

SHEET INDEX (INITIATED ON ISSUE 19D)

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SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS	ED-31606-01 J33017AY
KEYSHEETS SXS NO. 1 SXS NO. 350A	SD-31359-01 SD-31364-01
BSP MAINTENANCE	226-801-500 227-186-500 227-305-500

DWG ISS	CD ISSUE	DWG ISS	CD ISSUE	DWG ISS	CD ISSUE
1	1	2D	2D	3D	APP ID
4D	3D	5D	APP ID	6D	APP ID
7B	4B	8D	5D	9D	APP ID
10D	APP ID	11D	5D	12D	APP ID
13D	APP ID	14D	6D	15D	7D
16D	APP ID	17D	8D	18B	8D
					APP ID
DWG ISS	CD ISSUE	DATE ISSUED	DRAWN	APPRO	
19D	9D	1-16-57	LME	A.S.	
20D	9D	4-23-57	V.S.	A.S.	
	APP ID		F.G.S.	A.C.P.	
21D	9D	12-6-57	N.C.	R.S.	
	APP ID		CH.D.	R.C.D.	
22D	9D	1-3-62	R.D.	M.F.C.	
	APP ID			F.B.B.	
23B	9D	12-3-62	ARIW	EA	
	APP ID		A.L.Z.	M.K.D.	
			CHD	R.H.	
				E.A.	
24D	10D	8-3-64	FF	N.P.S.	
			AFR	R.J.J.	
				GM	
25D	10D	2-3-66	REH	N.P.S.	
	APP ID		JTF	R.W.	
				GM	
26D	10D	4-21-72	EC	RAF	
	APP ID		SAK	LBC	
			GK	SEB	

- SHEET INDEX NOTES
- WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
 - THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
 - THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
 - SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
 - THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

REPLACING SD-30284-01 & SD-31207-01 EXCEPT FOR ADDITIONS

SD-31606-01 1D99

AT&T CO STANDARD
A&M ONLY FOR 350A

STEP BY STEP SYSTEMS
NO. 1 OR 350 A
30,60 AND 120 I.P.M. INTERRUPTER
AND INTERRUPTER ALARM CIRCUITS

(60 I.P.M. FILTER) (120 I.P.M. FILTER) (120 I.P.M. INT)
(30 I.P.M. INT) (60 I.P.M. INT) (60 & 120 I.P.M. TRNS & ALM)

BELL TELEPHONE LABORATORIES
INCORPORATED

ISSUE 26D

SD-31606-01-1
6 SHEETS

75 PRINTED IN U.S.A.

TABLE A
CIRCUITS REQUIRING 60 I.P.M. INTERRUPTIONS WITH 48V. ALARM FEATURE ("W" WIRING) (FOR 60 I.P.M. BR3 LEADS SEE TABLE C)

REVERTING CALL SELECTOR CKT., OR COIN CONTROL SELECTOR CKT. OR SWITCH TROUBLE ALARM CKT. FOR TRUNK & MISC. SHELVES ASSOCIATED WITH THESE CKTS., OR COIN CONTROL CONNECTOR
 ONE LEAD PER FRAME EQUIPPED WITH SUCH CKTS.
 CHECKING TRUNK AND CHECKING FIRST SELECTOR CKT.
 ONE LEAD PER OFFICE
 *BUSY BACK CKT. FOR USE WITH CALL WIRELESS TRUNKS
 ONE LEAD PER OFFICE
 COIN BOX TRUNK ALARM CKT. (ARM ONLY)
 ONE LEAD PER CKT.
 INTERRUPTER AND ALARM CKT. FOR PREPAY COIN TRUNKS
 2 LEADS PER CKT. (SEE NOTES 114 & 115)
 AC POWER ALARM CKT. (SUPERIMPOSED RINGING)
 ONE LEAD PER CKT. (SEE NOTE 110)
 INTERRUPTER AND ALARM CKT. FOR DELAY INTERVAL
 ONE LEAD PER CKT.
 *VACANT SELECTOR LEVEL TONE CKT.
 ONE LEAD PER CKT.
 SUBSCRIBER RECORDING COMPLETING TRUNK CKT.
 ONE LEAD PER OFFICE
 OUTGOING TRUNK TO SPECIAL SERVICE OPERATOR - RING BACK
 ONE LEAD PER OFFICE
 *A B TOLL TRANSMISSION SELECTOR - REPEATED DIALING TRAIN (LINE BUSY FLASH)
 ONE LEAD PER 3 CKTS.
 NO SUCH NUMBER TONE SUPPLY CKT.
 TWO LEADS PER CKT.
 INTERTOLL DIALING TIMING CIRCUIT
 ONE LEAD PER CKT.
 TOLL SWITCHBOARD NO. 1 TONE JACK CKT.
 ONE LEAD PER CKT.
 TEST CKT. FOR TESTING COIN RELAYS
 ONE LEAD PER OFFICE
 AUXILIARY SIGNAL CKT. FOR PLUGGING UP CKT. PANEL
 ONE LEAD PER OFFICE
 OPERATING ROOM CALLING IN SIGNAL
 ONE LEAD PER OFFICE
 AUXILIARY TRK. COIN CONTROL
 ONE LEAD PER 6 CKTS.
 TRANSMISSION TEST LINE
 ONE LEAD PER 10 CKTS.
 AUTOMATIC TICKETING TRUNK (MFR. DISC.)
 ONE LEAD PER OFFICE
 AUTOMATIC TICKETING TRUNK TEST CKT.
 ONE LEAD PER CKT.
 AUTOMATIC TICKETING BENDER
 ONE LEAD PER 10 CKTS.
 RECORDING COMPLETING TRUNK - COIN & NON COIN
 CX SIGNALING
 ONE LEAD PER 5 CKTS.
 VACANT CODE TRUNK CKT.
 ONE LEAD PER OFFICE
 SELECTOR REPEATER
 ONE LEAD PER OFFICE
 CABLE TEST DESK NO. 3
 AUXILIARY SIGNAL CKT.
 TEL. & M.D.F., LOUD SPEAKER CKT. WITH COMMON OR INDIVIDUAL
 TRANSMITTERS
 ONE LEAD ONLY FOR ALL SUCH CIRCUITS ON SAME FLOOR
 (SEE NOTE 202)
 LOCAL TEST DESK NO. 14
 AUXILIARY SIGNAL CKT.
 PRIMARY AND SECONDARY TEST CKT.
 LINE INSULATION BREAKDOWN CKT.
 HOWLER CKT.
 TEL. & M.D.F., LOUD SPEAKER CKT. WITH COMMON OR INDIVIDUAL
 TRANSMITTERS
 ONE LEAD ONLY FOR ALL SUCH CKTS. ON SAME FLOOR
 (SEE NOTE 202)
 INFORMATION DESK NO. 1, 2, 17-D OR 17-MC FLASHING CIRCUIT
 ONE LEAD PER INFORMATION DESK
 KEY CABINET NO. 20 TRANSFER AND AUX. SIG. CKT.
 ONE LEAD PER CABINET
 INFORMATION DESK NO. 3 AND NO. 4
 ALLOTTER CIRCUIT
 ONE LEAD PER CIRCUIT
 START CIRCUIT
 ONE LEAD PER CIRCUIT
 SEQUENCE STORING TIMING CIRCUIT
 ONE LEAD PER OFFICE
 REPAIR SERVICE DESK NO. 2 - TEST SUPERVISOR'S PRIVATE DESK
 TRANSFER AND MAKE BUSY CIRCUIT
 ONE LEAD PER OFFICE
 702-A P.B.X. AUXILIARY LINE CIRCUIT
 ONE LEAD PER 10 CIRCUITS
 PERMANENT SIGNAL TEST CIRCUIT
 ONE LEAD PER CIRCUIT
 PERMANENT SIGNAL HOLDING TRK.
 ONE LEAD PER OFFICE
 TEST LINE CIRCUIT FOR TESTING RINGING AND CONTINUITY
 ONE LEAD PER OFFICE
 702-A P.B.X. INTERRUPTER CIRCUIT FOR FLASHING TRUNK LAMPS
 ONE LEAD PER CIRCUIT
 702-A P.B.X. AUDIBLE AND FLASHING RECALL CIRCUIT
 ONE LEAD PER CIRCUIT
 TONE JACK CIRCUIT - SWITCHBOARD NO. 14D, 14D, OR 15C
 ONE LEAD PER CIRCUIT
 TOLL SWITCHBOARD NO. 3, 3C OR 3C TONE JACK CIRCUIT
 ONE LEAD PER CIRCUIT
 INTERTOLL DIALING - TOLL SWITCH TRUNK - TO REP. DIAL TOLL TRAIN
 ONE LEAD PER OFFICE
 NJ MOBILE RADIO TELEPHONE SYSTEM - COMMON PULSE CIRCUIT
 ONE LEAD PER SYSTEM
 ALL CKTS. WITH CONNECTING LEAD DESIG. "60A"

