TECHNICIANS: YOUR COOPERATION IS REQUESTED IN COMPLETING THIS DATA WHICH IS REQUIRED FOR THE PURPOSE OF EVALUATION AND IMPROVEMENT OF THE PRODUCT. PLEASE MAIL ASAP AFTER INSTALLATION. NO POSTAGE REQUIRED.

CSO ___________________________________ DROP __________________

CUSTOMER __________________________________

ARRANGEMENT __________________________________

EQUIPMENT __________________________________

EQUIPMENT CHECKOUT LIST

TECHNICIAN: PLACE (√) IN SQUARES BELOW WHICH DESCRIBE THE EQUIPMENT AS RECEIVED AT TIME OF INSTALLATION.

☐ EQUIPMENT MEETS ALL REQUIREMENTS

☐ SCRATCHES, DENTS, HOLES OR CRACKED GLASS

☐ MOUNTING BOLTS NOT TIGHT W/LOCK WASHERS

☐ EOLI OR CONSOLE LIGHTS NOT WORKING

☐ WIRES BROKEN OR NOT SOLDERED

☐ IMPROPER LUBRICATION

☐ STUNT BOX MALFUNCTION

☐ TYPEBOX POSITIONING OFF

☐ IMPROPER KEYBOARD TOUCH

☐ RIBBON MECHANISM MALFUNCTION RIBBON DRY

☐ WORN PARTS

☐ DEFECTIVE PRINTED CIRCUIT CARD-TYPE

TROUBLE OTHER THAN LISTED ABOVE

1. INCORRECT – STRAPPING, CODING, ADJUSTMENT, ETC. ____________________

........................................................................................................

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........................................................................................................

REPORTED BY TECH'N ___________________________ DATE ________________
ADD DIODE

TB2 STRAPPINGS

A1-C4-D5  A26-C22  B3-B12-B18
A2-C10-D24  A28-D39-C32  B4-B16
A10-B10  A29-D40  B9-C28-D22
A11-B11  A31-B33  B13-B17
A16-A17  A32-C29  B22-B26-B28-C35-D19
A18-B15  A38-B40  B23-B25-B27-B50-D49
A19-B14  A40-B42-B44  C5-D3
A21-D37  A41-C26  C16-D38
A22-C21  A43-C27-D23  C8-C11-D31
A24-D26  A49-D27  C12-C25
D2-B21-B31-B35-B38-C13-B29  C14-C24
C19-D25  C20-D16-D32  C23-C50  D15-D20-D21

ADD COMPONENTS TO TB2

D6  D2
0.5uf, 25V

D29  D30
1K, 0.5W

A2  B7
150k, 0.5W

C14  C13
10uf
Note: an additional 1/4" dia. hole must be drilled adjacent to existing hole as shown.

Top View

Perspective View

This DWG modified for system shops use.
ROW A1

- FRONT VIEW

CONNECTOR:

**- STATION CALL
**- CIRCUIT CALL
**- FIRST ITS CHAR

5 LEVEL CODE

DWG. 503186 - MODIFIED FOR: CHICAGO N.W. RR - ASR
APPLY CHANGE ORDER 4343 TO "MI" CARD

OPTIONAL B.C.

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FOR: 4343 TO "MI" CARD

CHICAGO N.W. RR - ASR
MATERIAL REQUIREMENTS FOR TB2

1 - DIODE IN4384 OR IN4385
1 - 1K 1/2 W RESISTOR
1 - .5 OR .47 MFD CAPACITOR
2 - 10 MFD CAPACITOR

TB2 STRAPPING (STRAP ALL WIRES IN ORDER SHOWN) ALL STRAPS TO BE 24 GA SOLID WIRE.

A1-C4-D5
A2-C10-D24
* D2-C13-B21-B29-B31-B35-B38
B3-B12-B18
D3-C5
B4-B16
C8-C11-D31
B9-D22-C28
A10-B10
A11-B11
C12-C25
B13-B17
B14-A19
C14-C24
B15-A18
D15-D20-D21
A16-A17
C16-D38
D16-C29-D32
C19-D25
D19-B22-B26-B28-C35
A21-D37
C21-A22
C22-A26
B23-B25-B27-D49-B50
C23-C50
D23-C27-A43
A24-D26
C26-A41
D27-A49
A28-C32-D39
A29-D40
C29-A32
A31-B33
A38-B40
A40-B42-B44

ADD THE FOLLOWING COMPONENTS

* THIS WIRE TO BE WHITE 24 GA SOLID WIRE.
CHICAGO NORTHWESTERN R.R. PLAN 115 OUTSTATION ASR POLAR

MATERIAL REQUIREMENTS FOR 11704-C CARD CHASSIS

1 - 11704-C CARD CHASSIS
1 - CONNECTOR 500100-230
2 - 4/40-3/8" R.H.M.S.
5 - LUG TERMINAL, RED SPADE CRIMP, IDP 01360017

CARDS

12 - NOR GATE 11082-A
4 - FLIP FLOP 11087-A
1 - EMITTER FOLLOWER 11083-A
1 - START-STOP CLOCK 11953-B
2 - EMITTER FOLLOWER 11083.1-A
12 - UNIVERSAL FUNCTION 11674-B
1 - POWER AMPLIFIER 11086.1-B
1 - OSCILLATOR 12154-B

1. APPLY CHANGE ORDERS 4346, 4353 AND 4829
2. USE CONNECTOR 500100-230 IN SLOT A2-A13. USE 4/40-3/8" R.H.M.S.
3. STRAP POWER BUSS WITH #22 GA SOLID WIRE AS FOLLOWS:
   A2XA13-13 TO TB1-3
   A2XA13-14 TO TB1-4
   A2XA13-15 TO TB1-5
4. STRAP REAR OF SELECTOR AS FOLLOWS: (USE #24 GA SOLID WIRE)
   A2XA13-H TO A2XA13-L
   A2XA13-1 TO C36
   A2XA13-2 TO A3
   A2XA13-E TO A20
   A2XA13-F TO A32
   A2XA13-H TO C31
   A2XA13-J TO A34
5. STRAP OSCILLATOR SOCKET A2-A11 FROM D TO L (75 WPM)
6. APPLY CHANGE ORDER 4343 TO START-STOP CLOCK CARD 11953-B
7. CLEAN ALL CARDS AND INSTALL CARDS PER DWG. 503186
8. CODE UNIVERSAL FUNCTION CARD AND PLACE A "KUM-KLEEN" LABEL
    ON OUTER EDGE OF UNIVERSAL FUNCTION CARD STATING WHAT
    FUNCTION CARD IS CODED FOR.
9. REMOVE ADDITIONAL 3" OF OUTER SLEEVING FROM TWO CONDUCTOR
    CABLE. CRIMP RED TERMINAL LUGS TO TWO CONDUCTOR CABLE AND
    THREE CONDUCTOR CABLE.
CHICAGO NORTH WESTERN R.R. PLAN 115 OUTSTATION ASR POLAR

