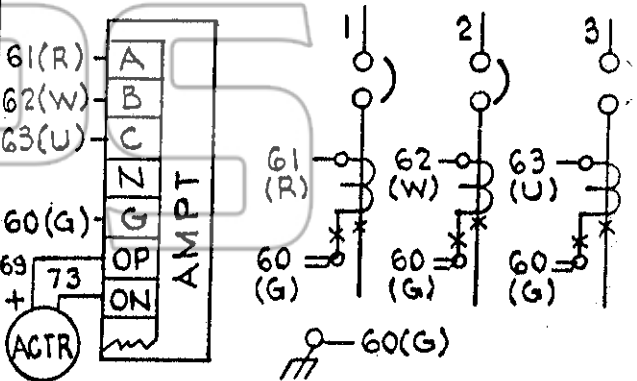
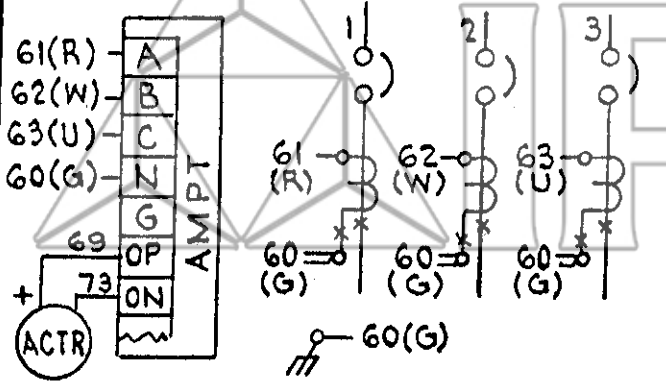
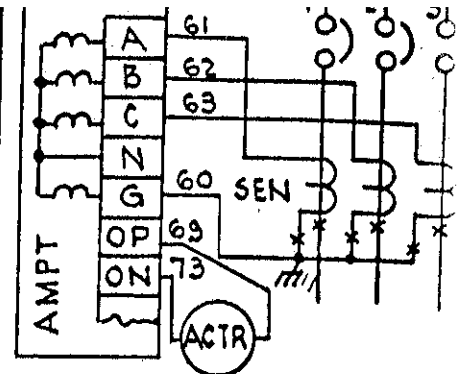
NOTES: (1) TABULATION ON LH SIDE OF EACH FIG. IS LOCATION CODE FOR WIRING HARNESS. (2) A NUMERAL IS ADDED TO CERTAIN FIG. NO. ON THE BKR NP TO INDICATE COIL VOLTAGE AS FOLLOWS: 1, 2, 3 & 4 = 24, 48, 125 & 250 V DC, RESP.; 5, 6, 7 & 8 = 115, 208/230, 460 & 208V ONLY, AC, RESP.; 9 = ANY OTHER VOLT. (32V DC, ETC.) MAN. OPR BKR WITH SHUNT TRIP & CAP DEY WILL HAVE DIAG CODE 3BC

WESTINGHOUSE ELECTRIC CORPORATION		800A600
TITLE TYPE DS ACB; INTERNAL "Y" RELAY, STD DIAGRAM		
DIVISION SWGR	PLANT LOCATION E. PGH. PA SH 1	

(R) 5.1-3.2
 (W) 5.2-3.3
 (U) 5.3-3.4
 (G) 5.4-3.4-
 3.3-3.2-
 3.1



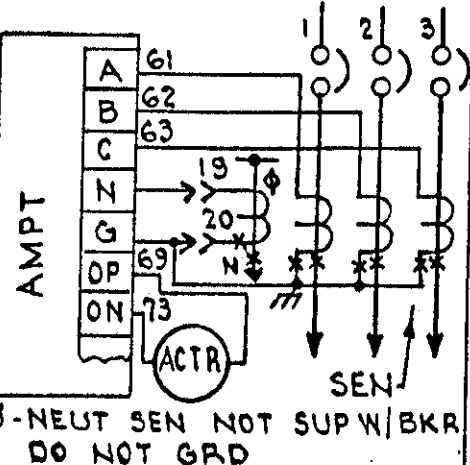
(R) 5.1-3.2
 (W) 5.2-3.3
 (U) 5.3-3.4
 (G) 5.4-3.4-
 3.3-3.2-
 3.1



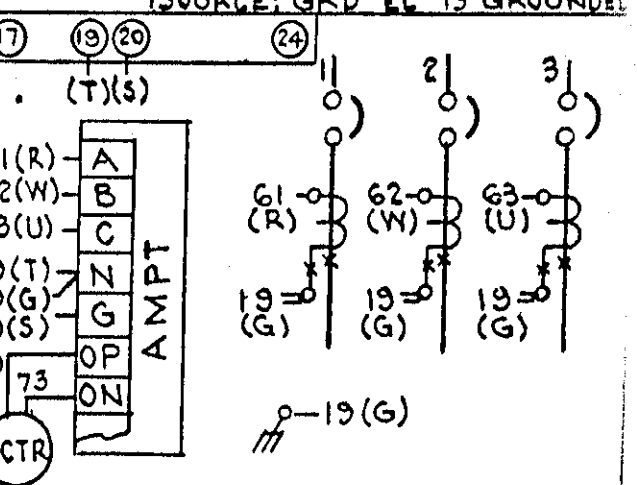
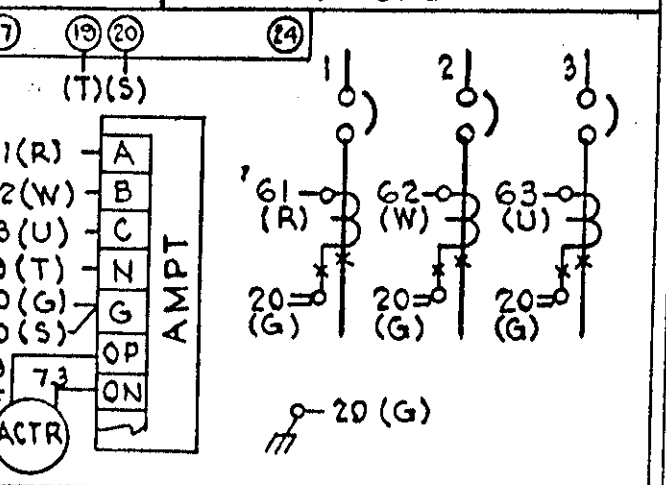
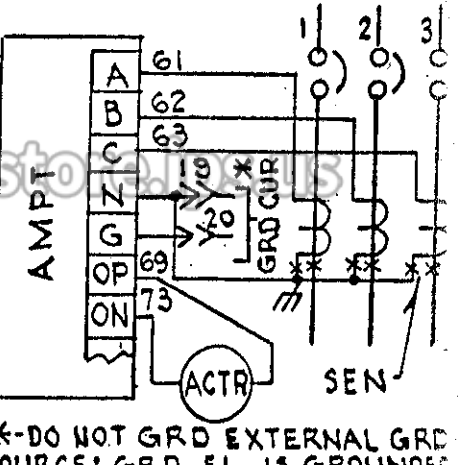
STD SERIES TRIP (NO GRD) 2A

SER TRIP W/GRD, NO NEUT CONN 2E

(R) 5.1-3.2
 (W) 5.2-3.3
 (U) 5.3-3.4
 (T) 5.4-2.3
 (S) 5.4-2.4
 (G) 5.4-3.4-
 3.3-3.2-
 3.1



(R) 5.1-3.2
 (W) 5.2-3.3
 (U) 5.3-3.4
 (T) 5.4-2.3
 (S) 5.4-2.4
 (G) 5.4-3.4-
 3.3-3.2-
 3.1



SER TRIP W/GRD, W/NEUT CONN 2C

SER TRIP W/GRD, EXT GRD CUR 2D

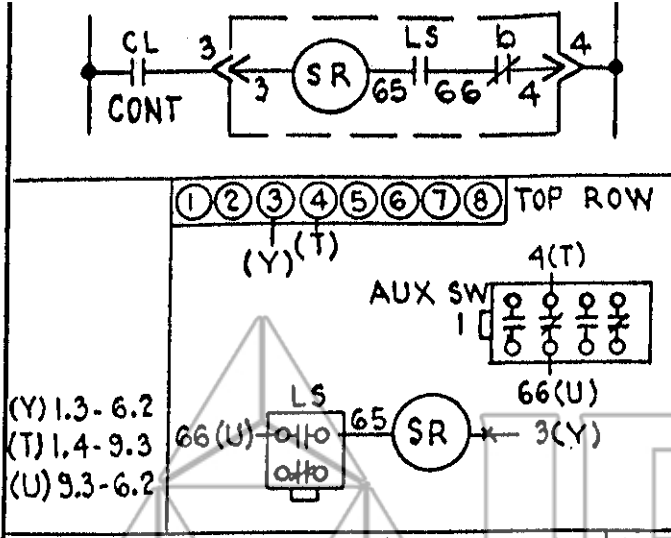
WESTINGHOUSE ELECTRIC CORPORATION

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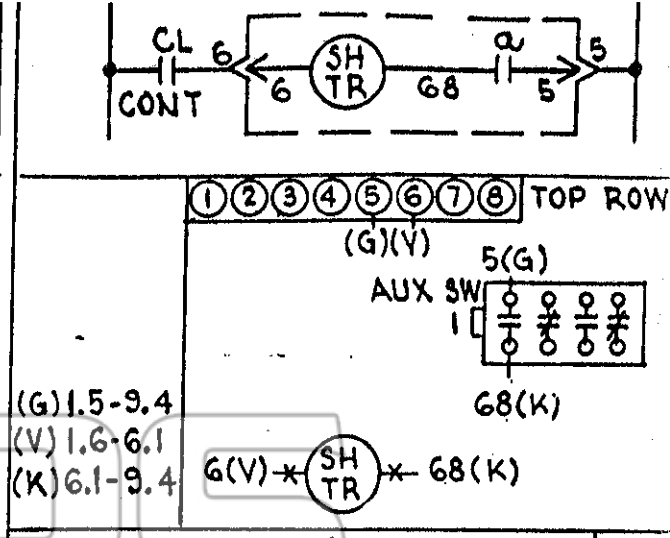
TITLE SERIES TRIP, 3P AMPTECTOR

