830- AND 2830-TYPE
TELEPHONE SETS
(4-WIRE RELAY CONNECTIONS)

1. GENERAL

1.001 This Addendum supplements Section
503-701-101. Place this sheet ahead
of Page 1 of this section.

1.002 This Addendum is issued to show the
P-90D145 wiring board used in the
modification of the 830- and 2830-Type
Telephone Sets for 4-wire operation.

6. OPTIONAL FEATURES

MODIFICATION OF 10 OR 11 BUTTON TELEPHONES FOR 4-WIRE OPERATION

6.001 The P-90D145 wiring board enables one
or more of the pickup buttons on a
10- or 11-button telephone set to be
utilized as a 4-wire circuit.

INSTALLATION

6.002 The 830- and 2830-Type Telephone Sets
are to be modified as shown in Ex-
hibits 2 and 3. The P-90D145 wiring board is
to be mounted inside the telephone set and
wiring should be spliced as required. Spare
leads in the 50 pair Mtg. Cord may be used
for connecting to the 4-wire circuit equip-
ment if available. A D-180454 Kit-of-Parts
may be used if spare leads are not available.
(See Section 518-230-101).

6.003 Exhibit 1 shows the wiring schematic
for the P-90D145 wiring board. The
relay is mounted on a wiring board which
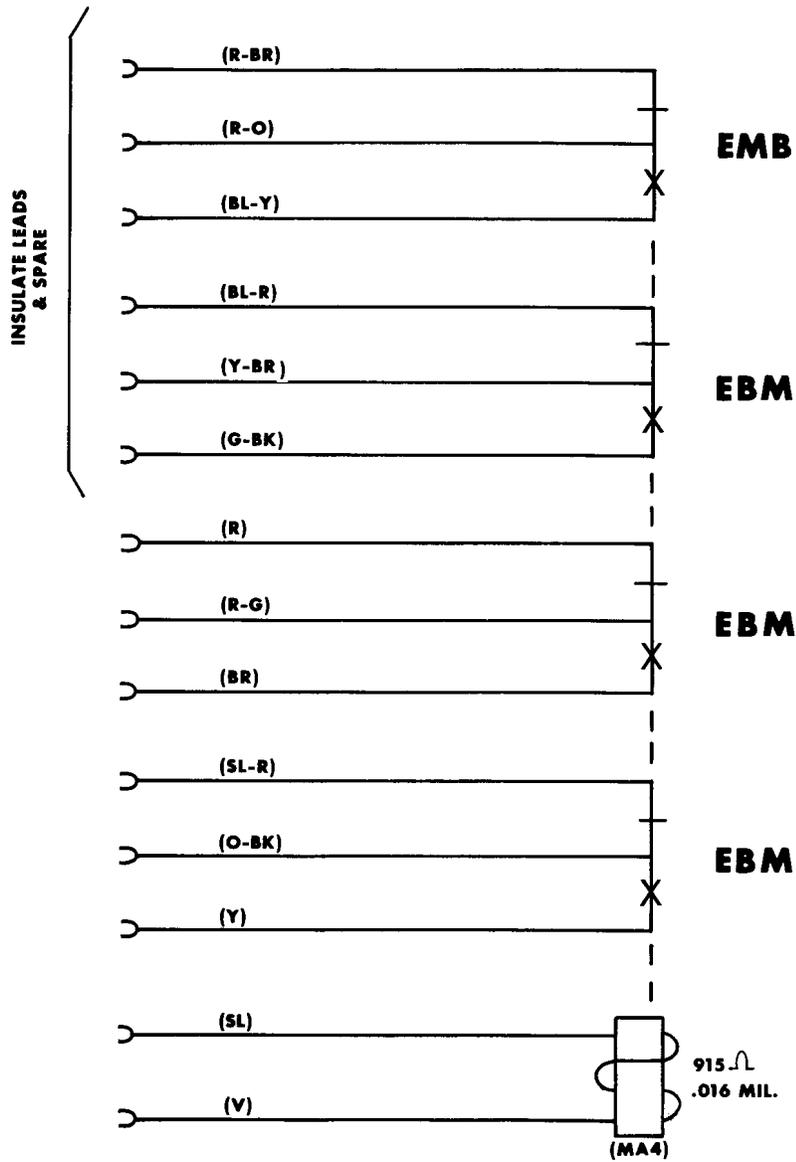contains holes for mounting in the set.