MATERIAL REQUIREMENTS FOR ASSEMBLY OF RELAY RACK 160387

1 - RELAY RACK MOD KIT 160387
1 - 11706-B POWER SUPPLY
1 - 11704-C CARD CHASSIS
5½' - #18 GA 3 CONDUCTOR CABLE
6 - LUG TERMINAL RED SPADE CRIMP IDP 01360017
8 - 12/24 SPEED NUTS
8 - 12/24-1/2" R.H.M.S.
8 - 12/24 SHAKEPROOF WASHERS

ASSEMBLY OF RELAY RACK 160387

1. MODIFY AND ASSEMBLE RACK 160387 PER DWG. 507947
2. REMOVE 3" OF OUTER SLEEVING ON BOTH ENDS OF 5-1/2' 3 CONDUCTOR CABLE AND CRIMP RED SPADE TERMINAL LUGS TO BOTH ENDS. ATTACH CABLE TO POWER SUPPLY BY PUTTING CORD THROUGH EXISTING HOLE ON REAR OF POWER SUPPLY, KNOTTING CORD AND CONNECTING TO TB1.

3. MOUNT POWER SUPPLY TO RACK (SECOND AND SEVENTH HOLES FROM BOTTOM) WITH FOUR 12/24-1/2" R.H.M.S., SHAKEPROOF WASHERS, AND 12/24 SPEED NUTS.

4. MOUNT 11704-C CARD CHASSIS ABOVE POWER SUPPLY WITH FOUR 12/24-1/2" R.H.M.S., SHAKEPROOF WASHERS AND SPEED NUTS.

5. CONNECT 3 CONDUCTOR CABLE FROM CARD CHASSIS TO POWER SUPPLY BY INSERTING CABLE THROUGH EXISTING HOLE ON LEFT SIDE OF POWER SUPPLY, KNOTTING CORD AND ATTACHING TO TB2. STRAP TB2-2 TO TB2-3.

6. COIL UP SLACK AND WRAP WITH TWO WRAPS OF 3/4" MASKING TAPE. PLACE CABLE BETWEEN EQUIPMENT AND SIDE FRAME OF RACK.
CHICAGO NORTH WESTERN R.R. PLAN 115 OUTSTATION ASR POLAR

MATERIAL REQUIREMENTS FOR FINAL ASSEMBLY OF M28 ASR CONSOLE

1 - M28 ASR CONSOLE
1 - MOUNTING RACK WITH POWER SUPPLY AND CARD CHASSIS
1 - MOD KIT 159384 (TERMINAL 181-220)
1 - 11707 WIRING CABINET
1 - 9828 "U" CONNECTOR
2 - 503652 "R.F." CONNECTOR
1 - 503626 "W.C." CONNECTOR
1 - 502656 ADAPTER
1 - 182510 POWER CORD
1 - SIGNAL CORD 900643
1 - CONTROL PANEL 11705-B
2 - SPARK KILLERS 9071
2 - 1/4-20-1/2" R.H.M.S.
2 - 1/4-20 LOCK WASHERS
4 - 12/24-1/2" R.H.M.S.
4 - 12/24 SHAKEPROOF WASHERS
2 - 12/24 SPEED NUTS
2 - 12/24 NUTS
4 - 6/32-1/2" R.H.M.S.
4 - 6/32 FLAT WASHERS
4 - 6/32 LOCK WASHERS
4 - 6/32 NUTS
3 - LUGS TERMINAL RED SPADE
8 - SOLDERLESS LUGS
4' - 3 CONDUCTOR GRAY CABLE
1 - MOD KIT 176713 (LOW PAPER) (OPTIONAL EQUIPMENT)
1 - DIODE IN4384 OR IN4385
2 - CORD GRIPS #112
1. INSTALL MOD KIT 159384 WITH SCREWS PROVIDED ABOVE TERMINAL BLOCKS NUMBERED 1 TO 40.

2. STRAP "C" BLOCK OF ASR AS FOLLOWS: USE #22 GA SOLID WIRE EXCEPT AS SPECIFIED.

3. RELOCATE SIGNAL BELL: FROM C29 TO C23 C30 C31.

4. RELOCATE E.O.L. LAMP AND COPY LIGHT SWITCH:

   BLACK C36 TO C149
   WHITE C37 TO C132
   BLUE C38 TO C183
   RED 144 TO C132

   REMOVE STRAP FROM 143 TO 146.

5. CONNECT THE FOLLOWING CABLES PER DWG. 505136:

   "U" CONNECTOR 9828
   "W.C" CONNECTOR 503626
   ADAPTER 502656
6. Connect the "R" and "F" connector as follows:

**"R" CONNECTING CORD 503652**

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<th>Wires Start From Farthest End of Cable</th>
<th>&quot;C&quot; Block Connections</th>
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**"F" CONNECTING CORD 503652**

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* TAPE UP TERMINALS
CHICAGO NORTH WESTERN R.R. PLAN 115 OUTSTATION ASR POLAR

7. REMOVE LAMPS FROM REAR OF SWITCHES ON CONTROL PANEL 11705-B. REMOVE BLANK FACE PLATE ON ASR AND MOUNT CONTROL PANEL, WIRE CONTROL PANEL TO "C" BLOCK PER DWG. 505136.

8. MOUNT SPARK KILLERS AT A CONVENIENT LOCATION IN THE REAR AND TO THE LEFT OF ASR WITH FOUR 6/32-1/2" R.H.M.S., FLAT WASHER, LOCK WASHER AND NUTS. WIRE TO "C" BLOCK PER DWG. 505136 WITH 3 CONDUCTOR GRAY CABLE, CRIMP TERMINAL BLOCK END OF CABLE WITH SOLDERLESS TERMINALS LUGS.

9. MOUNT 11707 WIRING CABINET WITH TWO 1/4-20 R.H.M.S. AND LOCK WASHERS. ATTACH "W.C." CONNECTOR 503626. INSTALL EXTERNAL HANDLE TO POWER SWITCH ON 11707.

