

SERVICE OBSERVING ARRANGEMENTS

1. GENERAL

1.01 This section is issued to provide descriptive information concerning the installation of service observing arrangements from key telephone instruments.

1.02 This section is reissued to update information to include Figure 7 for connections to HORIZON[®] stations.

1.03 This section shows the circuit diagram and connections for the following features:

- (a) Station-Busy Lamp Control Circuit (USOC codes QK7 & QK9).
- (b) Position Monitor and Line Usage (USOC code QK8).
- (c) Position Monitor Only (USOC code QK4).
- (d) Line Monitor Only (USOC code QK1).
- (e) Line Monitor and Line Usage (USOC code QK6).

2. SERVICE OBSERVING ARRANGEMENTS

2.01 The Service Observing Equipment section of the General Exchange Tariff offers four service observing arrangements. These arrangements will be authorized on the Service Order as follows:

- (a) Position Observing of a Switchboard(s), Order Turret(s), and/or Call Distributor(s) with Observe Only Capability at the Key Instrumentality:

QK4 - Service Observing Equipment
QK7 - Lamp Supervision

- (b) Line Observing With Observe Only Capability at the Key Instrumentality:

QK1 - Service Observing Equipment

- (c) Position Observing of a Key Telephone Instrument with Observe Capability and Normal Key Telephone Instrument Operation at the Key Instrumentality:

QK8 - Service Observing Equipment
QK9 - Lamp Supervision

- (d) Line Observing with Observe Capability and Normal Key Telephone Operation at the Key Instrumentality:

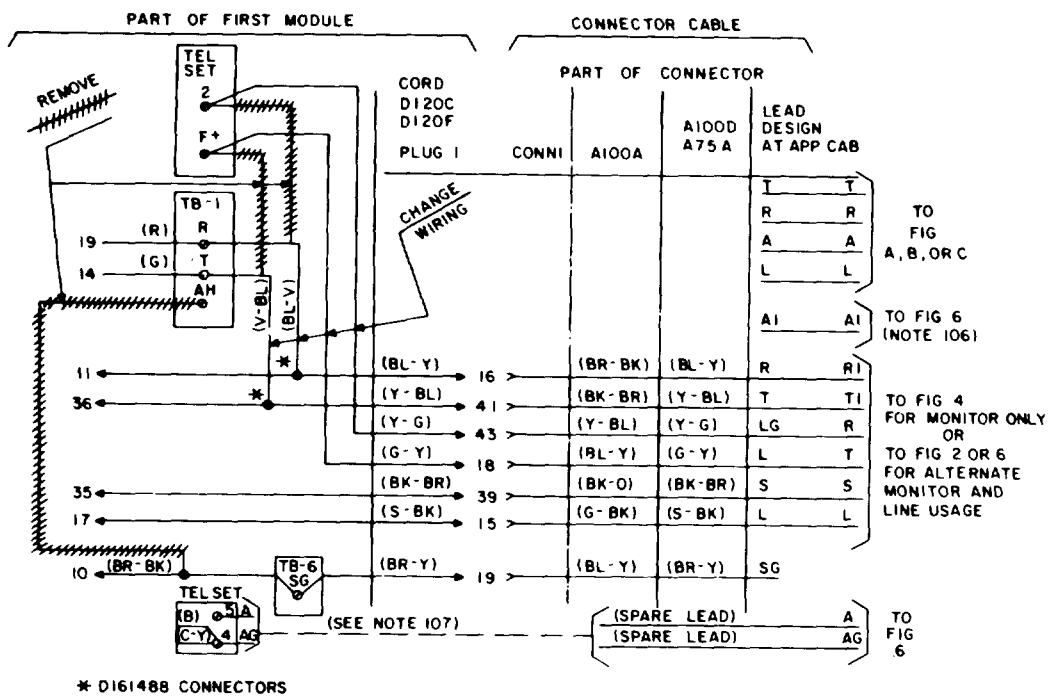
QK6 - Service Observing Equipment

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FIG 1

PUSH BUTTON OPERATION
630, 631, 636 & 637 (ALL PURPOSE)
TEL SETS WITH LINE OR POSITION
MONITORING

SEE B S P 502-610-406 FOR CONNECTIONS



CIRCUIT NOTES

101

ALL PURPOSE TEL SET (630, 631, 636, 637 TYPE)		
FEATURE	FIGURE	NOTES
STATION-BUSY LAMP CONTROL CKT	5, C	111
POSITION MONITOR AND LINE USAGE	B, 1, 1A, 1B, 2, 4	103
POSITION MONITOR ONLY	B, 1, 1A, 1B, 4	103
LINE MONITOR ONLY	B, 1, 1A, 1B, 4	103
LINE MONITOR AND LINE USAGE	A, 1, 1A, 1B, 4, 6	102 103
POSITION MONITOR WITH ALTERNATE USE FOR OBSERVER TALKING	B, 1, 1A, 1B, 3, 4, 6	102 103