ORDERING INFORMATION

6.004 The following material is required
for each telephone set to be modified,
and may be ordered via the Order Invoice
Plan.
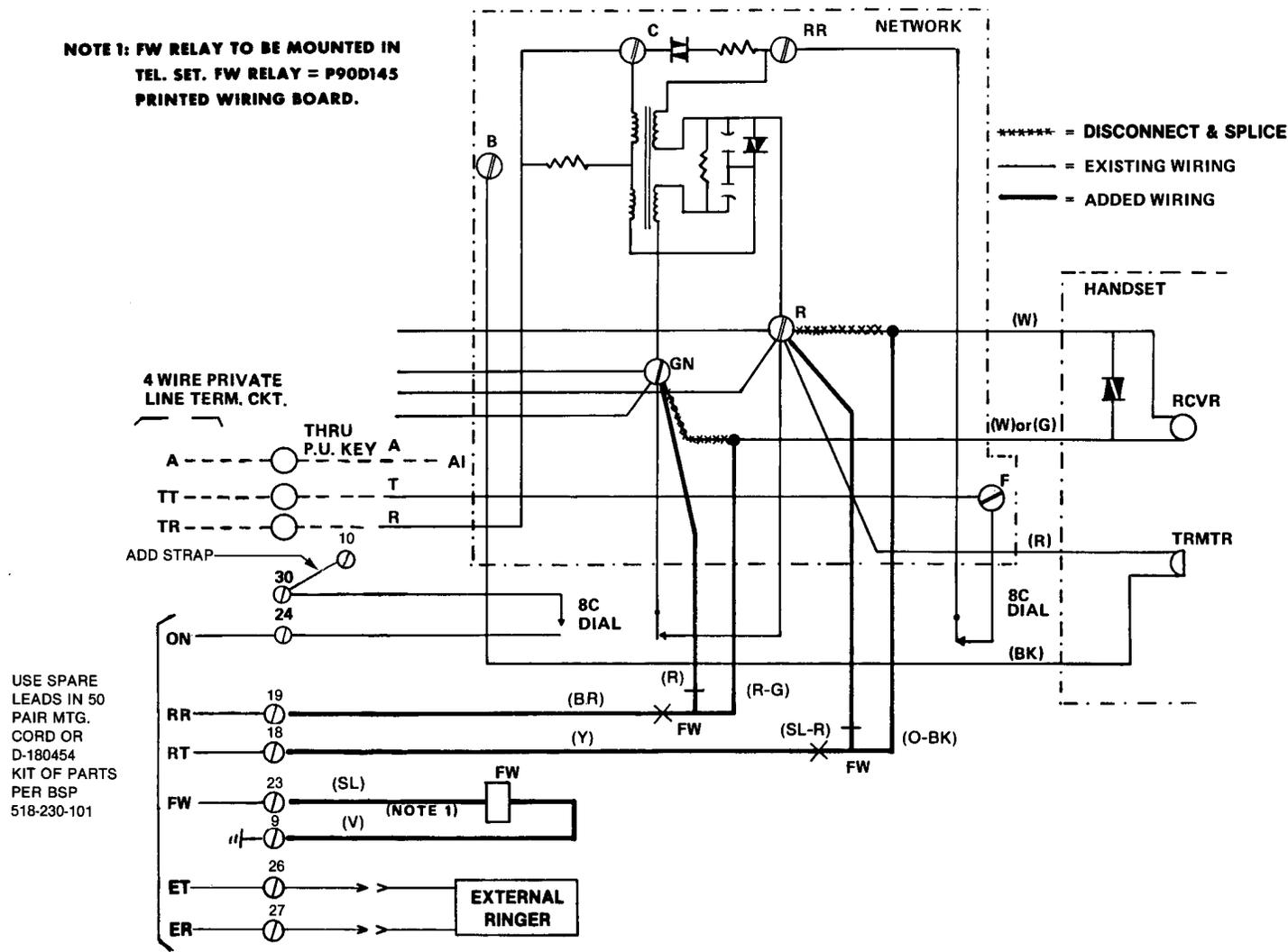
(Qua.) - P-90D145 Printed Wiring Board

NOTE: When modifying an 830-Type set,
the 8RA Dial must be replaced
with an 8CA Dial.

EXHIBIT 1

INSULATE LEADS & SPARE

(R-BR)

(R-O) **EMB**

(BL-Y)

(BL-R)

(Y-BR) **EBM**

(G-BK)

(R)

(R-G) **EBM**

(BR)

(SL-R)

(O-BK) **EBM**

(Y)

(SL)

(V) 915 Ω .016 MIL.

(MA4)

P-90D145 PRINTED WIRING BOARD

NOTE 1: FW RELAY TO BE MOUNTED IN TEL. SET. FW RELAY = P90D145 PRINTED WIRING BOARD.

****** = DISCONNECT & SPLICE

———— = EXISTING WIRING

━━━━ = ADDED WIRING

NETWORK

HANDSET

RCVR

TRMTR

4 WIRE PRIVATE LINE TERM. CKT.

THRU P.U. KEY

ADD STRAP

USE SPARE LEADS IN 50 PAIR MTG. CORD OR D-180454 KIT OF PARTS PER BSP 518-230-101

8C DIAL

8C DIAL

FW (NOTE 1)

EXTERNAL RINGER

ADDENDUM 503-701-101SW

EXHIBIT 3

MODIFICATION OF 2830-TYPE TELEPHONE SETS
FOR FOUR-WIRE OPERATION

NOTE 1: FW RELAY TO BE MOUNTED IN
TEL. SET. FW RELAY = P90D145
PRINTED WIRING BOARD.

NETWORK

= DISCONNECT & SPLICE
= EXISTING WIRING
= ADDED WIRING

HANDSET

4 WIRE
PRIVATE LINE
TERM. CKT

THRU
P.U. KEY

USE SPARE
LEADS IN 50
PAIR MTG.
CORD OR
D-180454
KIT OF PARTS
PER BSP
518-230-101

EXTERNAL
RINGER