10. WHEN LOW PAPER MOD KIT 176713 IS REQUIRED, ASSEMBLE AND WIRE MOD KIT, REMOVE PLATE ON REAR OF M28 CONSOLE (ABOVE 11707 WIRING CABINET) FOR FORM FEED PAPER. INSTALL LOW PAPER CONTACT ABOVE THE OPENING ON THE HINGE WITH HARDWARE PROVIDED. CONNECT WIRES AS FOLLOWS:

- PURPLE - 29
- YELLOW - 30

11. PUNCH TWO KNOCK OUTS FOR TWO CORD GRIPS IN BASE OF CONSOLE ON RIGHT SIDE (SEE BELOW) AND MOUNT CORD GRIPS. INSERT AC POWER CORD AND SIGNAL CORD THROUGH CORD GRIPS AS SHOWN BELOW. WIRE TO "C" BLOCK AS FOLLOWS: (USE TEMPLATE IN A & W SHOP)

AC POWER CORD (USE RED SPADE LUGS)
- WHITE TO C40
- BLACK TO C39
- GREEN TO FRAME GROUND

SIGNAL CORD (USE SOLDERLESS LUGS)
- BLACK TO C1
- WHITE TO C2
- RED TO C3
12. MODIFICATION TO BASE OF CONSOLE FOR EQUIPMENT RACK.
   A. DRILL A 1/4" HOLE IN THE SECOND MOUNTING STRIP (FROM TOP) 8-1/2" IN FROM THE LEFT. (CENTER BETWEEN THE SIXTH AND SEVENTH HOLE)
   B. DRILL THE EXISTING HOLES IN BASE CONSOLE NEAR THE FRONT TO 1/4".

13. INSTALL EQUIPMENT RACK IN BASE OF CONSOLE, LINE UP RACK WITH FIRST HOLE ON THE RIGHT, SECOND MOUNTING STRIP (FROM TOP). MOUNT RACK WITH FOUR 12/24-1/2" R.H.M.S., SHAKEPROOF WASHER, TWO 12/24 SPEED NUTS AND TWO 12/24 NUTS.

14. CONNECT TWO CONDUCTOR CABLE FROM CARD CHASSIS TO "C" BLOCK.
   WHITE TO C2
   BLACK TO C20

15. CONNECT AC CORD FROM POWER SUPPLY TO "C" BLOCK.
   BLACK TO C39
   WHITE TO C40
   GREEN TO FRAME GROUND

16. CONNECT ADAPTER CORD PLUG TO 11704-C CARD CHASSIS.

17. INSTALL PRINTER AND TRANSMITTER. CONNECT "U" CONNECTOR AND "R" AND "F" CONNECTOR TO TRANSMITTER AND PRINTER.
CHICAGO NORTH WESTERN R.R. PLAN 115 OUTSTATION ASR POLAR

MODIFICATION OF 11707 WIRING CABINET

MATERIAL REQUIREMENTS

1 - KRP-1C-115V AC RELAY
1 - 202 RELAY
4 - 8/32 FLAT WASHERS #101633 TELETYP 01777201

1. MODIFY 11707 WIRING CABINET AS FOLLOWS:
   REFER TO DRAWING 503695-D-8, IN SPECIFICATIONS 14992
   ✓1. REMOVE WIRES AT XK2-6 AND XK2-1 AND TAPE BACK
   ✓2. REMOVE DIODE ACROSS XK2-2 AND XK2-7
   ✓3. ADD WIRE FROM XK2-1 TO TB1-5
   ✓4. ADD WIRE FROM XK2-3 TO J1-28

2. LOWER SIDE BRACKETS ON WIRING CABINET USING FLAT WASHER UNDER SCREWS.

3. PLUG IN RELAYS.

4. LABEL WIRE CABINET: "MODIFIED FOR MOTOR ON RELAY".
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<td>27 DELETE SPACE ON BLANK</td>
<td>BL. 211906</td>
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<td>28 BELL SIGNAL</td>
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<td>38 DELETE SPACE ON LINEFEED</td>
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<td>40 LINEFEED</td>
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<td>41</td>
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<tr>
<td>42 RESERVED FOR FORM FEED OUT, IF USED</td>
<td></td>
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</tbody>
</table>

**NOTES:**

**SIGNAL BELL:**
Connect to R6 and R9 if used with solid state selector. Connect to 1 and 3 of stunt box cord if not being used with solid state selector; (unless advised to do otherwise).

**Diagram:**
- Bell
- Western Union
- Standard stunt box
- Drawing number: 1
- Issue date: A
MATERIAL:

1 - Box 13551-B Line Interface
1 - Set 13588-A Data
2 - SIGNAL CORDS 900643

A. Box 13551-B Line Interface

1. Connect a line cord
   J6-1 Black
   J6-2 Red
   These terminals are located on the top inside edge of the Vertical Mother Board. Label Cord "2 Wire S and R"

2. Connect a line cord
   TB1-1 Red
   TB1-2 Black
   TB1-3 White
   Label Cord "To Teletype Equipment"

B. Program the 13588 Data Set Card by adding straps or switches

VADC CARD OR SWITCH CARD

Add strap A  E1 to E2 Strap
Add strap D  S2-1 Off
Add strap N  S2-2 On
Add strap B  S2-3 On
Add strap K  S2-4 Off
No strap M  S1-1 Off
No strap C  S1-2 Off
No strap H  S1-3 Off
No strap J  S3-1 Off
No strap E  S3-2 On
No strap G  S3-3 On
No strap F  S3-4 On

Push the Switches Down to Posn Indicated.

Install the 13588 Card in J3 which is the Card Connector nearest the Power Supply. Components up.

Route the two Signal Cords so cover will close.
**SYSTEM SHOP PROJECT WORK ORDER**

**TO SYSTEM SHOP:** ALLENTOWN, PA  DALLAS, TEXAS

**PATRON:** Chicago N.W. RR  

**CSO/PROJ.** 02-12263-B  

**DATE ISSUED:**  

**DATE REQUIRED:**  

**SERVICE DATE:** 1-15-79

**AMENDMENT:** 1

---

### A GENERAL REQUIREMENTS SYSTEM

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<tr>
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<tr>
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<td>A</td>
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<td>U/S SPACE</td>
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### B SPECIFIC DROP REQUIREMENTS

<table>
<thead>
<tr>
<th>DROP NUMBER</th>
<th>DROP NUMBER</th>
<th>SPECIAL INSTRUCTIONS</th>
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<tbody>
<tr>
<td>13 15</td>
<td>13 17</td>
<td>to adapt this set for TLA add 2 zones dials</td>
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<tr>
<td>13 18</td>
<td></td>
<td>Adjust ASR to least sed Order possible. Adjust ASR Rec to least center Possible.</td>
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**UNIT CODE**