DIVISION SWGR

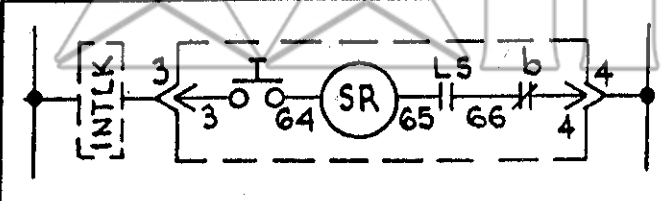
PLANT LOCATION E-PGH PA SH 2



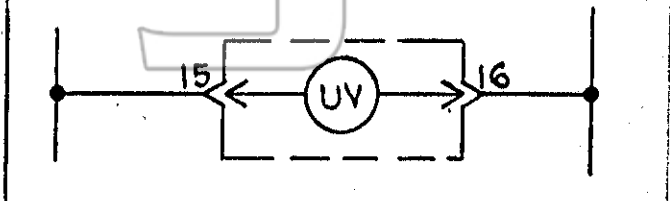
ELEC SPRING REL (MAN. BKR) 3A



SHUNT TRIP (MAN. BKR) 3B

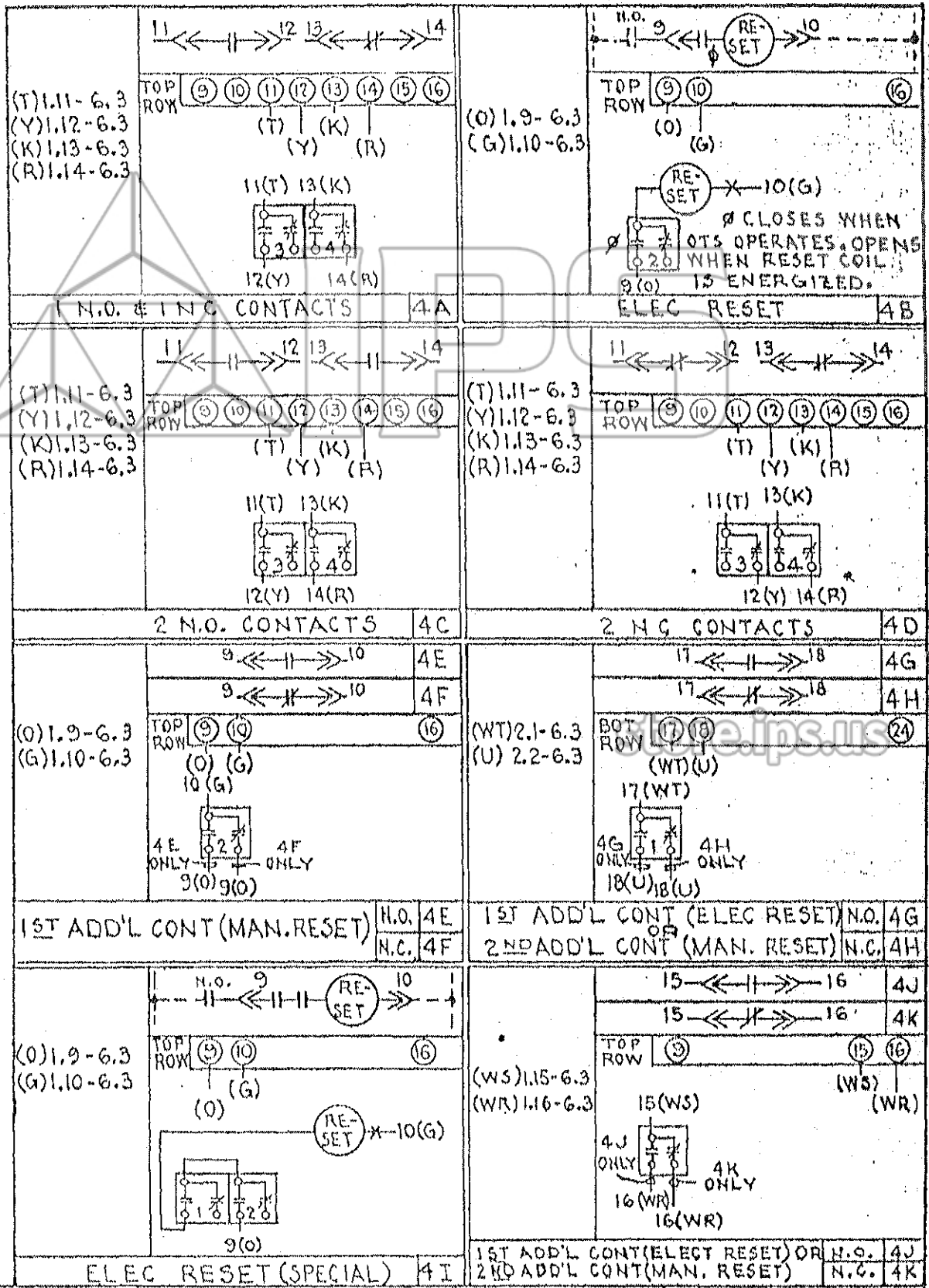


ELEC LOCKOUT (MAN. BKR) 3C



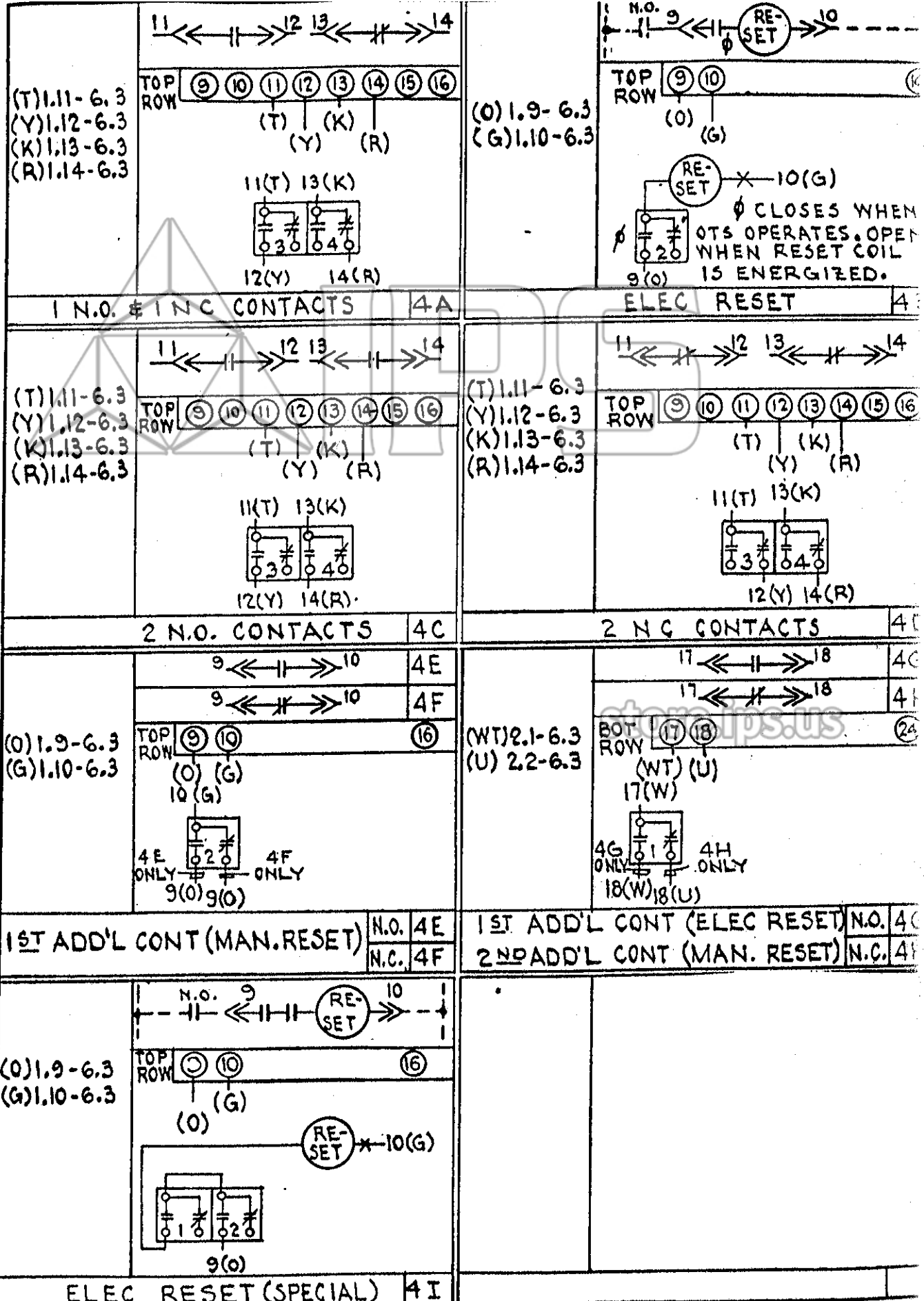
UNDERVOLTAGE 3D

WESTINGHOUSE ELECTRIC CORPORATION	800A600
BASIC ACCESSORIES	
TITLE _____	PLANT LOCATION E. PGH PA SH 3
DIVISION _____	



11

<p>WESTINGHOUSE ELECTRIC CORPORATION OVERCURRENT TRIP SWITCH (OTS)</p>		800A 600A
<p>TITLE CONTACTS CHG STATE & LATCH ONLY WHEN AMPT TRIPS BKR</p>		
<p>DIVISION SWGR</p>		<p>PLANT LOCATION E. PGH., PA SH 4-</p>



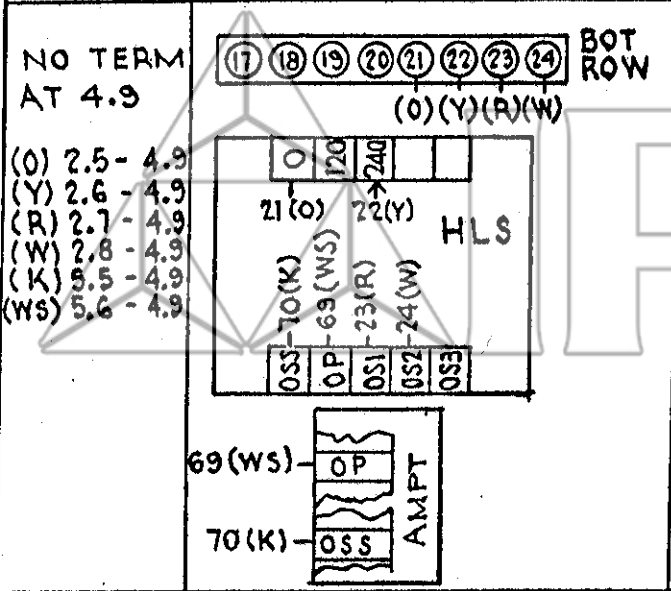
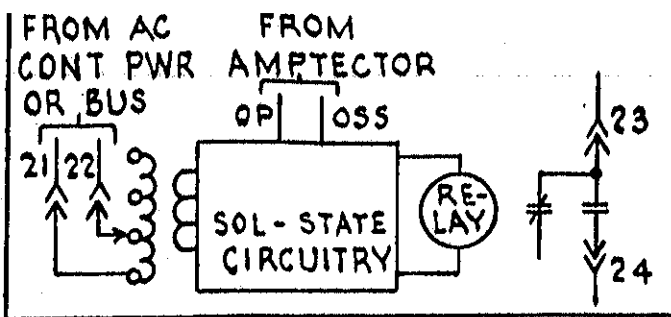
WESTINGHOUSE ELECTRIC CORPORATION

800A600

TITLE OVERCURRENT TRIP SWITCH (OTS)