CONCENTRATOR TEL SET (634, 635, 638, 639 TYPE)		
FEATURE	FIGURE	NOTES
STATION-BUSY LAMP CONTROL CKT	5, C	111
POSITION MONITOR ONLY	B, 4, 6	102 103
POSITION MONITOR AND ALTERNATE USE FOR OBSERVER TALKING	B, 3, 4, 6	102 103
LINE OR POSITION MONITOR AND LINE USAGE	4, 6	102 103

102 CONVERT THE 5TH KEY ON THE FIRST MODULE TO NON-LOCKING FIRST OPERATION OF THIS KEY WILL PLACE SET IN MONITORING MODE SECOND OPERATION WILL RESTORE TO NORMAL

103 POSITIVE GROUND POWER SUPPLY MUST BE USED WITH THIS DRAWING TO REDUCE NOISE

104 CONVERT KEY TO NON-LOCKING SIGNAL KEY

105 THIS KEY MUST BE DEPRESSED WHILE TALKING USE ANY SPARE KEY

106 MAKE NORMAL CONN OF AI LEAD WHEN SPEAKERPHONE IS USED DO NOT CONNECT AI TO FIG 6

107 REMOVE (BR) & (O-Y) LEADS FROM TERM 5 (630-631 CALL DIRECTOR) & PLACE ON TERM 4 FOR SPEAKERPHONE OPERATION ONLY

108 MOVE "AG" LEAD FROM SPEAKERPHONE TO SPARE TERMINAL IN TEL SET WIRE "AG" & "A" LEADS TO FIG 6

110 SET AMPLIFIER "GAIN" FULLY CLOCKWISE TO 10 ON THE SCALE SET "OUTPUT" TO SATISFY LISTENER'S PREFERENCE

111 WHEN FIG 5 IS USED THE "AI" GROUND SHOWN REPLACES THE NORMALLY PROVIDED "AI" GROUND

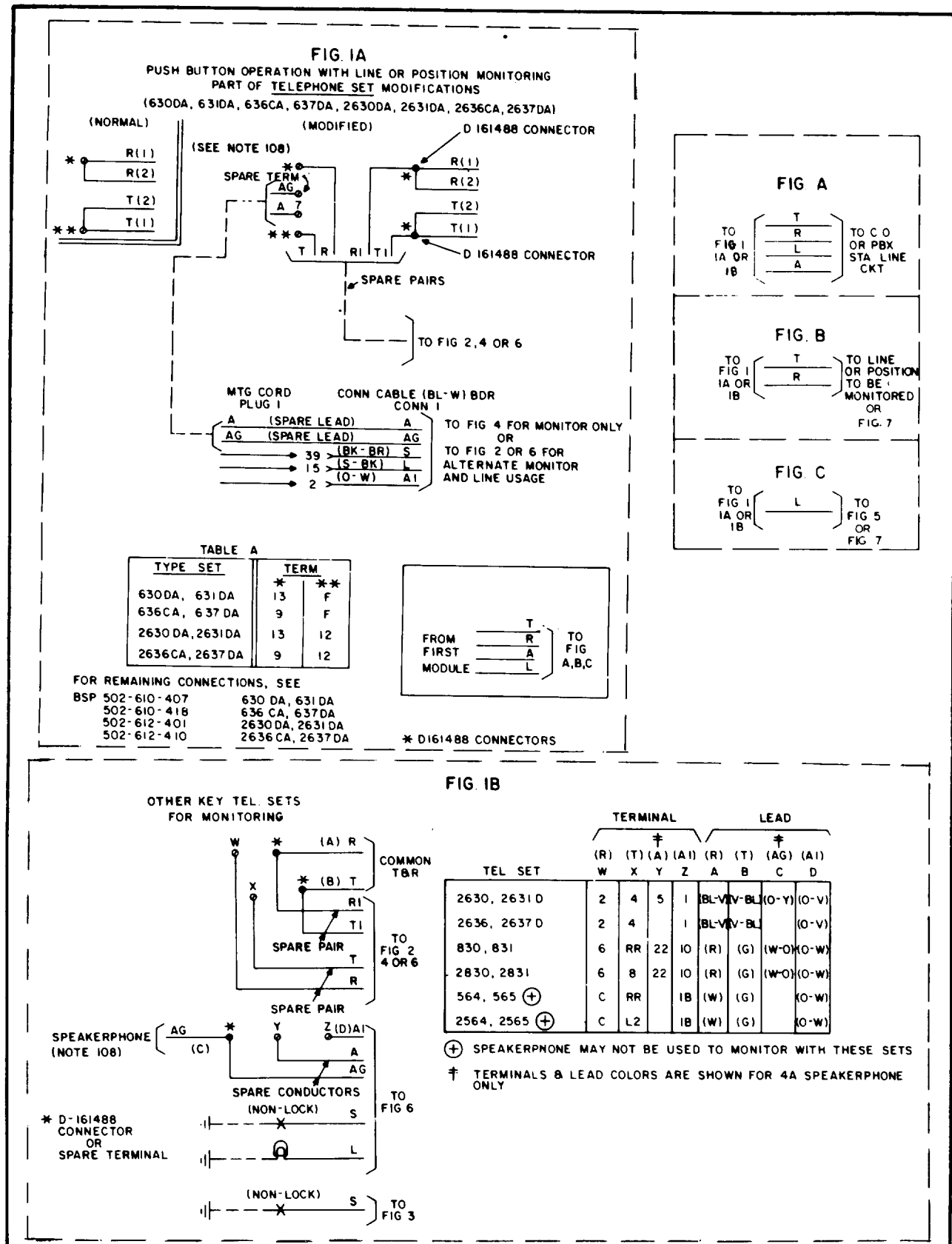


FIG 2
AMPLIFIER CONTROL CKT
(ONE PER MONITORING POSITION)

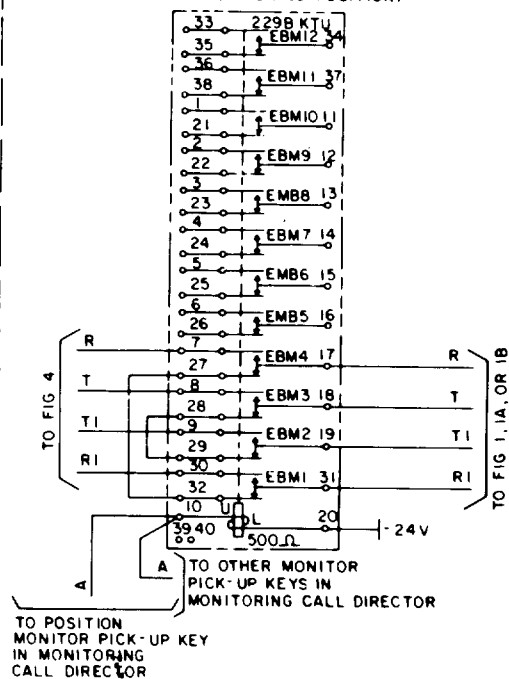


FIG 3

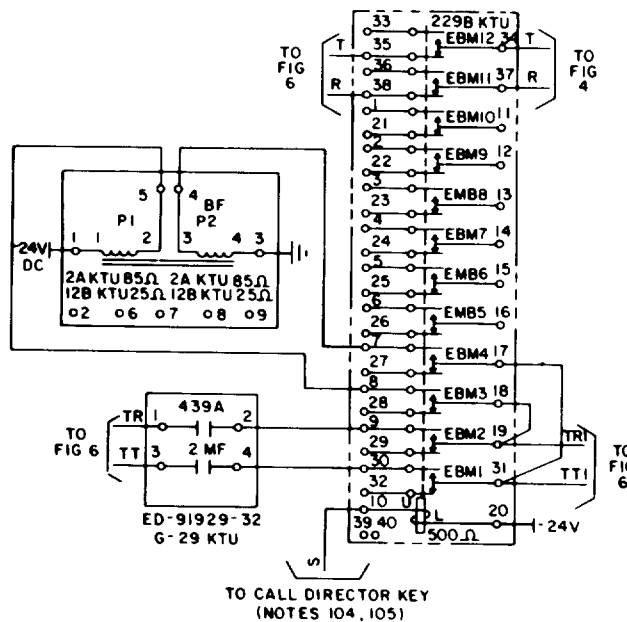


FIG 4

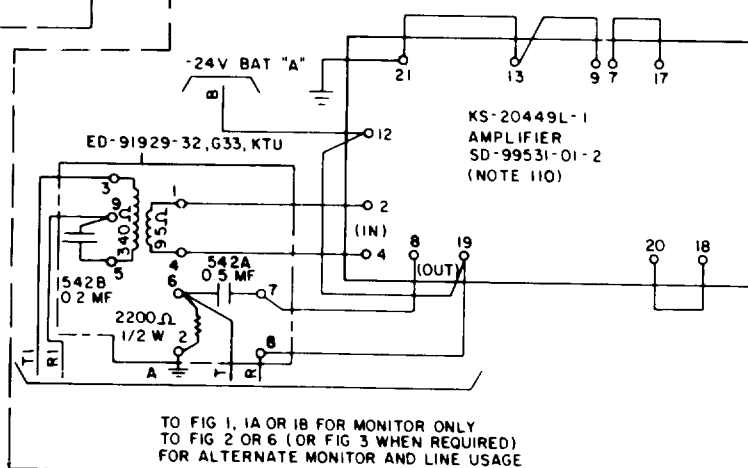


FIG 5
STATION BUSY LAMP CONTROL CKT
(ONE PER POSITION TO BE MONITORED)