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**RTING:**

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**SS FORM 067(11-73)**
NOTES:
1. ALL VIEWS OF SWITCH TAKEN FROM REAR
2. SECTION 21 CLOSEST TO POINT OF SWITCH
3. STRAP “AH” TERMINAL BLOCK AS SHOWN

AS FFC’D FROM TTY C67R
Dwg 16474-9

MODIFIED WIRING
PER Dwg. 51240-9 & 518165

western union

SPLIT ASR SET
LAP-3 KBD AUXILIARY SWITCH
MODIFICATIONS

ISSUE DATE DRAWING NUMBER SHEET
A 10-9-69 SS-1124 1
### General Requirements System

<table>
<thead>
<tr>
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<th>Style</th>
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<td>KBD Layout</td>
<td>A</td>
<td>U/S Space</td>
<td>FFO Char</td>
<td>BELL CHAR</td>
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<td>EDA</td>
<td>EDM</td>
<td>FIG H LTR</td>
<td>F. DUX</td>
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<td>BOCST CALL</td>
<td>EOT</td>
<td>SLA</td>
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### Specific Drop Requirements

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<th>Special Instructions</th>
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<tr>
<td>BB</td>
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SS FORM 067111-73
TO SYSTEM SHOP: ALLENTOWN, PA  DALLAS, TEXAS

PATRON: Chicago N.W. RR

CSO/PROJ. 62-12263-B

(A) GENERAL REQUIREMENTS SYSTEM

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<th>V/TAB CHAR</th>
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<th>F. DUX</th>
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(B) SPECIFIC DROP REQUIREMENTS

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<td>RC</td>
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SPECIAL INSTRUCTIONS

SS-1315
1317
1318

UNIT CODE

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CHARGE REPAIRS TO S.O. 05-03911-B

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SS FORM 067(11-73)
MATERIAL REQUIREMENTS FOR ASSEMBLY OF M28 KSR

1 - M28 KSR CONSOLE
1 - 9100 WIRING CABINET W/MOUNTING STUDS
1 - 202 RELAYS
1 - POWER CORD 182510
1 - SIGNAL CORD 900643
1 - W.U. NAME PLATE 901230
2 - 4/40 3/16" F.H.M.S.

MISCELLANEOUS ITEMS

3 - RED TERMINAL LUGS
2 - SOLDERLESS LUGS
2 - CORD GRIPS #112
1. MODIFICATION AND MOUNTING OF THE FOLLOWING EQUIPMENT

A. MATERIAL REQUIRED

1 - W.U. NAME PLATE 901230
2 - 4/40 3/16" F.H.M.S.
1 - POWER CORD 182510
1 - SIGNAL CORD 900643
2 - CORD GRIPS #112

B. USE W.U. NAME PLATE 901230 AS TEMPLATE ON COPYHOLDER, DRILL AND TAP FOR 4/40 SCREW. MOUNT WITH 4/40 3/16" F.H.M.S.

C. MOUNT CORD GRIPS IN BASE OF CONSOLE - ONE ON THE RIGHT SIDE AND ONE ON THE LEFT AS SHOWN BELOW.

![Diagram showing signal cord and power cord placement]

D. INSERT CABLES AS SHOWN ABOVE. EXTEND TO "C" BLOCK. TIGHTEN CORD GRIPS (DO NOT CONNECT WIRES).
STRAPPING OF "C" BLOCK, WIRING OF CABLES

A. MATERIAL REQUIRED

1 - 9100 WIRING CABINET W/MOUNTING STUDS
3 - RED SPADE LUGS
2 - SOLDERLESS TERMINAL LUGS

B. MODIFICATION OF 9100 WIRING CABINET

STRAP TS1-2 TO TS1-3

C. INSERT 202 RELAY ON WIRING CABINET

D. MOUNT 9100-C WIRING CABINET IN M28 RO W/STUDS PROVIDED

E. INSTALL EXTERNAL HANDLE TO POWER SWITCH

F. CONNECT CABLES FROM 9100-C WIRE CABINET AS FOLLOWS:

<table>
<thead>
<tr>
<th>LEFT CABLE &quot;C&quot; BLOCK</th>
<th>COLOR</th>
<th>RIGHT CABLE &quot;C&quot; BLOCK</th>
<th>COLOR</th>
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<tbody>
<tr>
<td>1</td>
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<td>21</td>
<td>GRAY</td>
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</tr>
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</table>
G. STRAP "C" BLOCK AS FOLLOWS: (22 GA SOLID WIRE EXCEPT AS INDICATED)

2-10-11
4-8-9
5-6
30-37 (#18 GA SOLID WIRE BLACK)
12-13

H. CONNECT A.C. CORD AND SIGNAL CORD TO "C" BLOCK

A.C. CORD (USE RED SPADE LUGS)

BLACK - 39
WHITE - 40
GREEN - FRAME GROUND

SIGNAL CORD (USE SOLDERLESS TERMINAL LUGS)

BLACK - C1
WHITE - C2
RED - TAPE BACK

NOTE 1:

WHEN PAPER WINDER IS REQUIRED ADD A 6' 3 CONDUCTOR #18 GA CABLE WITH CONNECTOR 234825-902290 (TWIST LOCK FEMALE) INSERT CABLE THROUGH CORD GRIP AND WIRE AS FOLLOWS:

CONNECTOR COLOR "C" BLOCK

- WHITE C-40
- GREEN FRAME GROUND
- BLACK C-37

INSERT "R" AND "F" CONNECTOR IN CABLE HOLDER AND TIGHTEN CABLE HOLDER.