*SEE NOTE 106

TABLE B
CIRCUITS REQUIRING 120 I.P.M. INTERRUPTIONS WITH 48V. ALARM FEATURE ("W" WIRING) (FOR 120 I.P.M. BR3 LEADS SEE TABLE C)

INCOMING TRUNK TO TOLL INCOMING SELECTOR
 ONE LEAD PER 5 CKTS.
 AUXILIARY TRUNK CKT. BETWEEN TOLL SELECTOR MULTIPLE & INTERCEPTING TRUNK
 FOR DELAYING CUT THRU
 ONE LEAD PER 5 CKTS.
 *OUTGOING TRUNK CKT. FROM "A" SWITCHBOARD NO. 15C, TO LOCAL SELECTOR, TEST
 DISTRIBUTOR, SELECTOR FOR COMPLETING INTERCEPTING CALLS, OUTGOING REPEATER,
 INCOMING REPEATER OR AB TOLL TRANSMISSION SELECTOR.
 ONE LEAD PER MAX. 50 CKTS.
 TOLL TEST BOARD 17B OR 18B
 DC & MF KEY SET CKT.
 ONE LEAD PER 5 CKTS.
 CABLE TEST DESK NO. 3 & LOCAL TEST DESK NO. 14, TEL. & M.D.F., LOUD SPEAKER
 CKT. - INDIVIDUAL TRANSMITTERS
 ONE LEAD PER DESK PER FLOOR (SEE NOTE 202)
 ANSWER TIME RECORDER
 ONE LEAD PER 10 CKTS.
 CHECKING TRUNK AND CHECKING FIRST SELECTOR CKT.
 ONE LEAD PER OFFICE
 *OPERATOR RECORDING COMPLETING TRUNK CKT.
 ONE LEAD PER OFFICE
 RECORDING COMPLETING TRUNK - COIN AND NON COIN - CX SIG.
 ONE LEAD PER 5 CKTS.
 TEST LINE CKT. FROM CONNECTOR MULTIPLE
 ONE LEAD PER OFFICE
 *SWITCH TROUBLE ALARM CKT. FOR "B" SWITCHBOARD
 ONE LEAD PER OFFICE
 RINGING INTERRUPTER AND ALARM CKT. FOR 8 PARTY SEMI-SELECTIVE RINGING
 ONE LEAD PER OFFICE
 RINGING INTERRUPTER AND ALARM CIRCUIT FOR 10 PARTY TERMINAL PER LINE CODE
 RINGING
 ONE LEAD PER OFFICE
 RINGING INTERRUPTER AND ALARM CIRCUIT FOR 10 PARTY TERMINAL PER STATION
 CODE RINGING
 ONE LEAD PER OFFICE
 COMMON TIMING CIRCUIT
 ONE LEAD PER CIRCUIT
 *"B" SWITCHBOARD POSITION CIRCUIT
 ONE LEAD PER OFFICE
 *"B" SWITCHBOARD LINK CIRCUIT
 ONE LEAD PER FRAME
 DIAL TESTER CIRCUIT USING 51 TYPE DIAL TESTER
 ONE LEAD PER GROUP OF CIRCUITS
 ANNOUNCEMENT DESK NO. 1 DESK CIRCUIT
 ONE LEAD PER DESK
 *A" SWITCHBOARD ODD TESTING CIRCUIT
 ONE LEAD PER CIRCUIT
 *KEY PULSING COMMON TIMING AND ALARM CIRCUIT
 TWO LEADS PER OFFICE
 *AB TOLL PRECEDING SELECTOR CIRCUIT OR SWITCH TROUBLE ALARM CIRCUIT FOR
 SELECTOR SHELVES
 ONE LEAD PER FRAME OR BAY
 *KEY PULSING "A" SWITCHBOARD OUTGOING TRUNK CIRCUIT FOR COMPLETING INTER-
 CEPTED CALLS
 ONE LEAD PER 50 TRUNKS
 *CENTRAL "A" SWITCHBOARD INCOMING TRUNK CIRCUIT FOR COMPLETING INTERCEPTED
 CALLS
 ONE LEAD PER 50 TRUNKS
 A C POWER ALARM CIRCUIT (AC - DC RINGING)
 ONE LEAD PER CIRCUIT (SEE NOTE 110)
 TOLL SWITCHBOARD NO. 3, 3B OR 3C - SWITCHBOARD NO. 11 - R.D., INTERTOLL TRK.
 CIRCUIT
 ONE LEAD PER BAY
 INTERTOLL DIALING - TOLL SWITCH TRUNK - TO REP. DIAL T. - TRAIN
 ONE LEAD PER OFFICE
 PERMANENT SIGNAL HOLDING TRUNK
 ONE LEAD PER OFFICE
 SERVICE OBSERVING CIRCUIT (MULTI-LINES-SPEED OF ANSWER)
 ONE PER 6 CKTS.
 ALL CIRCUITS WITH CONNECTING LEAD DESIG. "120A"
 MISC TONE AND TONE ALARM CKTS. ONE PER 3 CKTS.
 *SEE NOTE 106