DIVISION SWGR

PLANT LOCATION E. PGH., PA SH 4



HIGH LOAD SWITCH (HLS) 5A

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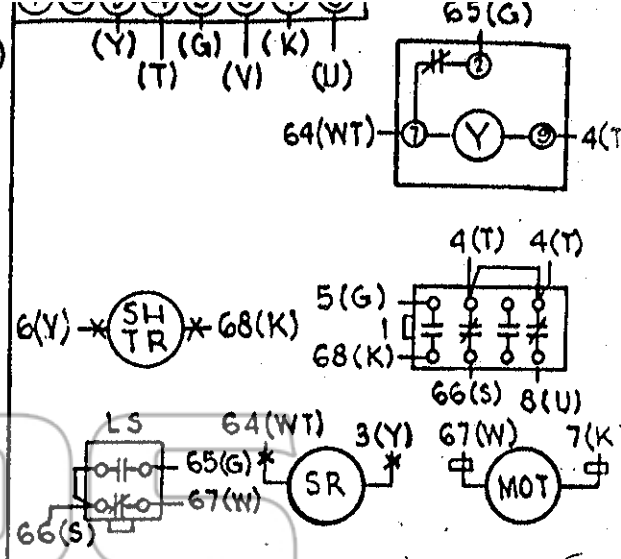
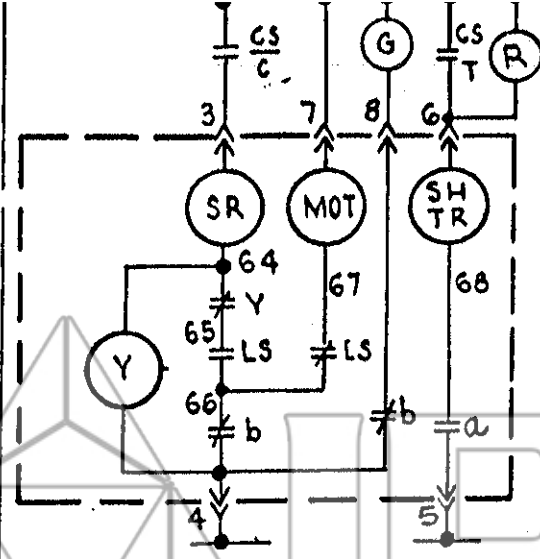
WESTINGHOUSE ELECTRIC CORPORATION
HIGH LOAD SWITCH

800A600

TITLE
DIVISION SWGR

PLANT LOCATION E. PGH PA SH B

(Y) 1.3-6.2
 (T) 1.4-9.1
 (G) 1.5-9.4
 (G) 6.2-10.3
 (V) 1.6-6.1
 (K) 6.1-9.4
 (K) 1.7-10.1
 (U) 1.8-9.1
 (S) 9.3-6.2
 (W) 6.2-10.1
 (WT) 6.2-10.3
 (T) 9.3-10.3

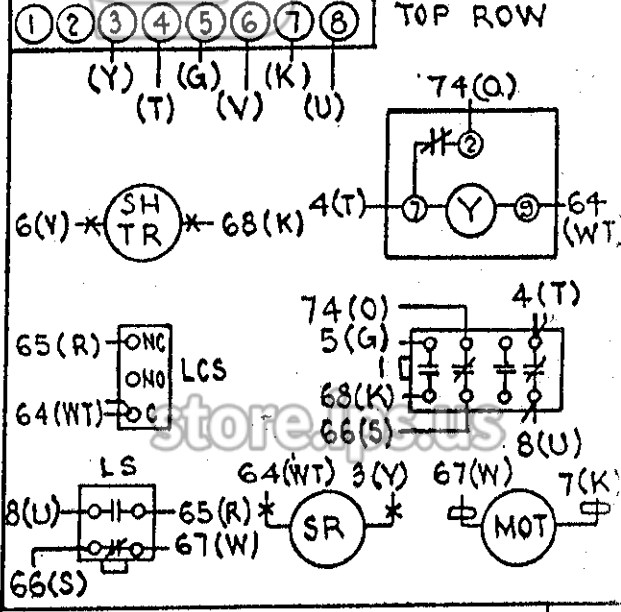
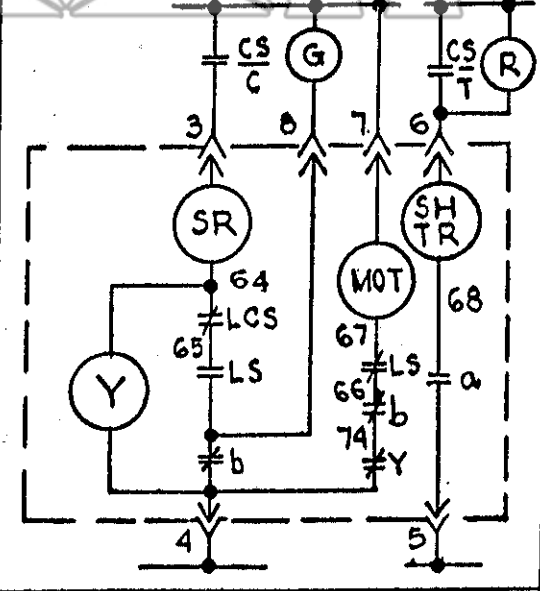


4+7
 3+4
 5+6

PWR. OPR MECH, STD

6A

(Y) 1.3-6.2
 (T) 1.4-9.1-10.3
 (G) 1.5-9.4
 (O) 9.3-10.3
 (V) 1.6-6.1
 (K) 6.1-9.4
 (K) 1.7-10.1
 (U) 1.8-9.1-6.2
 (W) 10.1-6.2
 (WT) 6.2-6.4-10.3
 (R) 6.2-6.4
 (S) 6.2-9.3