INSTALL PRINTER WITH STUDS PROVIDED. PLUG IN "R" AND "F" CONNECTORS.
### CUSTOMER SERVICE ORDER

<table>
<thead>
<tr>
<th>LINE NO</th>
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<th>AMEN</th>
<th>TYPE</th>
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<th>OCO</th>
<th>RELATED ORDER</th>
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| DESCRIPTION OF WORK & REMARKS |

| OTHER RELATED ORDER NO. |

### CODES
- 854 - 'A' ACCT
- 855 - 'B' ACCT
- 856 - 'C' ACCT
- 857 - 'D' ACCT
- 858 - BILLABLE R.R.
- 859 - BILLABLE R.R.
- 860 - BILLABLE 3RD PARTY
- 861 - BILLABLE OTHERS

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SYSTEM SHOPS

TEST PROCEDURE

PATRON: PERSHING & CO

LOCATION: 

ACO 

TYPE OF EQUIPMENT:
1 - M28C ASR-1C SET, 100 WPM WITH 11708A SOLID STATE SELECTOR PLAN 117F

SPECIFICATIONS & DRAWINGS REQUIRED FOR TESTS:
*(NO NUMBER) TEXT SPECIAL INSTALLATION INSTRUCTIONS - ARRANGEMENT #1
*SPEC. 14893-B PLAN 115B/PLAN 117B OUTSTATION - INSTALLATION (REFERENCE ONLY)
*SPEC. 14795-B SOLID STATE SELECTOR 11708-B - THEORY & OPERATION
*LWG. 508765-10 SSS 11708 - DIGITAL DECODER - THEORY & LOGIC - 5 LEVEL BAUDOT CODE.
*DG. 532132 PERSHING - PLAN 115/117 - SPLIT ASR - PROGRAM
*DG. 532134 PERSHING - SPLIT ASR - STRAPPING
*DG. 532133 PERSHING - PLAN 115/117 - SPLIT ASR - LOGIC SCHEMATIC
*DG. 525214 ELECTRONIC MOD. KIT 12509A - BLANK ILLING - SCHEMATIC
*DG. 525215 ELECTRONIC MOD. KIT 12510A - AUTO REQUEST COUNTER - SCHEMATIC
*DG. 518180 STUNT BOX ARRANGEMENT

*INDICATES COPIES TO BE ATTACHED AND SENT TO FIELD WITH SET.

ASSIGNED INVITATION TO SEND (ITS) -------------- "FIG S _____" 
ASSIGNED STATION SELECTION (SSC) -------------- "W _____" 
OUTSTATION TRANSMITTER DISCONNECT (EOT) -------------- "BLANK"
OUTSTATION PRINTER DISCONNECT (EOA) -------------- "FIG-H-LTR" (3 SEQUENTIAL
END OF ADDRESS (EOA) ------------------------------ "SPACE"
FORM FEEDOUT CONTROL ------------------------------ U/C "H"
BROADCAST CALL ----------------------------------- WQ

TEST NO. OUTSTATION CHECK LIST (CIRCLE NUMBER WHEN TEST COMPLETED)

1. ------------ - CONNECT SEND (C3) & REC (C1) LEGS TO POLAR REPEATER.
CONNECT TELEG. GND (C2). (LEG SWITCH ON 11707 WC
SHOULD BE IN "NORMAL" POSITION).

A) ------------ - ADJUST SEND CURRENT (J5) R15 FOR 50 M.A.
B) ------------ - ADJUST REC. CURRENT (J2) R12 FOR 50 M.A.
C) ------------ - ADJUST BIAS (J4) R14 FOR 20 M.A. (J4 READS POLARENTIAL
CURRENT-NO BREAK WILL BE NOTED WHEN SENDING.)
D) ------------ - ADJUST LOCAL (J3) R13 FOR 70 M.A.

(NOTE--CABLE CONNECTOR ON THE 11707 WC IS CONSIDERED AS J1.
THE FIRST JACK ON LEFT IS J2)
2.------- - - USING A 260 MULTIMETER ADJUST OUTPUT VOLTAGE OF 11706B POWER SUPPLY FOR 12 VOLT POSITIVE (SY) AND NEGATIVE (SX).

3.------- - - PLACE K-K-T SWITCH IN "T" POSITION.

4.------- - - CHECK 12154B OSC. CARD (POSITION A2A11) OUTPUT ON T.P. WITH HP5212A FREQ. COUNTER - FREQ. SHOULD READ 1780 CYCLES + 5 CYCLES.

5.------- - - REFERRING TO DWG. 508767, 508765 AND USING A TEKTRONIC 561 SCOPE:
   A)--------- - CHECK OPERATION OF BINARY COUNTER AT TEST POINTS TP2 THRU TP18 WHILE KEYING RECEIVE LINE WITH EXTERNAL KEYBOARD.
   B)--------- - CHECK MARKING AND SPACING BUSSES OF CHARACTER DECODER WHILE KEYING RECEIVE LINE WITH EXTERNAL KEYBOARD.
   C)--------- - REFERRING TO DWG. 532132 AND THE FOLLOWING CHART CHECK OPERATION OF THE UNIVERSAL FUNCTION CARDS. (SEE CHART - NEXT PAGE)

6.------- - - ADJUST ANSWER BACK CARD (POSITION A1A13 TOP POT) TO SEND "V" KEY ANSWER BACK LOGIC WITH "SSC" OR "ITS" WITH NO REQUEST.

7. A)--------- - TO SET BLANK IDLING MOD KIT 12509 FOR IDLING - PREPARE TAPE WITH 10 LTRS AND 20 BLANKS. PLACE TAPE IN XTR WITH LTRS OVER PINS. PLACE XTR CONTROL SW. IN RUN POSITION. THROW REQUEST SWITCH TO "AUTO" POSITION.
   SEND ITS - XTR SHOULD SEND LTRS AND DISCONNECT ON FIRST BLANK. XTR SHOULD IDLE BLANKS FOLLOWING THE EOT UNTIL TAPE OUT PIN OPERATES.
   B)-------- - WITH REQUEST SWITCH IN "AUTO" POSITION - INSERT BLANK TAPE IN XTR. XTR SHOULD IDLE BLANKS AS SOON AS THE XTR CONTROL SW. IS THROWN TO THE RUN POSITION.
   C)-------- - REPEAT TEST 7B EXCEPT END TAPE WITH LTRS - XTR SHOULD IDLE UP TO THE FIRST LTRS AND STOP.