TABLE C
CIRCUITS REQUIRING 120 I.P.M. INTERRUPTIONS WITHOUT ALARM FEATURE (OMIT RES. LAMPS (D) OF FIG. 3 OR 11)

"A" SWITCHBOARD POSITION CIRCUIT
 ONE LEAD PER POSITION
 "A" SWITCHBOARD AUDIBLE AND FLASHING RECALL CIRCUIT
 ONE LEAD PER POSITION
 KEY PULSING "A" SWITCHBOARD
 KEY SET CIRCUIT
 TWO LEADS PER OFFICE, ONE FOR ODD, ONE FOR EVEN
 POSITIONS
 KEY MONITORING CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3 - TRUNK CIRCUIT - OUTGOING TO TEMPORARY OPERATING
 POSITION
 ONE LEAD PER BAY
 MAJOR AUDIBLE ALARM CIRCUIT
 ONE LEAD PER OFFICE
 ALL CIRCUITS WITH CONNECTING LEAD DESIG. "120C" OR "120D"

TABLE D
CIRCUITS REQUIRING 30 I.P.M. INTERRUPTIONS WITH FILTER PER FIG. 7 AND 48V. ALARM FEATURE ("W" WIRING)

*SWITCH TROUBLE ALARM CIRCUIT FOR CONNECTORS
 ONE LEAD PER FRAME EQUIPPED WITH LOOP DIALING TOLL OR
 COMBINATION CONNECTORS
 *OPERATOR'S TRAINING EQUIPMENT NO. 2B - SIGNAL CORD CIRCUIT - BUSY SIGNAL
 CIRCUIT
 ONE LEAD PER OFFICE
 COMMON SYSTEMS - INCOMING TRUNK REGISTER AND CONNECTOR CIRCUIT.
 ONE LEAD PER PERSONAL SIGNALING SYSTEM
 ALL CIRCUITS WITH CONNECTING LEAD DESIG. "60E" OR "60F"
 *SEE NOTE 106

TABLE E
CIRCUITS REQUIRING 120 I.P.M. INTERRUPTIONS WITH FILTER PER FIG. 7 AND 48V. ALARM FEATURE ("W" WIRING)

*SWITCH TROUBLE ALARM CIRCUIT FOR SELECTOR SHELF CIRCUITS
 *LOOP DIALING TOLL TRANSMISSION SELECTOR CIRCUIT
 *AB TOLL TRANSMISSION SELECTOR CIRCUIT - LOOP DIALING TRAIN
 *TOLL INTERMEDIATE SELECTOR CIRCUIT
 *SELECTOR CIRCUIT FOR COMPLETING INTERCEPTED CALLS
 *AB TOLL TRANSMISSION SELECTOR CIRCUIT - REPEATED DIALING TRAIN - (ALL
 TRUNKS BUSY FLASH)
 ONE LEAD FOR 80 OR LESS SELECTORS ON THE SAME FRAME OR BAY
 *OPERATOR'S TRAINING EQUIPMENT NO. 2B - SIGNAL CORD CIRCUIT - REORDER SIGNAL
 CIRCUIT
 ONE LEAD PER OFFICE
 *DISTRIBUTOR CIRCUIT FOR VERIFICATION SERVICE OR SWITCH TROUBLE ALARM FOR
 MISC. CIRCUITS.
 ONE LEAD PER FRAME
 COMMON SYSTEMS - INCOMING TRUNK REGISTER AND CONNECTOR CIRCUIT.
 ONE LEAD PER PERSONAL SIGNALING SYSTEM
 COMMON SYSTEMS - REGISTER CHECK AND CONNECTOR CONTROL CIRCUIT.
 ONE LEAD PER PERSONAL SIGNALING SYSTEM
 NJ MOBILE RADIO TELEPHONE SYSTEM-DUPL. SW AND TEST ACCESS CIRCUIT
 ONE LEAD PER SYSTEM
 SMALL NJ MOBILE RADIO TELEPHONE SYSTEM-LINE CIRCUIT
 ONE LEAD PER SYSTEM
 ALL CIRCUITS WITH CONNECTING LEAD DESIG. "120E" OR "120F"
 *SEE NOTE 106.