PWR. OPR MECH STD W/LCS

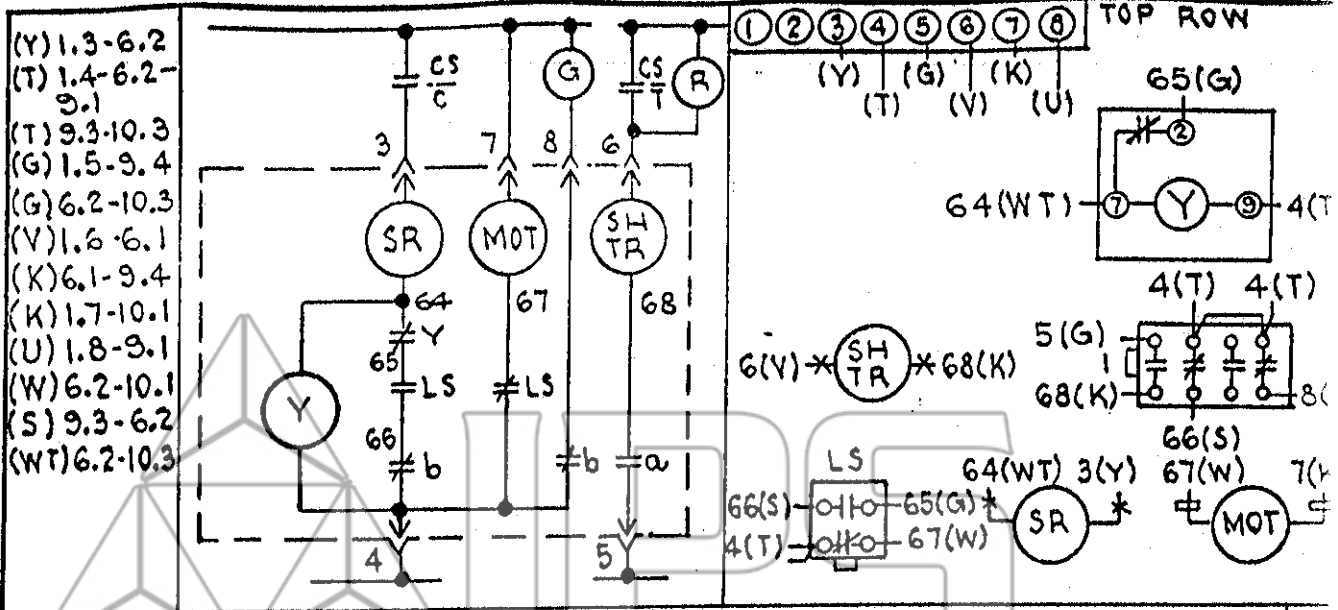
6B

WESTINGHOUSE ELECTRIC CORPORATION
 POWER OPERATED MECH. STD
 (CL) SPRINGS CHARGED AFTER BKRO OPENS

800A600

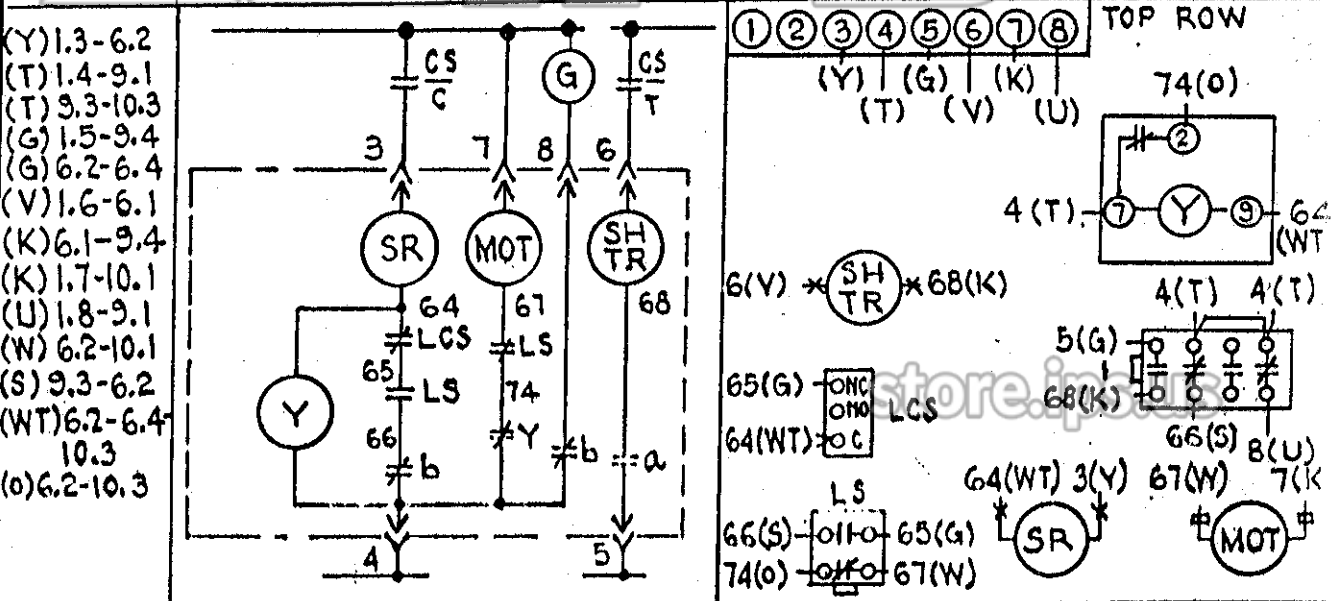
TITLE _____
 DIVISION SWGR

PLANT LOCATION E. PGH PA SH 6



PWR OPR MECH, SPECIAL

7A



PWR OPR MECH W/LCS, SPECIAL

7E

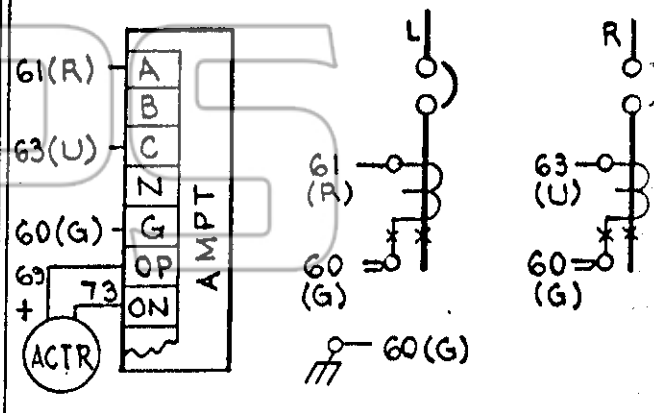
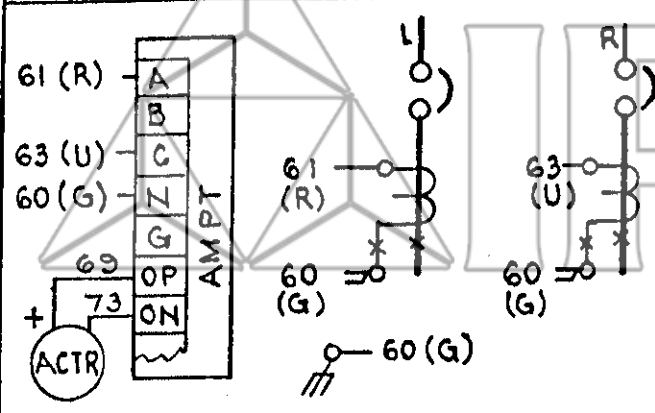
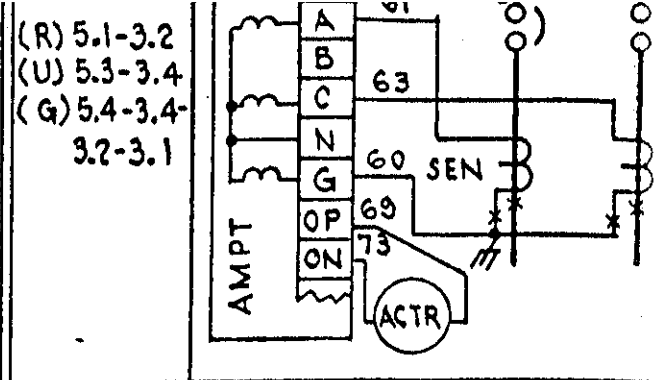
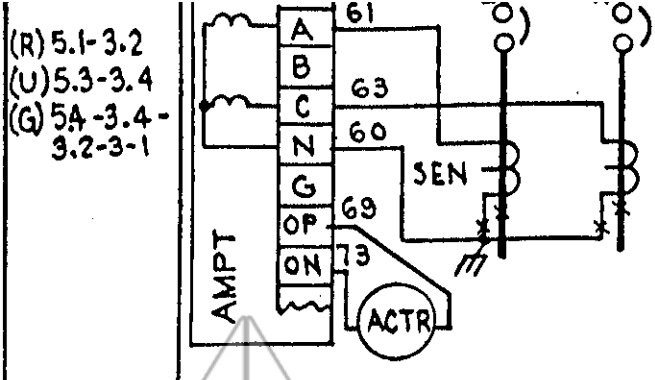
WESTINGHOUSE ELECTRIC CORPORATION

PWR OPERATED MECH SPECIAL
(CL SPRINGS CHARGED AFTER BKR CLOSES)

800A600

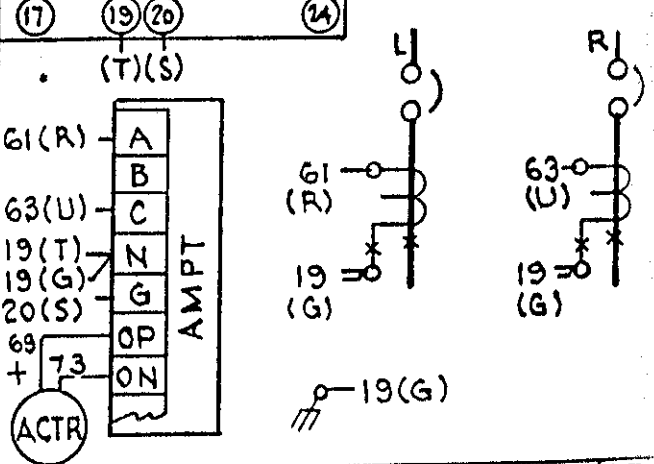
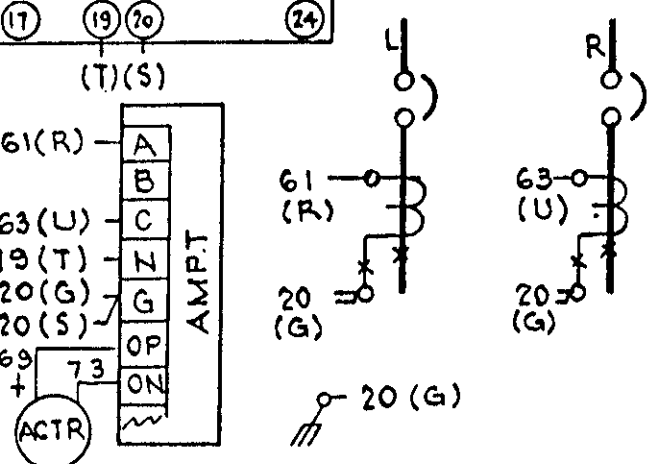
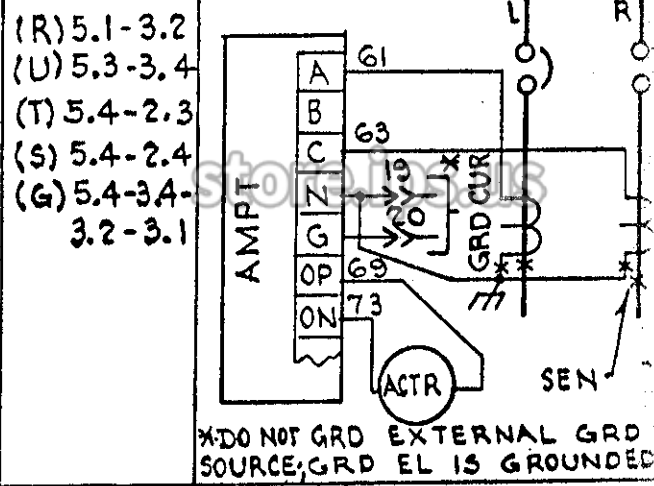
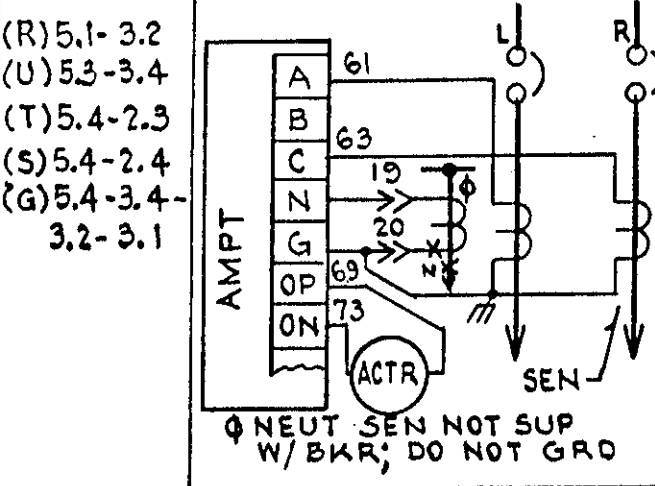
TITLE
SWGR