8. A)-------- - CHECK "AUTO REQUEST COUNTER" - NO TAPE IN XTR - CONTROL SW. IN FREE POSITION - IF REQUEST LAMP IS LIT THE COUNTER HAS MESSAGE(S) STORED TO CLEAR - DEPRESS THE BREAK SUBT KEY SEVERAL TIMES IF NECESSARY UNTIL REQUEST LAMP IS EXTINGUISHED. THIS CLEARS THE ARC OF ALL MESSAGES.
   B)------- - SEND "FIG-H-LTR" TEN TIMES FROM ASR KEYBOARD. PERFORATOR CONTACTS WILL OPERATE EACH TIME SENT AND STORES A MESSAGE IN THE ARC. THE MAX MSG LAMP SHOULD LITE WHEN THE TENTH EOM IS SENT.
   C)------- - DEPRESS THE BREAK SUBT KEY AND THE MAX MSG LAMP SHOULD BE EXTINGUISHED. DEPRESS THE KEY THREE MORE TIMES. SEND EOM FOUR TIMES AND MAX MSG LAMP SHOULD RE-LITE.
   D)------- - DEPRESS THE BREAK SUBT KEY TEN TIMES AND REQUEST LAMP SHOULD BE EXTINGUISHED TO CLEAR THE ARC. (TEST FOR AUTO SUBTRACTION OF THE ARC WILL BE MADE IN CONJUNCTION WITH OTHER TEST LATER).
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* CODE FOR SECOND CHARACTER OF ITS OR SSC.  
** CODE FOR CORRSP BCST
9.-------- - - PREPARE A TEST TAPE - LTR SP RYRYRYR--RYRYRY CR LF (WORD TEST) FIG H LTR 15 BLANKS (REPEAT SAME TEST ETC.). PLACE TAPE IN XTR. (THE ARC SHOULD NOT HAVE TWO MESSAGES STORED--REQUEST LAMP SHOULD BE LIT WITH THE REQUEST SW IN NORMAL POSN.)

A)-------- - - PUT XTR CONTROL SW IN RUN POSN.
B)-------- - - SEND ITS FROM EXTERNAL KEYBOARD - SEND LAMP SHOULD LITE AND MESSAGE BE SENT.
C)-------- - - SEND LAMP SHOULD BE EXTINGUISHED AFTER THE CHARACTER "BLANK" IS TRANSMITTED. THE REQUEST LAMP SHOULD REMAIN LIT.
D)-------- - - XTR SHOULD IDLE THE BLANKS BETWEEN MESSAGES UP TO THE NEXT MARKING CHARACTER (LTR).
E)-------- - - REPEAT TEST 9B & 9C--REQUEST LAMP SHOULD BE EXTINGUISHED AFTER THE LAST EOT IS SENT.
F)-------- - - XTR DOES NOT IDLE REMAINING BLANKS IN TAPE.
G)-------- - - GIVE MANUAL REQ.- WHILE XTR IS IDLING BLANKS SEND ITS, SHOULD RECEIVE "V" ANSI BACK.

10.-------- - - SINCE THE ARC IS NOW CLEAR - THROW THE REQUEST SW TO AUTO POSITION AND REPEAT TEST 9A, B, C, D, E, & F. DURING TRANSMISSION OF THE LAST TEST RESTORE THE REQUEST SW TO ITS NORMAL POSITION TO EXTINGUISH THE REQUEST LAMP AFTER THE LAST TEST IS SENT. REPEAT THIS TEST SEVERAL TIMES.

11.-------- - - REPEAT TEST 10--WHILE XTR IS SENDING LIFT THE TITE TAPE ARM-XTR SHOULD STOP AND ALARM CONDITION APPEAR. SEND LAMP SHOULD REMAIN LIT. (THROW ALARM SWITCH TO CHECK AUDIBLE ALERT). SEND FIG S TO EXTINGUISH THE SEND LAMP. RELEASE THE ALARM SIGNAL WITH THE ALARM SW.

12.-------- - - REPEAT TEST 10-WHILE XTR IS SENDING - SEND FIG S BL (SLA) FROM EXTERNAL KEYBOARD - XTR SHOULD STOP AND ALARM CONDITION APPEAR SAME AS TEST 11 EXCEPT ONLY THE ALARM LAMP SHOULD BE LIT. RELEASE THE ALARM WITH THE ALARM SW AND RESET THE TAPE. (REQUEST LAMP WILL REMAIN LIT ACCOUNT SW IS IN AUTO POSITION.)

13.-------- - - RESET TAPE & REPEAT TEST 10-WHILE XTR IS SENDING SEND EOM "W" FROM EXTERNAL KEYBOARD-XTR SHOULD STOP-SEND "SP" XTR SHOULD RESTART. CLEAR "SP" BY SENDING EOM (FIG-H-LTR) FROM EXTERNAL KEYBOARD. REPEAT THIS TEST SEVERAL TIMES.

14.-------- - - SEND SSC (WITH ALL SWITCHES NORMAL) FROM EXTERNAL KEYBOARD-ANSWER BACK "V" SHOULD BE RECEIVED IF ASR HAS PAPER.

15. A)-------- - - REPEAT TEST 14-REMOVE PAPER ROLL FROM PRINTER-ALARM LAMP SHOULD LITE AND NO ANSWER BACK SHOULD BE RECEIVED. SEND SP SELECTOR SHOULD NOT GO INTO PRINT MODE. SEND EOM TO CLEAR.

B)-------- - - REPEAT TEST 15A, BUT SEND BEST CALL INSTEAD OF SSC. SELECTOR SHOULD GO INTO PRINT MODE.
C)-------- - - REPEAT TEST 15A, BUT SEND CORRESP BEST CALL INSTEAD OF SSC. SELECTOR SHOULD GO INTO PRINT MODE.
16.-------- - -  REPEAT TEST 14-THROW OUT OF SVC SW-NO ANSWER BACK SHOULD BE RECEIVED AND ALARM LAMP SHOULD BE LIT.
RELEASE OUT OF SVC SW.

17.-------- - -  REPEAT TEST 14-TURN ASR POWER SWITCH OFF-NO ANSWER BACK SHOULD BE RECEIVED AND ALARM LAMP SHOULD BE LIT.
TURN POWER BACK ON

18. A)-------- -  SEND ITS WITH OUT OF SVC SW THROWN-ANSWER BACK SHOULD BE RECEIVED.-RELEASE OUT OF SVC SW
B)-------- -  SEND ITS WITH ASR POWER SWITCH OFF-ANSWER BACK SHOULD BE RECEIVED.-TURN POWER BACK ON

19.-------- - -  REPEAT TEST 14-SEND "SP" AFTER ANSWER BACK IS RECEIVED.
ASR PRINTER SHOULD NOW COPY ALL AFTER SPACE.

20.-------- - -  CONTINUE WITH TEST 19-SEND "FIG" TO PLACE PRINTER IN
UPPER CASE-SEND ITS FROM EXTERNAL KEYBOARD-PRINTER
SHOULD NOT COPY CYCLING CHARACTER-CONTINUE WITH TEST
PRINTER SHOULD HAVE REMAINED IN UPPER CASE.