TABLE F
CIRCUITS REQUIRING 60 I.P.M. INTERRUPTIONS WITHOUT ALARM FEATURE (OMIT RES. LAMPS (D) OF FIG. 3 OR 11)

COMMON TIMING CIRCUIT
 TWO LEADS PER CIRCUIT
 TOLL SWITCHBOARD NO. 3 - SWITCHBOARD NO. 11 - R.D., TOLL LINE MULT. CKT.
 ONE LEAD PER BAY
 MAJOR AUDIBLE ALARM CIRCUIT
 ONE LEAD PER OFFICE
 ALARM CHECKING TERMINAL CKT.
 ONE LEAD PER CIRCUIT
 ALL CKTS WITH CONNECTING LEAD DESIG. "60C" OR "60D"

TABLE G
CIRCUITS REQUIRING 60 I.P.M. INTERRUPTIONS WITH ALARM FEATURE 24V. ALARM - CONNECTING LEADS DESIG. "60 I.P.M. BR3" PROVIDE "W" WIRING 48V. ALARM - CONNECTING LEADS DESIG. "60 I.P.M. BR3" PROVIDE "W" WIRING

TOLL TEST BOARD NO. 17B OR 18B - TINED RINGING CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3 OR 3C - TOLL SWITCHING TRUNK CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3, 3B OR 3C - SWITCHBOARD NO. 11 - TOLL TEST BOARD NO.
 5, 17B OR 18B - TELEGRAPH TEST BOARD NO. 9 - POSITION TEST CIRCUIT
 ONE LEAD PER OFFICE
 CROSSBAR SWITCHING - LINK ALLOTING AND ALARM CIRCUIT
 ONE LEAD PER OFFICE
 CROSSBAR SWITCHING - POSITION GROUP CONTROL CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3 OR 3C - SWITCHBOARD NO. 11 - TOLL TEST BOARD NO. 17B
 OR 18B - AUTOMATIC OUTGOING TRUNK CIRCUIT TO DESK
 ONE LEAD PER BAY
 TOLL SWITCHBOARD NO. 3 - BUSY BACK OR REORDER CIRCUIT
 ONE LEAD PER CKT.
 TOLL SWITCHBOARD NO. 1 OR 3 - TOLL TANDEM SWITCHBOARD NO. 1 OR 3 - RINGING
 CONT. CIRCUIT
 ONE LEAD PER OFFICE
 OPERATING ROOM CALLING IN SIGNAL CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3C - KEY SET CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 1, 3, 3C OR 3C/ OR TEST AND CONTROL BOARD NO. 8 (DC OR
 DC & MF KEY SET CIRCUIT)
 ONE LEAD PER 5 CKTS.
 TOLL SWITCHBOARD NO. 3 OR 3C/ OR
 OPERATOR'S RECORDING COMPLETING TRUNK CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARDS
 OPERATOR'S TRAINING EQUIPMENT LINE BUSY FLASH
 ONE LEAD PER OFFICE
 TEST LINE CIRCUIT - ONE WAY TRANSMISSION TESTING
 ONE LEAD PER 10 CKTS.
 "A" SWITCHBOARD INCOMING TRUNK
 ONE LEAD PER OFFICE
 COMMON SYSTEMS - COMMON TIMING AND ALARM CIRCUIT.
 ALL CIRCUITS USING 24V. BATTERY AND WITH CONNECTING LEADS DESIG. "60B"

TABLE H
CIRCUITS REQUIRING 120 I.P.M. INTERRUPTIONS WITH ALARM FEATURE 24V. ALARM - CONNECTING LEADS DESIG. "120 I.P.M. BR3" PROVIDE "W" WIRING 48V. ALARM - CONNECTING LEADS DESIG. "120 I.P.M. BR3" PROVIDE "W" WIRING

TOLL TANDEM SWITCHBOARD NO. 3C - REORDER CIRCUIT
 ONE LEAD PER OFFICE
 TOLL TEST BOARD NO. 17B OR 18B - KEY SET CIRCUIT
 TWO LEADS PER OFFICE, ONE FOR ODD, ONE FOR EVEN
 POSITIONS
 TOLL SWITCHBOARD NO. 3 OR 3C - TOLL SWITCHING TRUNK CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3 - INTERTOLL TRUNK AND RURAL SUBSCRIBER'S LINE CIRCUIT
 ONE LEAD PER BAY
 TOLL SWITCHBOARD NO. 3 OR 3C - R.D., INTERTOLL TRUNK CIRCUIT
 ONE LEAD PER BAY
 TOLL SWITCHBOARD NO. 3B OR 3C - TOLL TEST BOARD NO. 5, 17B OR 18B -
 TELEGRAPH TEST BOARD NO. 9 - POSITION TEST CIRCUIT
 ONE LEAD PER CKT.
 TOLL SWITCHBOARD NO. 1B, 3, 3B OR 3C - TOLL TANDEM SWITCHBOARD NO. 3 -
 OVERFLOW CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3 - KEY PULSING TEST SET
 ONE LEAD PER CKT.
 TOLL SWITCHBOARD NO. 3B - DISCRIMINATING CIRCUIT AND OPERATOR'S CONT.
 CIRCUIT
 ONE LEAD PER POSITION
 TOLL SWITCHBOARD NO. 3 - AUXILIARY SIGNAL AND FLASH CIRCUIT
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3 - BUSY BACK OR REORDER CIRCUIT
 ONE LEAD PER CKT.
 TOLL SWITCHBOARD NO. 3 - STFD, TRUNKING OFFICE SWITCHING TRUNK CIRCUIT.
 ONE LEAD PER POSITION
 TOLL TANDEM SWITCHBOARD NO. 1 OR 3 - RELAY INT. CIRCUIT
 ONE LEAD PER OFFICE
 INCOMING TRUNK TO INFORMATION DESK
 ONE LEAD PER 10 CKTS.
 TOLL SWITCHBOARDS
 OPERATOR'S TRAINING EQUIPMENT ALL TRUNKS BUSY FLASH
 ONE LEAD PER OFFICE
 TOLL SWITCHBOARD NO. 3 - KEY SET CIRCUIT
 ONE LEAD PER 50 KEY SETS
 COMMON SYSTEMS - COMMON TIMING AND ALARM CIRCUIT
 ALL CIRCUITS WITH 24V. BATTERY AND WITH CONNECTING LEADS DESIG. "120B"

CIRCUIT NOTES (CONT.):

TO FURNISH 30, 60 & 120 I.P.M. INTERRUPTIONS TO CONNECTING CKTS. PROVIDE FIGS. 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

INTERRUPTIONS REQUIRED	FIGS. OF OPTION AS FOLLOWS	CONNECTIONS	CONNECTIONS
60 I.P.M. WITH ALARM	24V. 10, 11	E.W. 60A	60B
120 I.P.M. WITH ALARM	24V. 10, 11	E.W. 120A	120B
60 I.P.M. WITHOUT ALARM	24V. 10	E.W. 60C	60D
120 I.P.M. WITHOUT ALARM	24V. 10	E.W. 120C	120D
PATHS BUSY TONE* WITH ALARM AND WITHOUT FLASH**	48V. 7, 10, 8, 11	G.W.X. 60E OR *60F	60G OR *60H
PATHS BUSY FLASH* WITH ALARM AND WITHOUT TONE	48V. 7, 10, 8, 11	E.W. 120E	120F
PATHS BUSY FLASH* WITH ALARM AND WITHOUT TONE	48V. 7, 10, 8, 11	E.W. 120F	120G
LINE BUSY FLASH* WITH ALARM AND WITHOUT TONE	48V. 7, 10, 8, 11	E.W. 120G	120H
30 IPM WITH ALARM	48V. 10, 11	E.W. 30A	30B
30 IPM TONE	48V. 10, 11	E.W. 30C	30D
PATHS BUSY TONE WITH ALARM AND WITHOUT FLASH**	48V. 11, 15	LT1 120 IPM BR2	