PLANT LOCATION **E. PGH PA. SH 7**



STD SERIES TRIP 8A

SER TRIP W/GRD NO NEUT CONN 8E



SER TRIP W/GRD, W/NEUT CONN 8C

SER TRIP W/GRD, EXT GRD CUR 8D

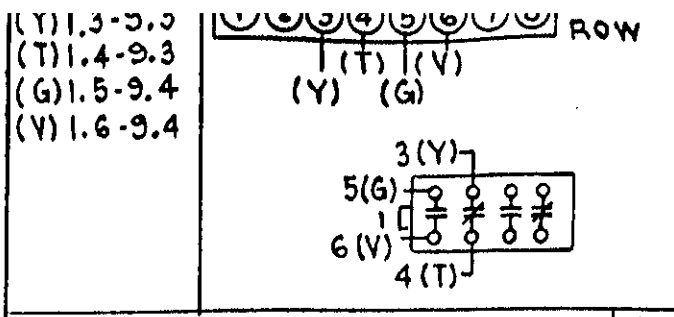
WESTINGHOUSE ELECTRIC CORPORATION

800 A 600

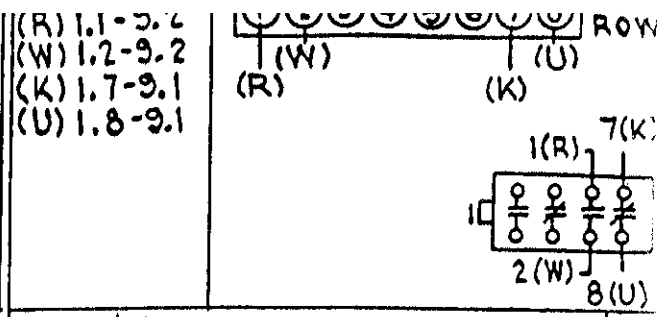
TITLE SERIES TRIP, 2P, AMPTECTOR

DIVISION SWGR

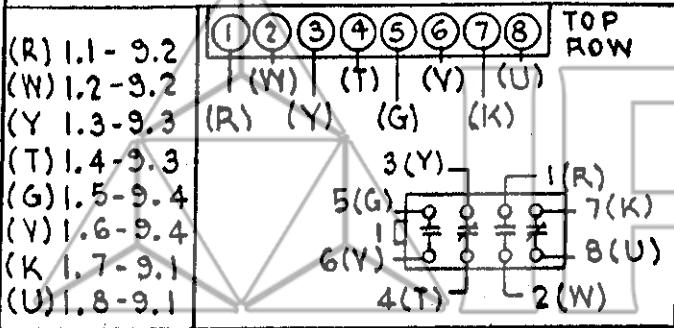
PLANT LOCATION E.PGH PA SH 8



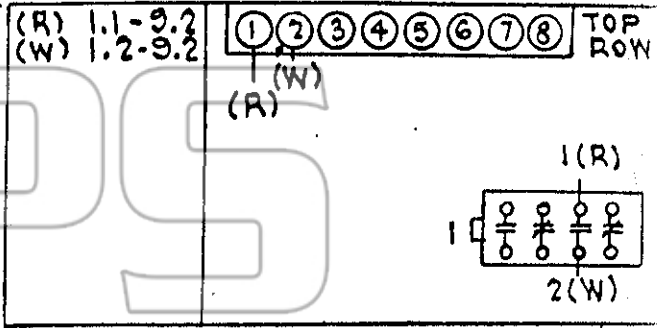
a1 & b1 9A



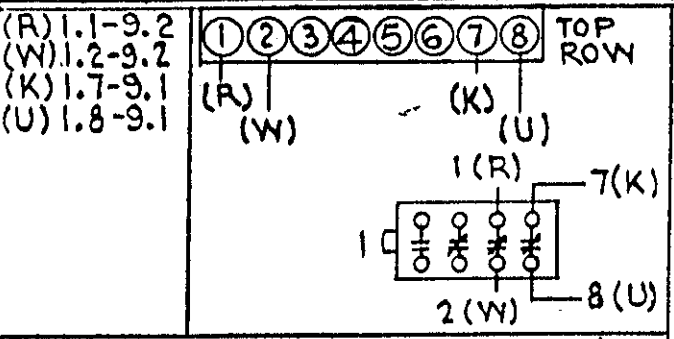
a2 & b2 9E



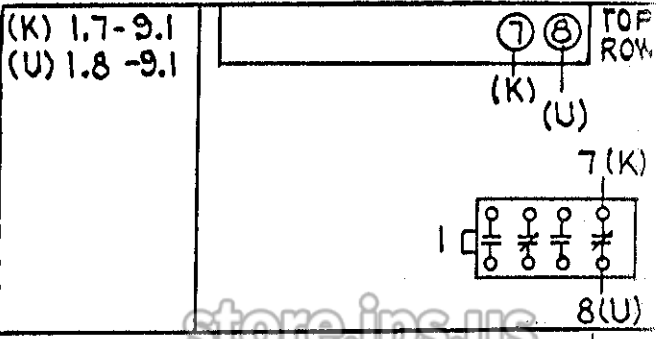
a1, b1, a2 & b2 9C



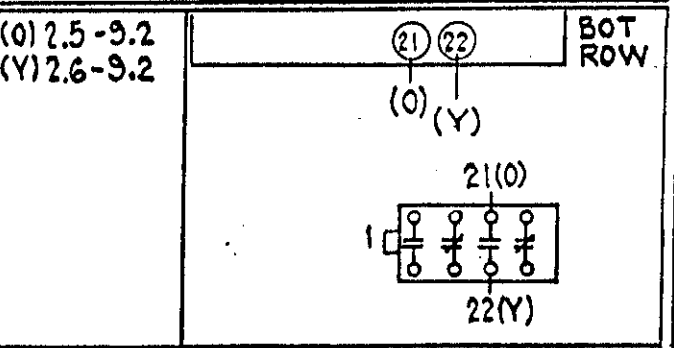
a2 9D



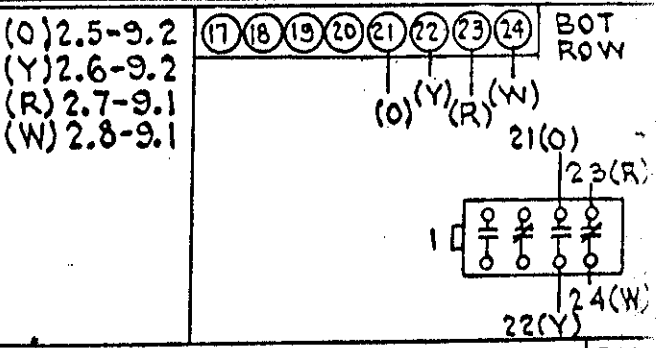
b2 & b3 9E



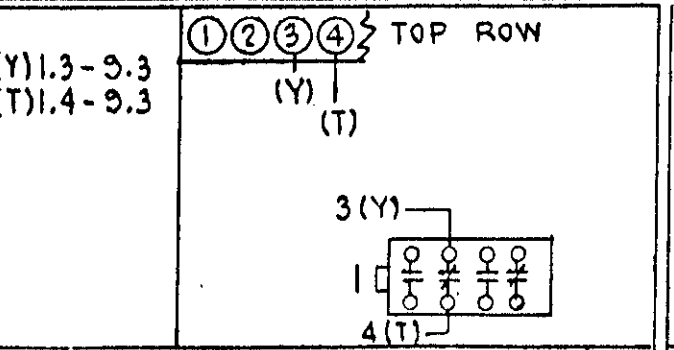
b2 9F



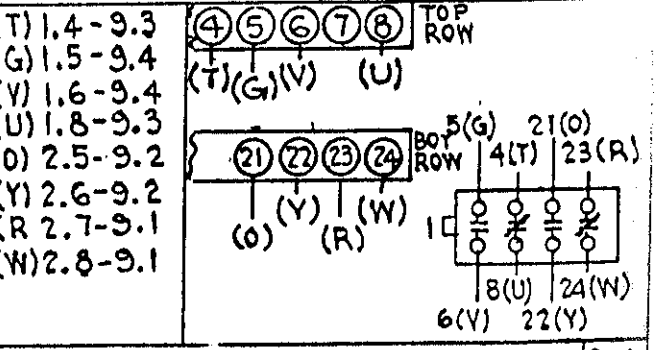
a2 9G



a2 & b2 9H



b1 9I



a1, b1, a2 & b2 9J

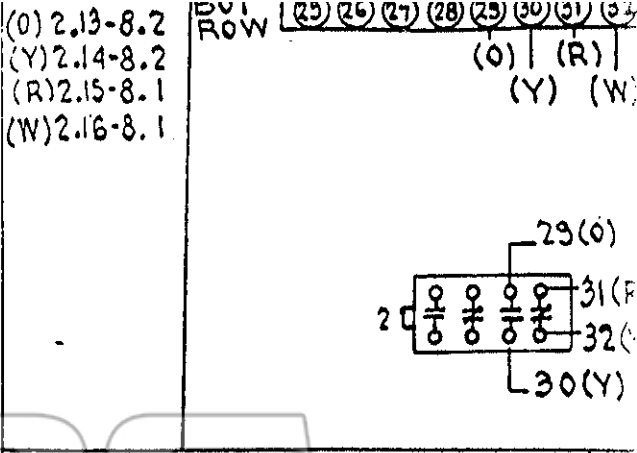
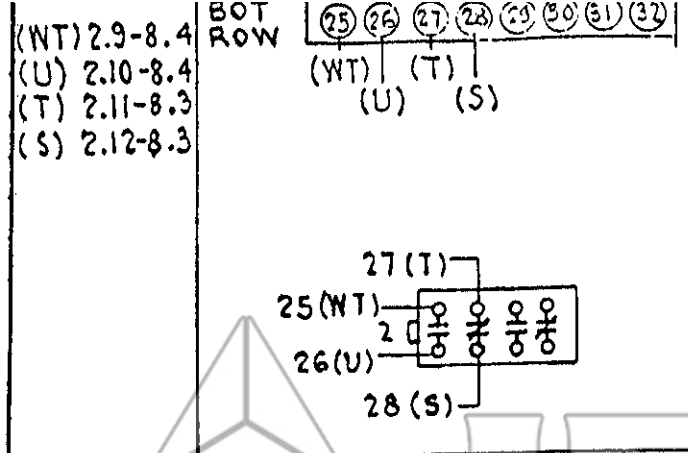
9 6A 10C

WESTINGHOUSE ELECTRIC CORPORATION
AUXILIARY SWITCH 1

800A600

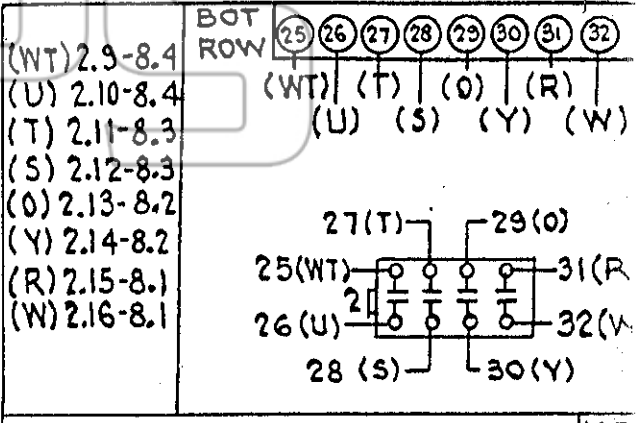
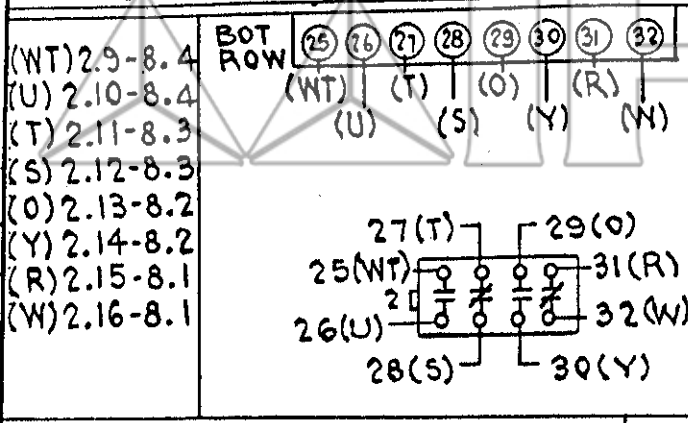
TITLE SWGR

PLANT LOCATION E. PGH PA SH 9



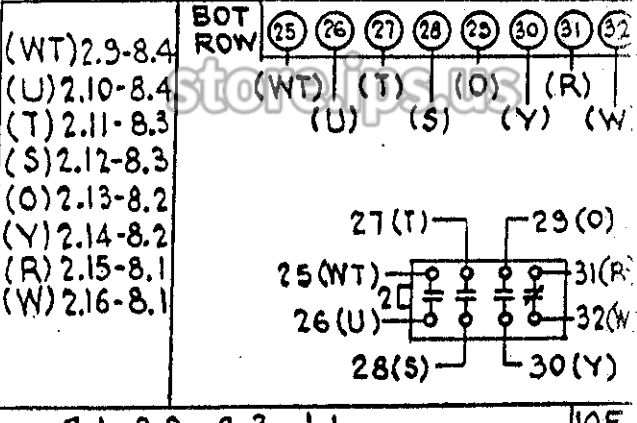
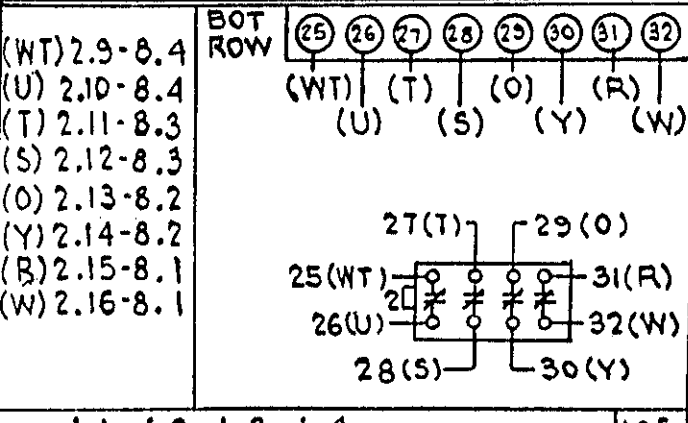
a 1 & b 1 10A

a 2 & b 2 10E



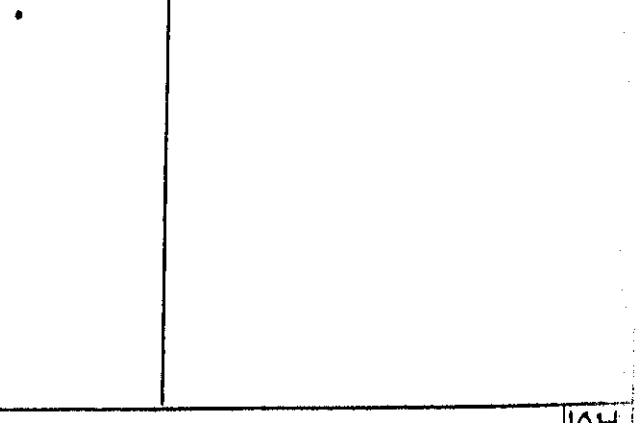
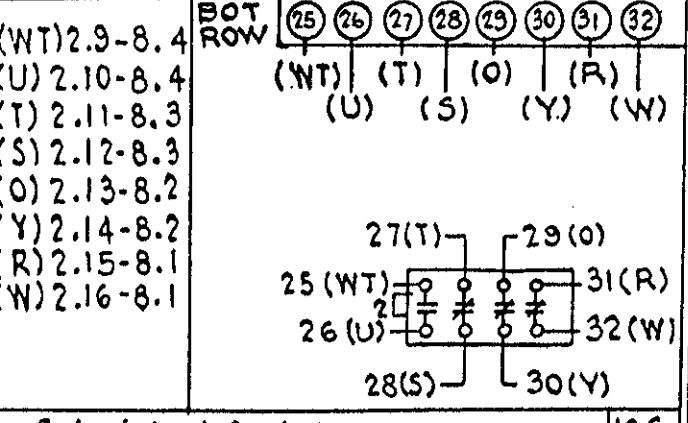
a 1, b 1, a 2 & b 2 10C

a 1, a 2, a 3, a 4 10D



b 1, b 2, b 3, b 4 10E

a 1, a 2, a 3, b 1 10F



a 1, b 1 b 2, b 3 10G

10H

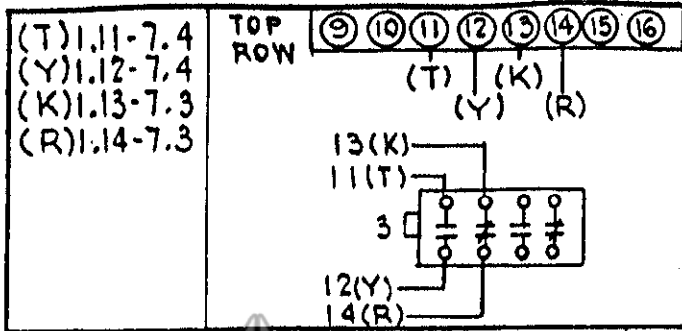
WESTINGHOUSE ELECTRIC CORPORATION

800 A 600

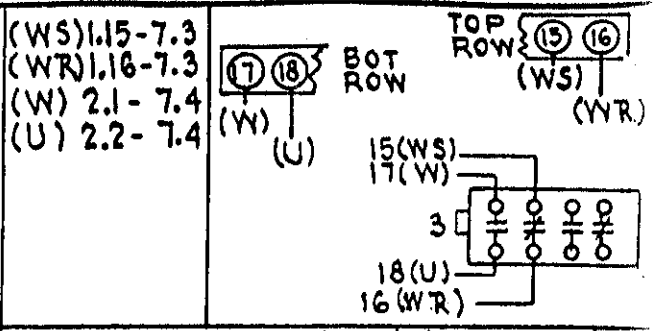
TITLE AUXILIARY SWITCH 2

DIVISION SWGR

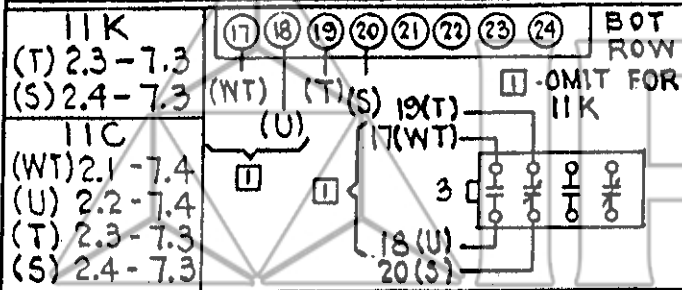
PLANT LOCATION E. PGH PA. SH 10



a1 & b1 11A

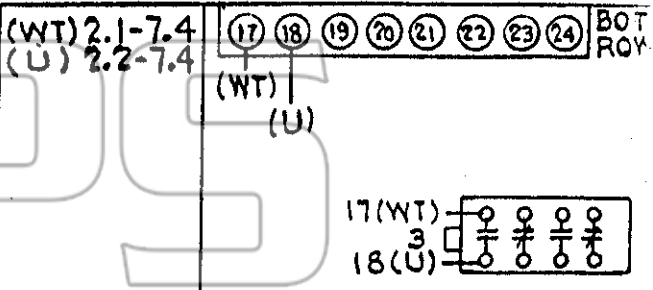


a1 & b1 11B

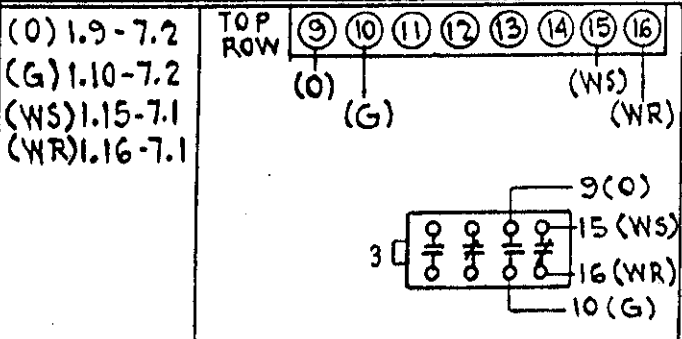


b1 11K

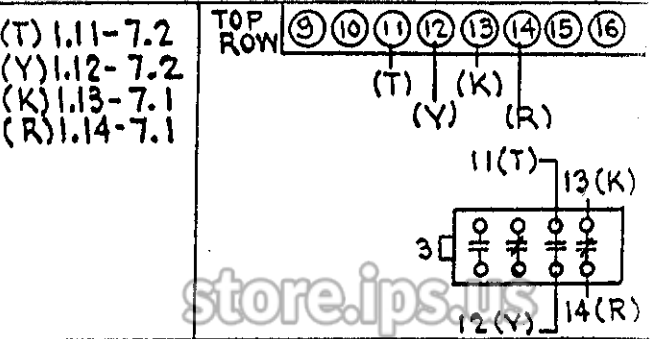
a1 & b1 11C



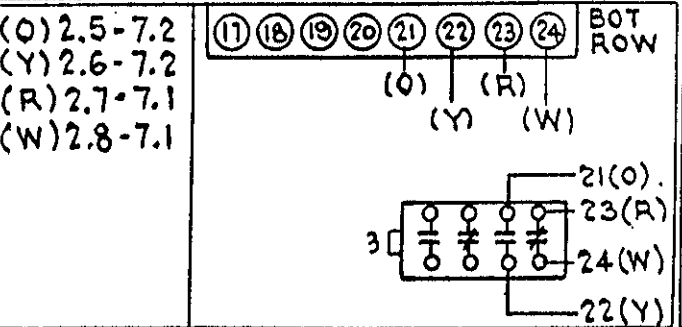
a1 11D



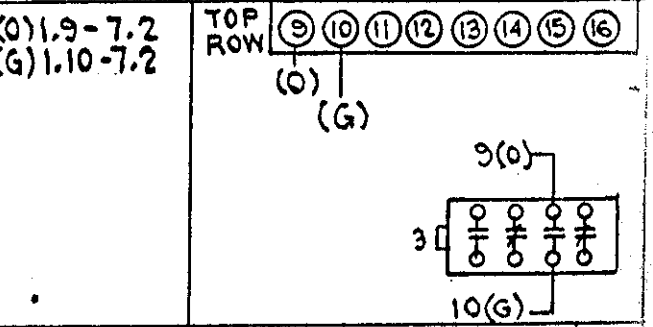
a2 & b2 11E



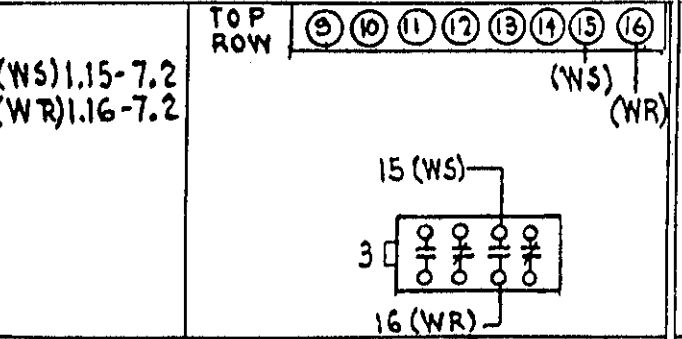
a2 & b2 11F



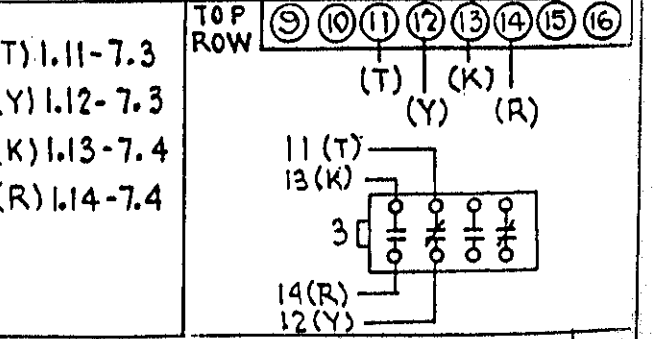
a2 & b2 11G



a2 11H



a2 11I



a1 & b1 11J

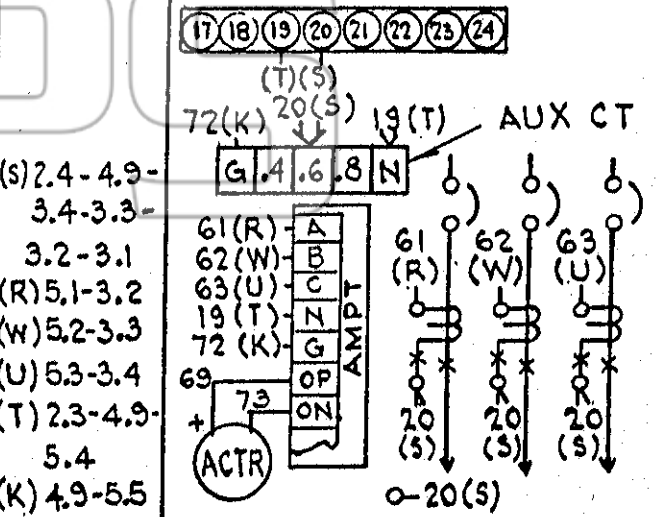
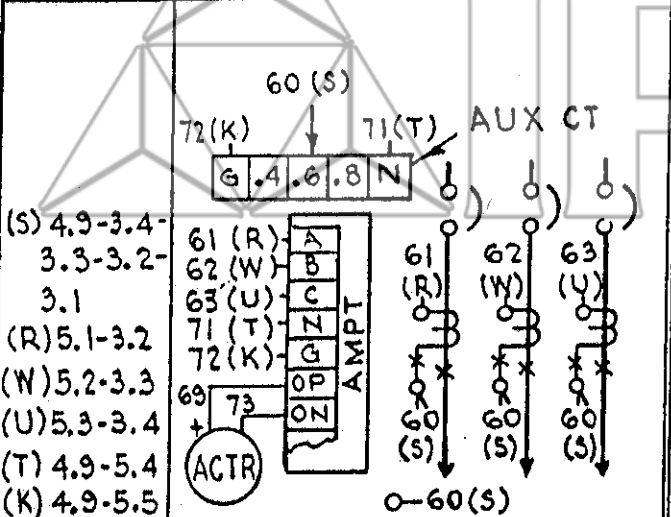
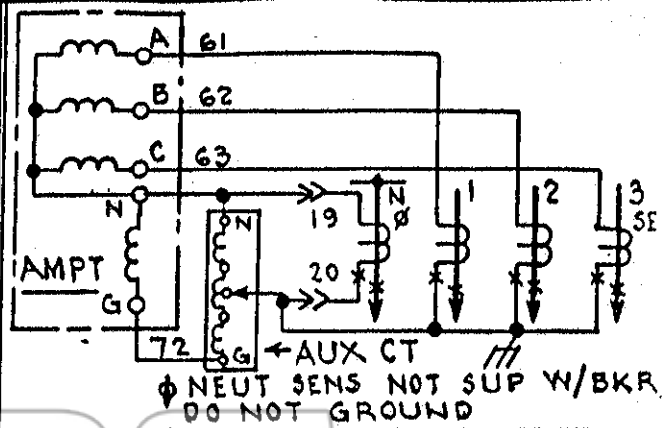
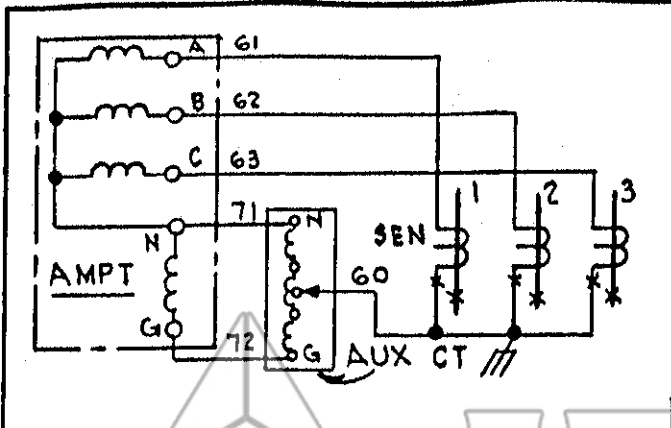
WESTINGHOUSE ELECTRIC CORPORATION

TITLE AUXILIARY SWITCH 3

800A600

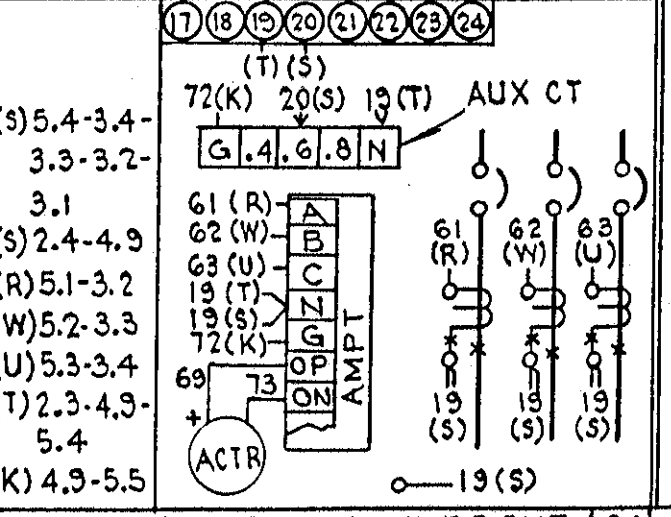
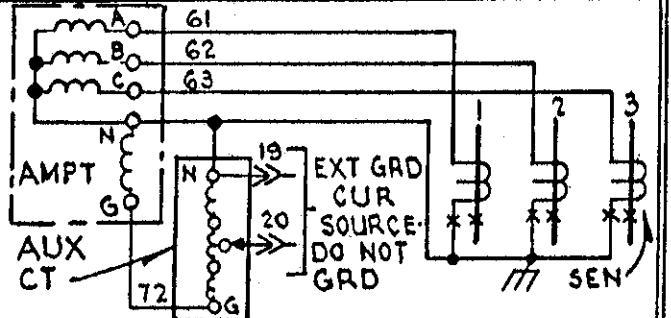
DIVISION SWGR

PLANT LOCATION E.PGH PA SH11



3-PHASE, 3 WIRE 12A

3-PHASE, 4-WIRE 12B



EXTERNAL GROUND CURRENT 12C

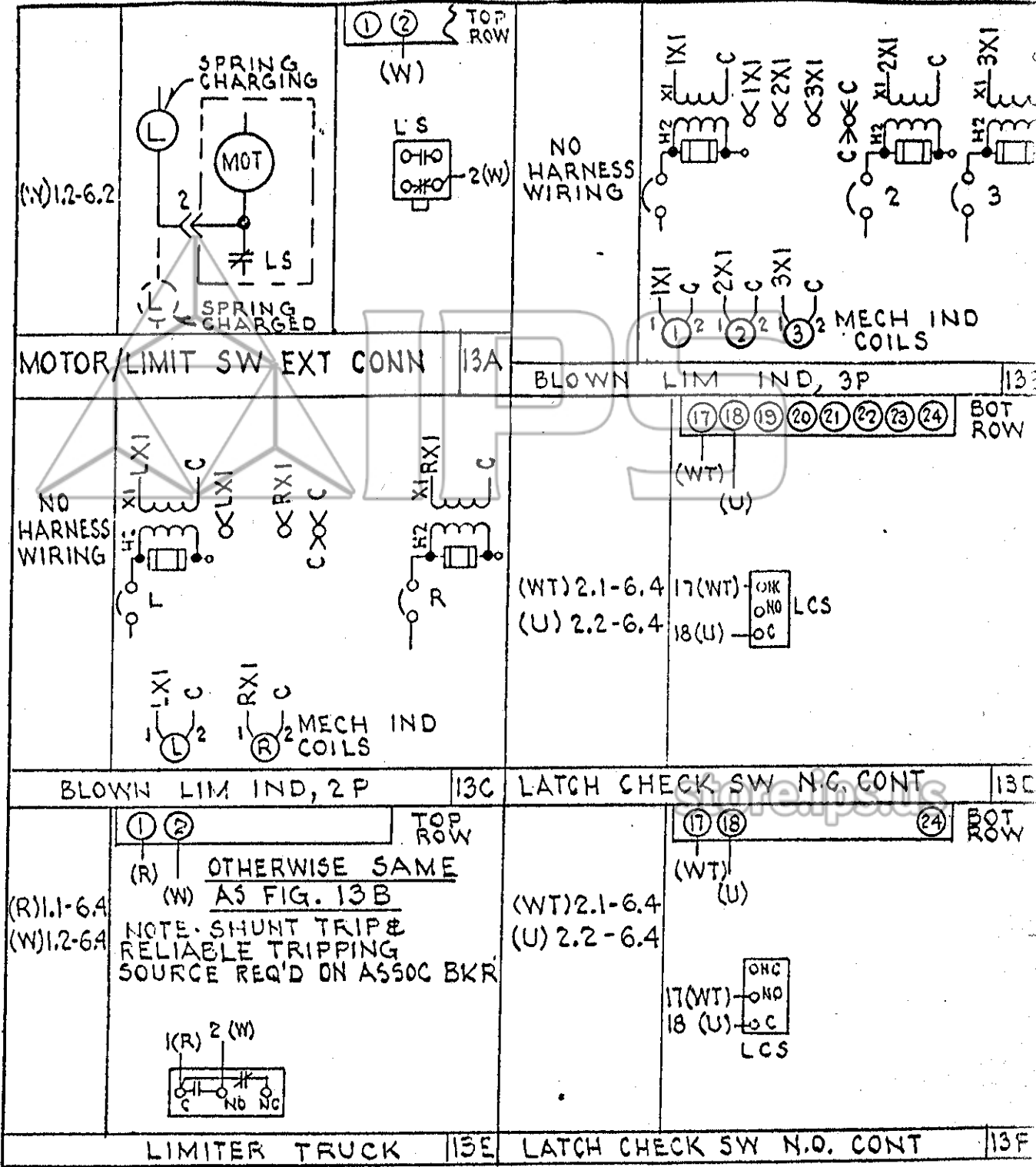
WESTINGHOUSE ELECTRIC CORPORATION

800 A 600

TITLE AUX CT FOR AMPTECTOR GRD ELEMENT, 3P

DIVISION SWGR

PLANT LOCATION E PG H, PA, SH 12



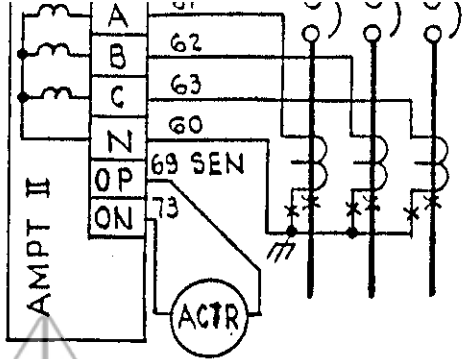
WESTINGHOUSE ELECTRIC CORPORATION
MISCELLANEOUS

800A600

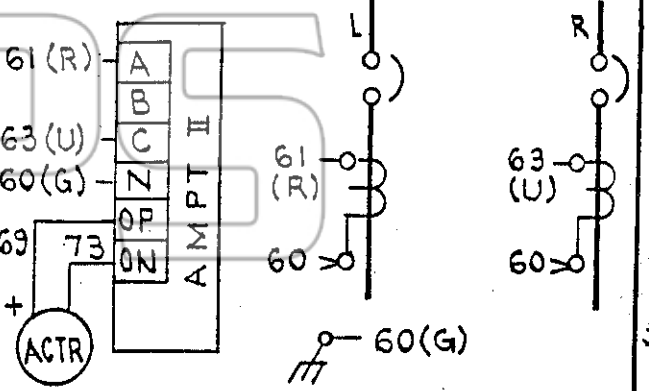
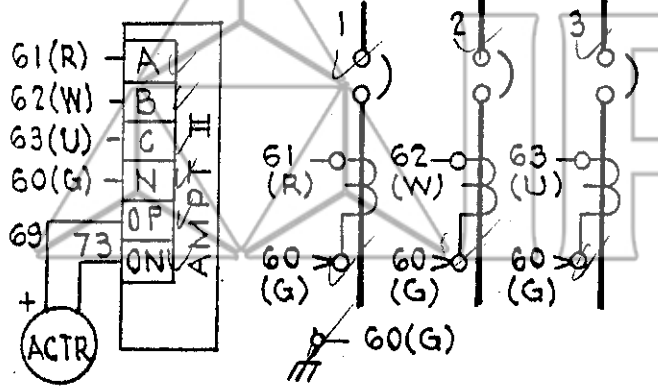
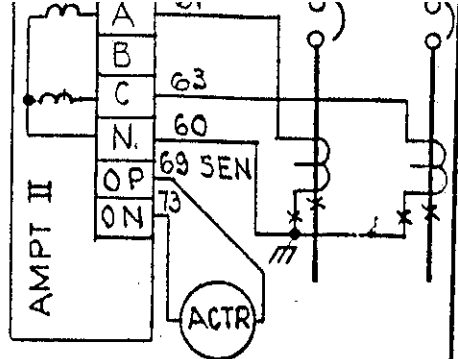
TITLE
DIVISION SWGR

PLANT LOCATION E. PGH PA SH 13

(R) 5.1-3.2
 (W) 5.2-3.3
 (U) 5.3-3.4
 (G) 5.4-3.4-
 3.3-3.2-
 3.1



(R) 5.1-3.2
 (U) 5.3-3.4
 (G) 5.4-3.4-
 3.2-3.1



3-POLE

14A

2-POLE

14B

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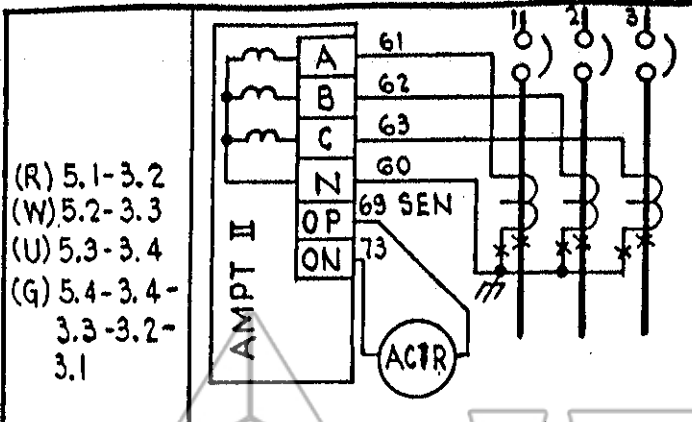
WESTINGHOUSE ELECTRIC CORPORATION

800A 600

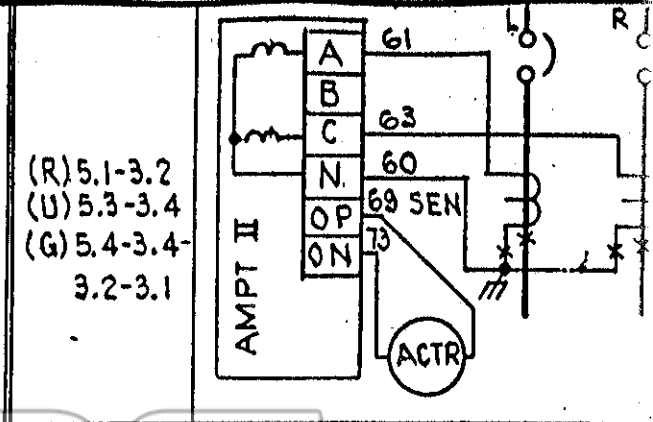
TITLE SERIES TRIP AMPTECTOR II 2P & 3P

DIVISION SWGR

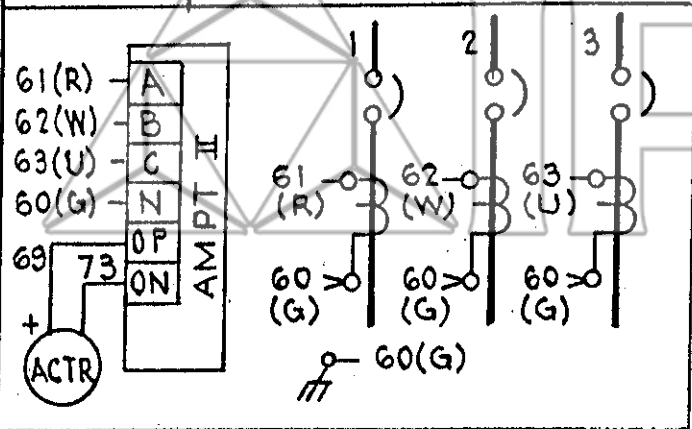
PLANT LOCATION E.PGH PA SH 14



(R) 5.1-3.2
 (W) 5.2-3.3
 (U) 5.3-3.4
 (G) 5.4-3.4-3.3-3.2-3.1

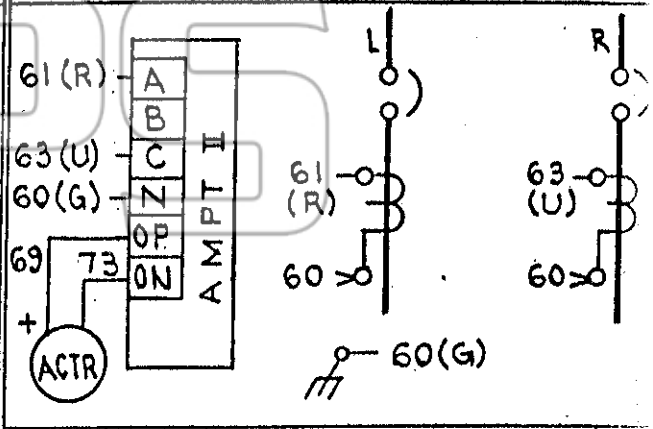


(R) 5.1-3.2
 (U) 5.3-3.4
 (G) 5.4-3.4-3.2-3.1



3-POLE

14A

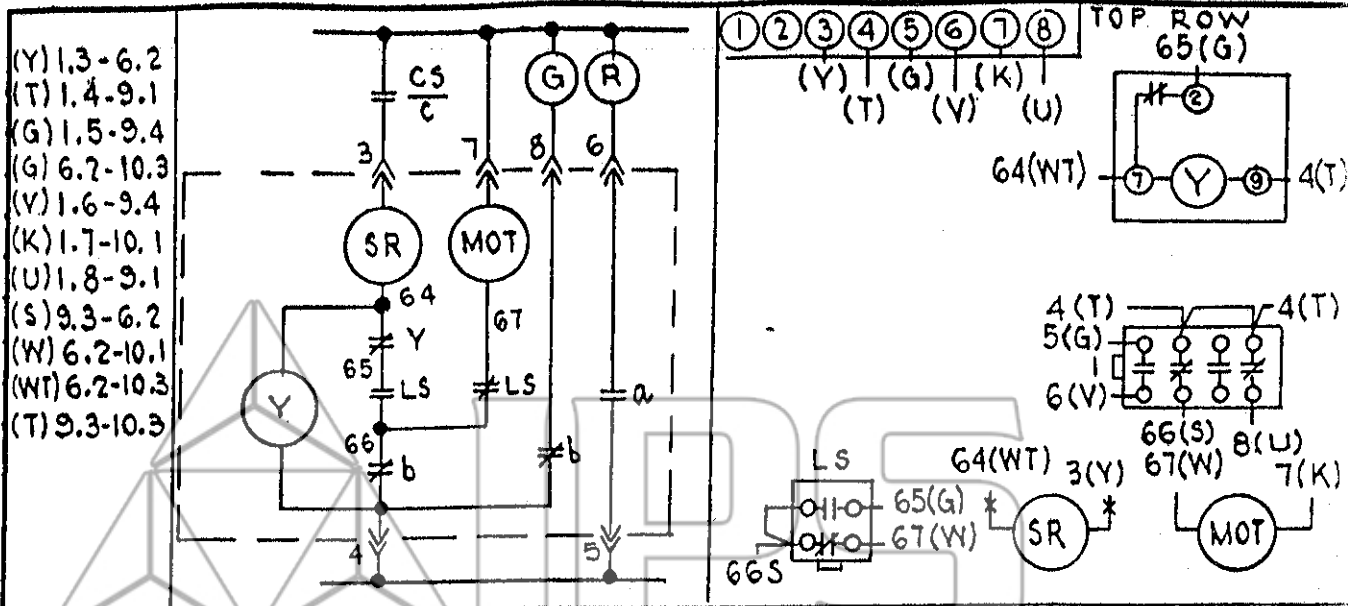


2-POLE

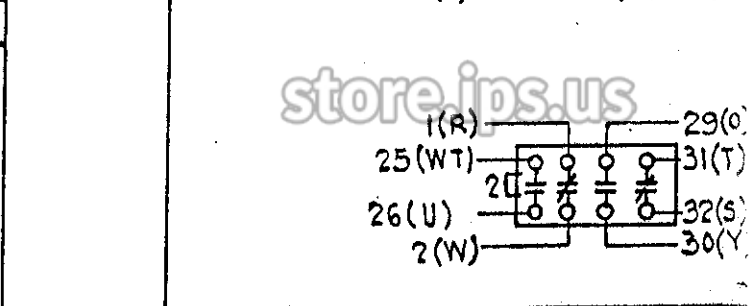
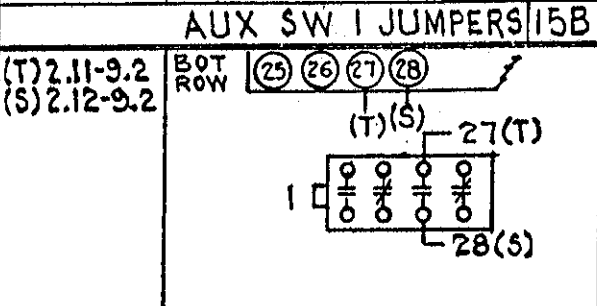
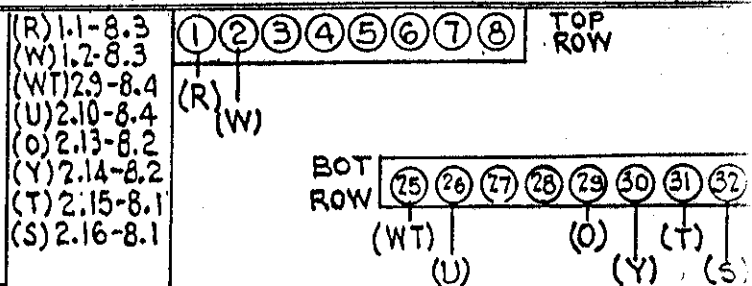
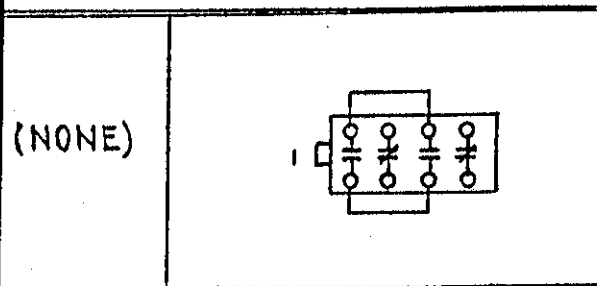
14E

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WESTINGHOUSE ELECTRIC CORPORATION TITLE SERIES TRIP AMPTECTOR II 2P & 3P		800A 600
DIVISION SWGR	PLANT LOCATION E. PGH PA SH 14	



PWR QPR MECH W/O SHUNT TRIP 15A



AUX SW 1 a2 15C AUX SW 2 a1, b1, a2, b2 15D

WESTINGHOUSE ELECTRIC CORPORATION

800A600

TITLE SPECIAL

DIVISION SW GR

PLANT LOCATION E. PGH PA SH. 15

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