21. A)-------- -  CONTINUE WITH TEST 19-SEND "LTR" TO PLACE PRINTER IN
LOWER CASE-SEND ITS-PRINTER SHOULD NOT COPY CYCLING
CHARACTERS-CONTINUE WITH TEST-PRINTER SHOULD HAVE REMAINED IN LOWER CASE.
B)-------- -  CONTINUE WITH TEST 19-SEND "FIG" TO PLACE PRINTER IN
UPPER CASE-SEND "SP"--PRINTER SHOULD SHIFT TO LOWER
CASE. DISCONNECT PRINTER BY SENDING EOM (FIG-H-LTR).
PRINTER SHOULD FEED OUT PAPER ON EOM (FIG-H).

22.-------- - -  PREPARE TEN SHORT TEST IN CONTINUOUS TAPE-10 LTR
SP RYRY--RYRY CR LF FIG-H LTR 10 BLANKS ETC. EACH
EOM SHOULD STORE A MESSAGE IN THE ARC SO THAT MAX MSG
LAMP WILL BE LIT AFTER THE TENTH TEST IS PREPARED.
ALL SWITCHES SHOULD BE IN NORMAL POSITIONS. REQUEST
LAMP SHOULD BE LIT.
A)-------- -  PLACE TAPE IN XTR-CONTROL SW TO RUN POSITION-SEND ITS-
FIRST TEST SHOULD BE SENT. AFTER EOT IS SENT XTR WILL
IDLE TO NEXT MESSAGE. REPEAT ITS ETC., FOR TEN MESS-
AGES. AFTER LAST MESSAGE IS SENT THE REQUEST LAMP
WILL BE EXTINGUISHED. THE MAX MSG LAMP SHOULD HAVE
BEEN EXTINGUISHED AFTER THE FIRST ITS WAS SENT.
B)-------- -  USING ONE OF THE TEST UNDER TEST 22A--INITIATE A RE-
QUEST WITH REQUEST SW-SEND ITS-WHILE XTR IS SENDING-
OPEN THE RECC. LEG--XTR SHOULD STOP-REQUEST LAMP
SHOULD BE EXTINGUISHED-SEND LAMP SHOULD BE EXTINGUISH-
ED--ALARm LAMP SHOULD BE LIT. RELEASE ALARM WITH
ALARM SW.

23.-------- - -  USING LONG TEST TAPE-TAKE BIAS AND DISTORTION READING
IN SEND JACK (J5).
BIAS_____ %  DIST'N_____ %

24.-------- - -  REPEAT TEST 18 AND 19 TO CUT IN THE ASR PRINTER.
USING A 7399 BIAS DISTORTION TEST SET-SEND LONG TEST
TO PRINTER AND TAKE RANGE. LOW_____ HIGH _____
(MINIMUM 70 POINTS).
25. A)------- -- THROW 11707 WC LEG SWITCH TO BUST BACK. CAUTION-
THIS POSITION SHOULD NEVER BE USED FOR PLAN 117
OPERATION.
B)------- -- SEND & REC LINES SHOULD BE BUSTED BACK.
C)------- -- SEND & REC LEGS SHOULD BE BUSTED BACK.

26. A)------- -- THROW 11707 WC LEG SWITCH TO LOCAL.
B)------- -- SEND LINE (J5) SHOULD BE CLOSED TO 120V NEG AT R6.
C)------- -- REC LINE SHOULD BE CLOSED TO GROUND. (CHECK AT SWBD
AS NO JACK IS AVAILABLE IN SET FOR THIS CHECK).
D)------- -- SEND & REC LEGS SHOULD BE BUSTED BACK.

27.------- -- CHECK KEYBOARD FUNCTIONS, EOLI, BACK SPACER, ETC., TO
INSURE ALL ARE WORKING CORRECTLY. SEND & REC KEYS
SHOULD BE DISABLED. RECHECK ALL THESE FUNCTIONS AFTER
THE CONSOLE WRAP AROUND IS INSTALLED.

28.------- -- CHECK TYPEBOX TO INSURE PALLETS MATCH KEYBOARD. KEY-
LEVER "S" SHOULD BE BLANK ON UPPER CASE.

29. A)------- -- THE KEYBOARD CAN BE USED TO SEND A CYCLING CHARACTER
AS FOLLOWS:
REPEAT TEST 26. PLACE K-KT-T SWITCH IN K POSITION.
THROW MAINT SWITCH TO MAINT ON POSITION. WITH TAPE-
IN XTR AND SINGLE REQUEST MADE-SEND SSC & SPACE TO
CUT IN PRINTER. SEND ITS-XTR SHOULD SEND AND DIS-
CONNECT AFTER EOT. INITIATE ANOTHER SINGLE REQUEST
AND THE XTR SHOULD IDLE THE REMAINING BLANKS TO END
OF TAPE.
B)------- -- RESTORE LEG SWITCH TO NORMAL POSITION. RESTORE
K-KT-T SWITCH TO T POSITION--REMOVE KNOB AND PLUG
SHAFT HOLE. RESTORE MAINT SW TO NORMAL ON POSITION.

30. A)------- -- CHECK OPERATION OF TIME CLOCK.

ENCLOSE THIS TEST AND DRAWINGS MENTIONED WITH THIS SET.

INITIALS OF EMPLOYEE MAKING TESTS ____________

DATE ____________
**SYSTEM SHOP PROJECT WORK ORDER**

**TO SYSTEM SHOP:** Allentown, PA  □ Dallas, Texas □

**PATRON:** AUTEX (DIVN ITG)  □

**CSO/PROJ:** 30- 77015-B  □

**DATE ISSUED:**  □  □  □  □

**DATE REQUIRED:**  □  □  □  □

**SERVICE DATE:**  □  □  □  □

**AMENDT:**  □  □  □  □

---

### (A) GENERAL REQUIREMENTS SYSTEM

- **WPM:** 75
- **Baud:** □
- **Pallet Layout:** □
- **Style Murray:** □
- **H. Tab Char:** □
- **V. Tab Char:** □
- **Kbd Layout:** □
- **U/S Space:** □
- **Ffo Char:** □
- **Bell Char:** □