*SEE NOTE 106
 **SEE NOTES 123 & 303
 119. PROVIDE 1-1/2 AMP FUSES FROM 48V SIG. BAT. FOR FIG. 10 AS FOLLOWS:
 (A) FOR (C1) REL. ONE FOR ODD, AND ONE FOR EVEN FIGS. 10 SUPPLYING 30 IPM AND ONE FOR ODD AND ONE FOR EVEN FIGS. 10 SUPPLYING 60 IPM AND ONE FOR ODD AND ONE FOR EVEN FIGS. 10 SUPPLYING 120 IPM.
 (B) FOR (D1) REL. ONE FOR ODD, AND ONE FOR EVEN FIGS. 10 SUPPLYING 30 IPM AND ONE FOR ODD AND ONE FOR EVEN FIGS. 10 SUPPLYING 60 IPM AND ONE FOR ODD AND ONE FOR EVEN FIGS. 10 SUPPLYING 120 IPM.
 120. PRIOR TO ISSUE 19D 2J LAMP V OPTION WAS NOT SHOWN ON FIG. 11.
 121. PROVIDE F OPTION WHEN CONNECTING CIRCUITS ARE TO BE (MFR. DISC) MODIFIED FOR TONE SIGNALS WITHOUT FLASH. SEE NOTE 301.
 122. PROVIDE G OPTION WHEN CONNECTING CIRCUITS ARE TO BE (MFR. DISC) MODIFIED FOR TONE SIGNALS WITH ALARM AND WITHOUT ONLY FLASH. SEE NOTE 302.
 123. PROVIDE B AND E OPTIONS FOR FLASH WITH ALARM AND WITH OR WITHOUT TONE.
 123. PRIOR TO ISSUE 24D, FIG. 15 WAS NOT SHOWN. FIG. 15 IS FOR USE WHERE CONNECTING CIRCUITS REQUIRE 120 IPM TONE SIGNALS WITHOUT FLASH. FIG. 7 IS RATED MFR. DISC. FOR THIS USE REPLACED BY FIG. 15 FOR SELECTORS.

TABLE K
CIRCUITS REQUIRING 120 IPM INTERRUPTIONS WITH FILTER PER FIG. 15 AND 48V ALARM FEATURE

SD-31606-01 5 PAGES CIRCUIT REQUIREMENTS

APPARATUS		MECH REQ		CIRCUIT PREPARATION		SEE TEST SET PREP		DIRECT CURRENT FLOW REQ			REMARKS	DWG ISS		
DESIG	CODE	OPTION	EXT FIG	BSP FIG	CONT. PRES.	BLK OR INSULATE	TEST CLIP DATA	TEST SET NO.	TEST WDG FOR	TEST AFTER SOAK			TEST READ	
REAYS														
A,B	R576		1	11/11	H	15	RT	REL	GRD	1	P	24.5	23	
							TST	GRD	1	P	NO	9.5	10	
A,B	U1254		12	111/101	H	29	T	REL	GRD	1	O	9.4	8.9	
							TST	GRD	1	O				
A,B	R576		1	11/11	H	15	RT	REL	GRD	2	P	24.5	23	
							TST	GRD	2	P	NO	9.5	10	
A,B	U1254		12	111/101	H	29	T	REL	GRD	2	O	9.4	8.9	
							TST	GRD	2	O				
AL	F1296		6A	9/11	H	35	RT(AL)	GRD				21	20	
A	R1518		6B	23/9	L	25	RT(AL)	GRD				25.5	24	
C,D	223BN		2	5-4	29C	16	B	REL	GRD	3	O	FS	19.5	18.5
							TST	GRD	3	NO	FS	10	10.6	
C,C1	J137		10	52/521	H	41	T	REL	GRD			24	22.5	
D,D1							TST	GRD						

TEST NOTES:
 1. KEY (A) OPERATED
 2. KEY (A) NON-OPERATED
 3. AS PERMITTED BY SEQUENCE ANY TWO BREAK CONTACTS MAY BREAK.

APPARATUS		MECH REQ		CIRCUIT PREPARATION		SEE TEST SET PREP		DIRECT CURRENT FLOW REQ			REMARKS	DWG ISS	
DESIG	CODE	OPTION	EXT FIG	BSP FIG	CONT. PRES.	BLK OR INSULATE	TEST CLIP DATA	TEST SET NO.	TEST WDG FOR	TEST AFTER SOAK			TEST READ
S	U1318		14	160/132	H	47		2B(S)	GRD	1	O	9.4	8.9
								1B(R)				3.6	3.4
S1	U1318		14	132/101	H	47		2T(S)	GRD	2	O	7.3	6.9
								1B(R)				27.5	26
T	U1318		13	160/132	H	47		T(T)	GRD		O	8.4	8.9
W	U829		14	121/130	H	50		2B(Z)	GRD	3	O	22	21
								1B(W)				32.5	31
W1	U829		14	121/130	H	50		2T(W)	GRD	4	O	21	21
								1B(W)				22.5	21

TEST NOTES:
 1. PAR COMB (R)&(S) RELAYS, EACH IN SERIES WITH 1/2 RES. (B)
 2. PAR COMB (R1)&(S1) RELAYS, EACH IN SERIES WITH 1/2 RES. (B1)
 3. PAR COMB (W)&(Z) RELAYS, EACH IN SERIES WITH 1/2 RES. (A)

APPARATUS		MECH REQ		CIRCUIT PREPARATION		SEE TEST SET PREP		DIRECT CURRENT FLOW REQ			REMARKS	DWG ISS	
DESIG	CODE	OPTION	EXT FIG	BSP FIG	CONT. PRES.	BLK OR INSULATE	TEST CLIP DATA	TEST SET NO.	TEST WDG FOR	TEST AFTER SOAK			TEST READ
E	206FP OR 280CH		S	4		B	3(E)	1(E)	NGB		O	-180	4.3
							3(E)	1(E)	NGB		NO	-180	3.1
							3(E)	1(E)	NGB		O	-180	44.5
							3(E)	1(E)	NGB		R	180	13.3
E	206FP OR 280CH		S	8		B	(E)JK-R	(E)JK-T	B/G		O	-180	4.3
							(E)JK-R	(E)JK-T	B/G		NO	-180	3.1
							(E)JK-R	(E)JK-T	B/G		O	-180	44.5
							(E)JK-R	(E)JK-T	B/G		R	180	13.3
F	1021		S			H	(B)F	GRD			O	41	39
							(B)F	GRD			NO	28.5	30
F	Y142		9	175/164	H	47	T(F)	GRD	1	O	FS	17.5	16.5
							T(F)	GRD	1	H	FS	1.5	1.4
							T(F)	GRD	1	R	FS	0.8	1
G	149CG		S			A	I(F)	GRD			O	14.7	14
							I(F)	GRD			R	0.9	1
G	Y126		9	175/164	H	47	T(G)	GRD	1	O	FS	21	20
							T(G)	GRD	1	H	FS	1.8	1.7
							T(G)	GRD	1	R	FS	0.9	1.2
H	E555		5A	1/1	H	15	RT(H)	GRD			O	9.5	9

TEST NOTES:
 1. ADJACENT RELAYS SHALL NOT BE ENERGIZED. SEE BSP

APPARATUS		MECH REQ		CIRCUIT PREPARATION		SEE TEST SET PREP		DIRECT CURRENT FLOW REQ			REMARKS	DWG ISS	
DESIG	CODE	OPTION	EXT FIG	BSP FIG	CONT. PRES.	BLK OR INSULATE	TEST CLIP DATA	TEST SET NO.	TEST WDG FOR	TEST AFTER SOAK			TEST READ
Z	U1318		14	160/132	H	47		2B(Z)	GRD	1	O	9.4	8.9
								1B(W)				3.4	3.2
Z1	U1318		14	132/101	H	47		2T(Z)	GRD	2	O	7.3	6.9
								1B(W)				27.5	26

TEST NOTES:
 1. PAR COMB (W)&(Z) RELAYS, EACH IN SERIES WITH 1/2 RES (A)
 2. PAR COMB (W1)&(Z1) RELAYS, EACH IN SERIES WITH 1/2 RES (A1)

APPARATUS		MECH REQ		CIRCUIT PREPARATION		SEE TEST SET PREP		DIRECT CURRENT FLOW REQ			REMARKS	DWG ISS	
DESIG	CODE	OPTION	EXT FIG	BSP FIG	CONT. PRES.	BLK OR INSULATE	TEST CLIP DATA	TEST SET NO.	TEST WDG FOR	TEST AFTER SOAK			TEST READ
H	R351		5B	11/1	H	15	RT(H)	GRD			O	9.5	9
L	U1250		6B	111/101	H	29	T(L)	GRD			O	6.3	6
PA,PB	R827		6	14/14	H	35	RT	REL	GRD		O	10.5	10
							TST	GRD					
PC	R1484		6	10/3	H	20	RT(PC)	GRD			O	19	18
PU	R1378		6	23/23	L	30	RT(PU)	GRD			O	14.5	13.5
R	U829		14	121/130	H	50		2B(R)	GRD	1	O	22	21
								1B(R)				32.5	31
RI	U829		14	121/130	H	50		2T(R)	GRD	2	O	22	21
								1B(R)				32.5	31

TEST NOTES:
 1. PAR COMB (R)&(S) RELAYS, EACH IN SERIES WITH 1/2 RES (B)
 2. PAR COMB (R1)&(S1) RELAYS, EACH IN SERIES WITH 1/2 RES. (B1)

201	202	203	204	205	206	207	208	209	210
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EQUIPMENT NOTES:

201. THE 206 TYPE RELAYS SHALL BE MOUNTED ON A MIN. OF 3-1/2" CENTERS BOTH HORIZONTALLY AND VERTICALLY WITH RESPECT TO THEMSELVES AS WELL AS ALL OTHER IRON COVERED OR MAGNETIC APPARATUS.

202. IF THE TEL. & MDE LOUD SPEAKER CKTS FOR BOTH A CABLE TEST DESK NO. 3 AND A LOCAL TEST DESK NO. 14 ARE MOUNTED IN THE SAME LOCATION, ALL CIRCUITS MAY BE SERVED BY THE SAME 60 I.P.M. & 120 I.P.M. LEADS.

203. PRIOR TO ISSUE 140 SEPARATE 48V (W/OPTION) BAT. SUPPLY WAS NOT SHOWN FOR EVEN 60 I.P.M. CKTS IN FIG. 4L ON ISSUE 150, SEPARATE "Q" OPTION LEAD WAS ADDED TO FIG. 7L.

204. SEPARATE EQUIPMENT UNITS WIRED PER FIGS. 52 & 55 OR 57 & 58 ARE REQUIRED FOR 30 I.P.M., 60 I.P.M. AND 120 I.P.M.

205. LINE AND PATHS BUSY FLASH AND INTERRUPTED TONE LEADS SHALL BE RUN AS "C" WIRING. THIS SHALL BE DONE IN THE CASE OF PATHS BUSY FLASH IRRESPECTIVE OF WHETHER TONE IS FURNISHED INITIALLY (TO PROVIDE FOR POSSIBLE FUTURE ADDITION OF TONE).

206. FOR IDENTIFICATION PURPOSES 48V FUSE DESIGNATIONS ARE INDICATED ON THE LEADS TO THE FUSE BOARD IN FIGS. 51 & 52 CORRESPONDING WITH FUSE DESIGNATIONS ON THE WFG WIRING DIAGRAM.

207. 30 I.P.M., 60 I.P.M. & 120 I.P.M. LEADS SHALL BE NUMBERED CONSECUTIVELY IN THE OFFICE (ONE NUMBER SERIES FOR 60 I.P.M. AND ONE FOR 120 I.P.M.) 1-12 FOR THE FIRST UNIT, 13-24 FOR THE 2ND UNIT, ETC. FILTERED LEADS PER FIGS. 7 AND 53 OR 15 AND 57 SHALL BEAR THE NUMBERS AS THE ASSOCIATED LEADS FROM FIGS. 10 AND 52 OR 11 AND 58 RESP.

208. ON ISSUE 220 F AND G OPTIONS WERE ADDED IN FIGS. 7L AND 53. G OPTION IS FURNISHED AS STANDARD FOR FLASH OR FLASH AND TONE. WHERE EXISTING CONNECTING CIRCUITS ARE TO BE PROVIDED WITH TONE IN PLACE OF BUSY FLASH PER NOTE 205, F OPTION MAY BE AFFECTED BY DISCONNECTING THE G OPTION LEAD. Q OR X OPTION MUST BE CONNECTED.

209. ON ISSUE 228 F OPTION WAS RATED MFR DISC. G OPTION WAS RATED A & M ONLY IN FIGS. 7L AND 53 AND B OPTION WAS ADDED IN FIG. 53. B OPTION IS FURNISHED AS STANDARD FOR FLASH OR FLASH AND TONE. WHERE EXISTING CONNECTING CIRCUITS ARE TO BE PROVIDED WITH BUSY TONE ONLY G OPTION IS TO BE PROVIDED PER NOTE 202. Q OR X OPTION MUST BE CONNECTED.

210. ON ISSUE 250 FIGS. 54 & 56 WERE RATED MFR DISC.

211	212	213	214	215	216	217	218	219	220
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FIG. 58 (FOR 5 FIGS 15)

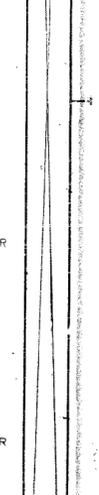


FIG. 57 (FOR FIGS. 8, 11, 15)

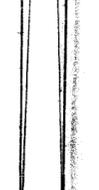


FIG. 56 (MFR DISC.) (FOR FIGS. 5B, 6B, 9 & 14) 30 I.P.M. INT & ALM



FIG. 55 (MFR DISC.) (FOR FIGS. 6 & 14) 30 I.P.M. INT AND ALARM



FIG. 54 (MFR DISC.) (FOR FIGS. 5B, 6, 8, 9 & 13) 30 I.P.M. TRNS & ALM



FIG. 53 (FOR FIG. 7) SEE NOTE 204



FIG. 56 (MFR DISC.) (FOR FIGS. 5B, 6B, 9 & 14) 30 I.P.M. INT & ALM

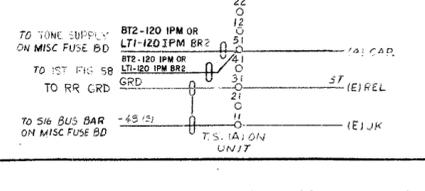
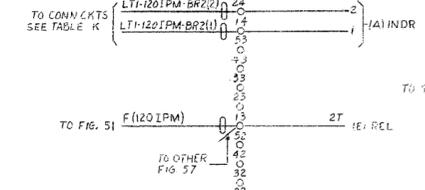
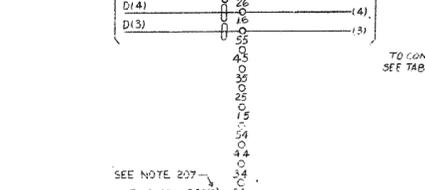
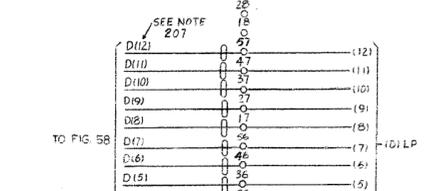
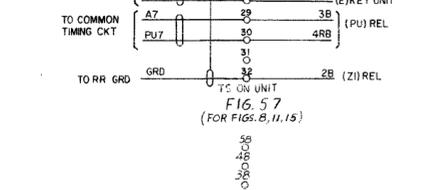
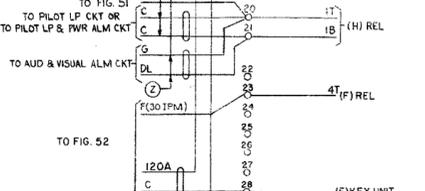
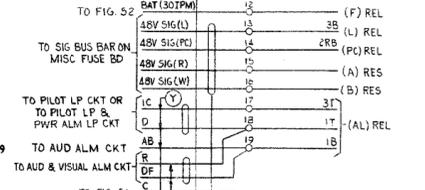
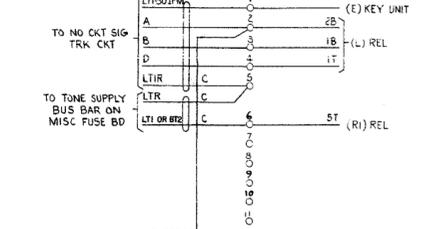


FIG. 51 (FOR FIGS. 5B, 6, 8, 9 & 12)

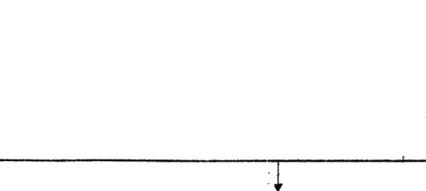
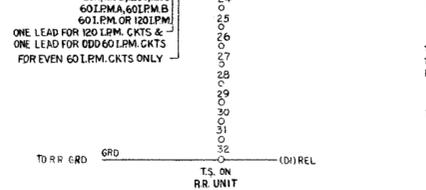
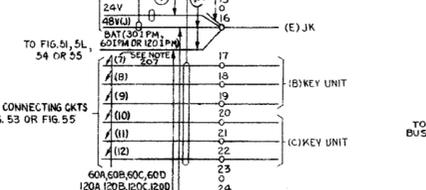
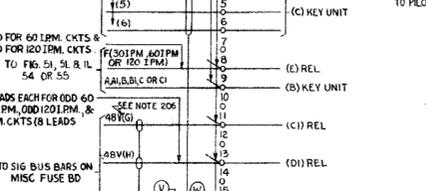
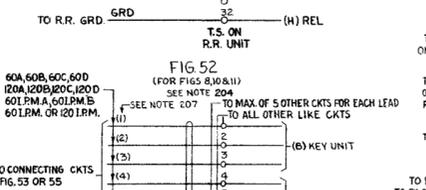
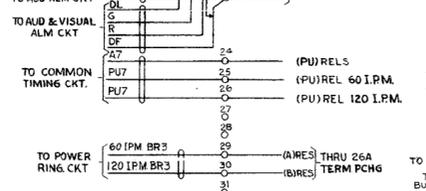
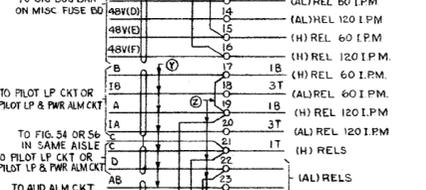
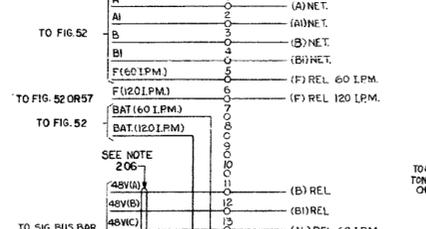
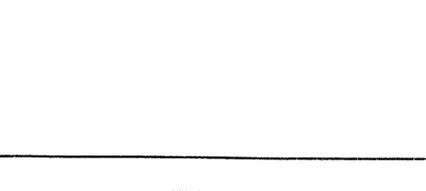
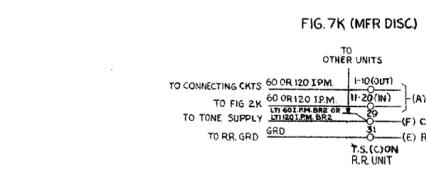
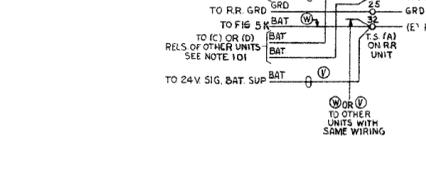
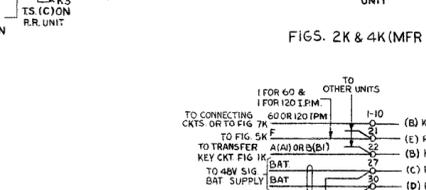
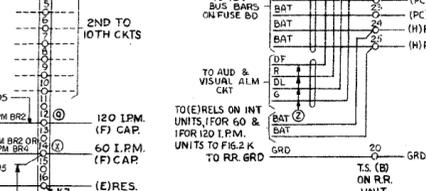
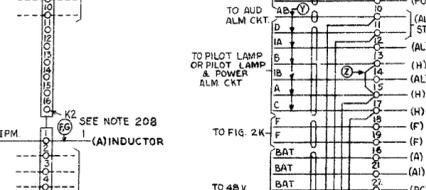
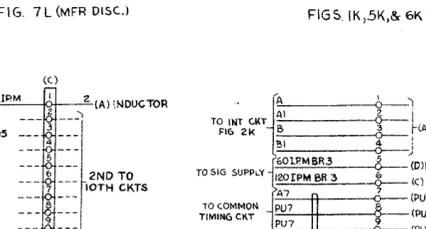
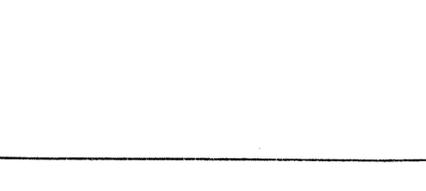
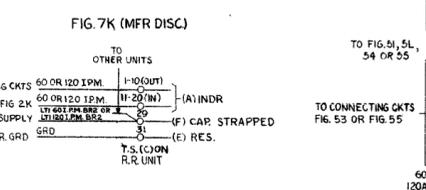
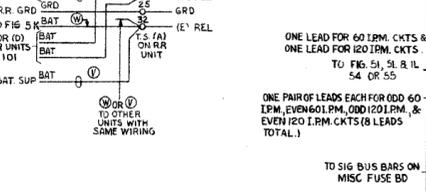
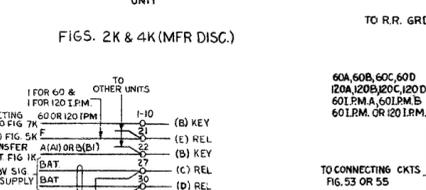
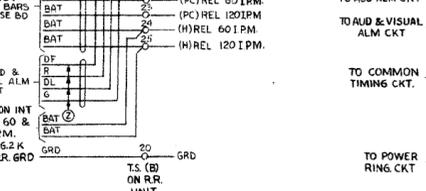
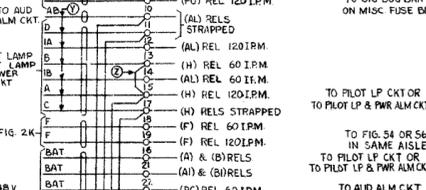
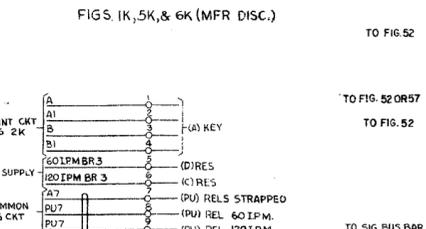


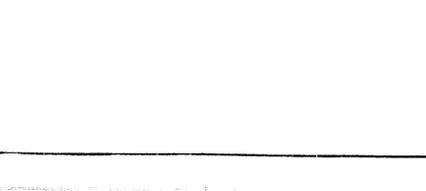
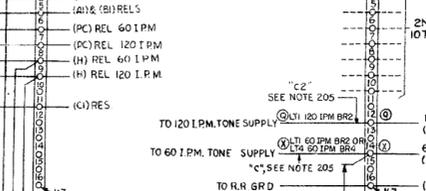
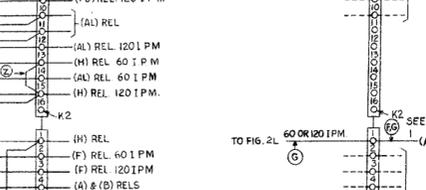
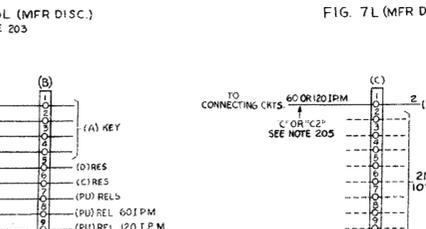
FIG. 7L (MFR DISC.)



FIGS. 5K, 5L, & 6K (MFR DISC.)



FIGS. 5L & 6L (MFR DISC.) SEE NOTE 203



FIGS. 2L & 4L (MFR DISC.) SEE NOTE 203