**Disadv - Send, Rec, Break Keys:** □

**Apostrophin On Ye J:** □

**Cap Holes - "" "" "" Bell On Ye S (Clipped):** □

---

### (B) SPECIFIC DROP REQUIREMENTS

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<th>(1) CITY LOCATION</th>
<th>(2) DROP NUMBER</th>
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<td>（3）CLASS OF OPERATION</td>
<td>（4）CLASS OF OPERATION</td>
<td>1. Set SW to &quot;T&quot; Posisn On</td>
</tr>
<tr>
<td></td>
<td>LOOP OR AZ</td>
<td>LOOP OR AZ</td>
<td>All Drops Except -</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>AF, BZ, DF, DY. On These</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td>Drops Test In &quot;T&quot; Then</td>
</tr>
<tr>
<td>5</td>
<td>M28 ASR1C</td>
<td>M28 ASR1C</td>
<td>Set To &quot;K&quot;. On All Sets</td>
</tr>
<tr>
<td>6</td>
<td>SELECTOR</td>
<td>SELECTOR</td>
<td>Remove K/WB &amp; Cap Hole.</td>
</tr>
<tr>
<td>7</td>
<td>1289 CABINET</td>
<td>1289 CABINET</td>
<td>2. PTR ON Line All Time.</td>
</tr>
<tr>
<td>8</td>
<td>SSC</td>
<td>SSC</td>
<td>LCD AS Pilled.</td>
</tr>
<tr>
<td>9</td>
<td>IST</td>
<td>IST</td>
<td>KBD To Perf Local Except</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td>WU LABILE Per</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Special Inst.</td>
</tr>
</tbody>
</table>

---

**UNIT CODE:** 040

---

**SHIP TO ADDRESS:**

See Attached Listing Pages 1 Thru 20.

See A&W Clerk Special Inst.

**ROUTING:**

---

**DATE STARTED**

**DATE COMPLETED**

---

**DAILY CHARGES**

**TOTAL**

<table>
<thead>
<tr>
<th>CHARGE LABOR &amp; MATERIAL TO PROJECT</th>
<th>ABW</th>
<th>APP</th>
<th>QC</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>

---

**SS FORM 067(11-73)**
7. MOUNT TWO CORD GRIPS ON RIGHT MOUNTING PLATE IN BASE OF ASR. INSERT A.C. POWER CORD AND SIGNAL CORD THROUGH CORD GRIPS WIRE TO "C" BLOCK AS FOLLOWS:

AC POWER CORD
WHITE TO C40
BLACK TO C39
GREEN TO FRAME GROUND

USE RED SPADE LUGS

SIGNAL CORD
BLACK TO C1
WHITE TO C2
RED TO C6

USE SOLDERLESS LUGS

8. INSTALL EXTERNAL HANDLE TO 9797 WIRE CABINET FOR POWER SWITCH.

9. INSTALL PRINTER AND TRANSMITTER. CONNECT "U", "R" AND "F" CONNECTORS TO TRANSMITTER AND PRINTER.
1. BELL WIRES ARE TO BE ON
   - C-29
   - C-30

2. E.O.L. LAMP AND COPY LIGHT SWITCH ARE TO BE ON "C" BLOCK
   AS FOLLOWS:
   - BLACK C36
   - WHITE C37
   - BLUE C38
   - RED C144

3. STRAP "C" BLOCK AS FOLLOWS: (USE #22 GA SOLID WIRE)
   - 125-31
   - 126-127
   - 128-129
   - 130-149
   - 139-32
   - 140-150 #18 GA SOLID WIRE WHITE
   - 143-146-147-148
   - 4-132-136
   - 5-8-9
   - 10-11-131
   - 13-15
   - 7-12
   - 6-135

4. CHECK ALL STRAPS IN 9797 WIRING CABINET PER SPEC 12498, DWG. 237643
   OR DWG. 241034.

5. MOUNT 9797 WIRING CABINET WITH STUDS PROVIDED AND WIRE TO
   "C" BLOCK PER DWG. 237643

6. WIRE TO "U" CONNECTOR TO "C" BLOCK. SEE BELOW:
MATERIAL REQUIRED FOR M28 ASR

1 - M28 ASR
1 - 9797 WIRING CABINET
1 - 9828 "U" CORD
1 - 182510 POWER CORD
1 - 900643 SIGNAL CORD
1 - 202 RELAY
2 - CORD GRIPS #112
3 - SOLVERLESS TERMINAL LUGS
8 - RED SPADE LUGS
4 - 8/32 R.H.M.S.
4 - 8/32 SHAKEPROOF WASHERS
4 - 8/32 NUTS

NOTE 1:

WHEN PAPER WINDER IS REQUIRED ADD A 6' 3 CONDUCTOR #18 GA CABLE WITH CONNECTOR 234825-902290 (TWIST LOCK FEMALE) INSERT CABLE THROUGH CORD GRIP AND WIRE AS FOLLOWS:

CONNECTOR   COLOR   "C" BLOCK
-------------    -------    --------
|               | WHITE     | C-40  |
|               | GREEN     |       |
|               | BLACK     | C-37  |
M-28 ASR SET

TO ASR "C" BLOCKS

NOTE: MAJOR SPECIFICATIONS H-706 A REFERENCE SHEET CB
1. AS R FOR CONTROLS (HW-C-176) ARE INTERCOLOR MATCHED AS SHOWN SPEC H-706
2. ALL WIRING COUPLED WITH THE CONTROL PANEL 176 AND TERMINATED AS SHOWN SPEC H-706
3. ALL WIRING OF THE POWER SUPPLY 1706-0 REFERENCE TO SPEC H-706
4. TERMINALS OF THE POWER SUPPLY 1706-0 ARE REFERENCE TO SPEC H-706
5. THIS CABLE IS TO BE PLACED IN THE POWER CABLE COMPONENT IF NOT INSTALLATION IF NOT INSTALLED CONFORM SPEC 1706-0
7. THE CABLE IS TO BE PLACED IN THE POWER CABLE COMPONENT IF NOT INSTALLED CONFORM SPEC 1706-0
8. THE CABLE IS TO BE PLACED IN THE POWER CABLE COMPONENT IF NOT INSTALLED CONFORM SPEC 1706-0
9. ALL TERMINALS SHOWN (WIRE COLORS) ARE SPARE WIRE TIES TIED BACK IN CABLE TO WIRE A 4 AND 6 OF CONTROL PANEL 110S CABLE ARE NOT USED. THEY SHALL BE TAIRED AND TIED BACK IN THIS CABLE.
10. FOR TYPE II INSTALLATIONS AS R FOR INSTALLATION OF SPEC H-706, PARAGRAPHS 1-4.

REFERENCE WIRING DRAWINGS:
- CONTROL PANEL 1706 - HWS 50260
- POWER SUPPLY 1706-0 - HWS 50430
- AS R FOR INSTALLATION OF SPEC H-706, PARAGRAPHS 1-4.

NOTE 5:

NOTE 2:

NOTE 6:

NOTE 3:

NOTE 4:

NOTE 1:

NOTE 8:

NOTE 7:

NOTE 9:

NOTE 10:

NOTE 11:

NOTE 12: