

**SWITCHED ACCESS REMOTE TEST SYSTEM (SARTS-1A)
TEST POSITION 52A (TP-52A)
INSTALLATION AND INITIAL TESTS**

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requires 96 Central Office Lines.) The assignment and a connecting block arrangement or terminal strip(s) (provided locally) to terminate these lines are required before initial testing begins. The communication line portion of the console has 18 pickup keys for use with the 1A2 KTS. Local requirements will govern the assignment of Central Office lines, PBX lines, and tie trunks to these keys and the arrangement of 400 series Key Telephone Units they control. The communication line portion of the console can be installed and made operational prior to or concurrent with the test line portion.

GENERAL

1.01 This section contains instructions and references necessary to install, interconnect, and initially test the Test Positions 52A (TP-52A). Installation and tests of the Synchronous DATASPEED 40® Station (KD) and the communication line portion of the 126A6 Telephone Console (SD-1P008-01) including the associated 1A2 Key Telephone System (KTS) are contained in existing Bell System Practices referenced in this section. The *test line* portions of the console and the associated Test Line Control Circuit (SD-1P009-01) should satisfy the initial testing performed in this section before the TP-52A is used in the SARTS-1A environment.

1.02 This section does not affect Equipment Test List.

1.03 The test line portion of each console will require four Central Office Lines capable of receiving Direct Inward Dialed (DID) calls from the Direct Distance Dialing (DDD) network. (A full complement of TP-52As in one installation

1.04 In some installations, the -48 volt battery and ground required for the test line control cabinet will not be available from a central office. (See Note 105 on SD-1P009-01.) When the optional power supply is used, local arrangements for a mounting location and the required ac service outlet must be made. In some installations, interconnections to office alarms will be required. In these cases, terminating information should be obtained from assignments in the office alarm drawings of the central office.

1.05 All cabling to the test line control cabinet should enter the cabinet from beneath raised flooring.

2. INSTALLATION AND INTERCONNECTION

2.01 Chart A can be used to initially install a TP-52A and associated equipment or make additions to an existing installation.

2.02 On initial installations or when adding a third test line control cabinet for TP-52A positions 17 to 24, after performing the procedures in Chart A, install the 15 amp dc fuse and associated alarm fuse as shown on the dc power distribution drawing for the office. If the optional power

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SECTION 666-612-200

supply arrangement is furnished, connect the power supply cord to the 115V ac receptacle provided. Then measure and adjust the dc output to -48 volts.

2.03 Check each cabinet fuse alarm circuit by inserting an operated 70-type fuse into each fuse location on the fuse and alarm panel. The FA lamp on the panel should light and when required the proper office alarms should operate.

2.04 Connect each cabinet(s) power cable (from the power strip inside of rear of cabinet) to the 115V ac receptacle provided beneath the raised flooring. Verify that fan in top of cabinet(s) operates. Connect the 115V ac power cords from the 79B2 power units to the power strip receptacles.

2.05 Install designations in TEST LINE keys. (See Fig. 1.) The COMMUNICATION LINE key designations will vary with the local arrangements specified for the 400 series of Key Telephone Units in the 1A2 KTS.

3. INITIAL TESTS

A. Synchronous DATASPEED 40® Station (KD)

3.01 Refer to Section 579-505-354, Field Installation and Maintenance, for all initial tests.

B. 1A2 Key Telephone System

3.02 Refer to applicable Sections 518-215-ZZZ as required for all initial and operational tests

of local arrangement of 400 series Key Telephone Units.

C. 126A6 Telephone Console

3.03 On each console installed, check the mechanical operation of all keys. All test line keys should operate push-to-lock and push-to-release. All communication line keys are push-to-lock under release key control. Verify mechanical operation of dial or TOUCH-TONE® pad. (If 1A2 KTS has been installed, the equipped communication line pickup keys are tested as part of the 1A2 key equipment installation and will be functional.) Verify that two or more communication line pickup keys can be simultaneously depressed and will respond to HOLD key. (This feature is unique to the 126A6 console to permit communication line conferencing by override of the mechanical lockout feature usually supplied with pickup key units.)

D. Test Lines

3.04 Chart B is an operational test of the TP-52A console based on the sequence charts on SD-1P008-01, Sheets E1 through E6. This chart can be used to test all features of the Test Line keys and associated test line control circuitry. The central office line circuits for each Test Line in each console to be tested should be connected to the connecting block arrangement or terminal strip used to terminate the ED-1P254-30 Group 3 cables (see Fig. 1).

CHART A

INSTALLATION AND INTERCONNECTION PROCEDURES FOR TP-52A

PROCEDURE	NOTES	REFERENCES																																																																																																																																																																																																																																																																																																																																
<p>Place desk, chair, KD terminal, and telephone console in position location shown on local floor plan.</p> <p>Place J1P011A test line control cabinet in position shown on local floor plan.</p>	<p>KD terminal and console sit on desk top. Jack mounting and hardware shipped loose with 126A6 console mounts on under side of desk top. Connect M8N cord of jack mounting to console TB1.</p>	<p>SD-1P008-01 FS1 (Note 1)</p>																																																																																																																																																																																																																																																																																																																																
<p>Place interconnecting cables from console mounting cord plugs (see Table A for color code).</p>	<p>Opening in raised flooring required for cables.</p> <p>Two ED-1P254-20 Group 1 per console. Plugs 3 and 4 of each 8 consoles equipped connect to connector on ED-1P254-01 panel in a cabinet as follows:</p> <table border="1" data-bbox="1830 600 2573 758"> <tr> <td rowspan="2">PLUG 3</td> <td>52-A TP No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> <tr> <td>CAB. CONN.</td> <td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td><td>13</td><td>15</td> </tr> <tr> <td rowspan="2">PLUG 4</td> <td>52-A TP No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> <tr> <td>CAB. CONN.</td> <td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td><td>14</td><td>16</td> </tr> </table> <p>Two ED-1P254-20 Group 2 per console. Plug 1 cables for pickup keys 1 through 12. Plug 2 cables for pickup keys 13 through 18.</p> <p>Two ED-1P254-20 Group 3 per cabinet. Connector 17 and 18 on ED-1P251-30G1 panel connects to 32 central office lines as follows:</p> <table border="1" data-bbox="1712 915 2691 1800"> <thead> <tr> <th colspan="6">POS</th> <th>TST LINE</th> <th colspan="8">CENTRAL OFFICE LINE</th> <th colspan="2">PIN NUMBERS IN CABLE PLUG</th> </tr> <tr> <th colspan="6"></th> <th></th> <th colspan="8"></th> <th>T</th> <th>R</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2">5</td> <td rowspan="2">9</td> <td rowspan="2">13</td> <td rowspan="2">17</td> <td rowspan="2">21</td> <td rowspan="2">1</td> <td>ANS/MON</td> <td>1</td><td>17</td><td>33</td><td>49</td><td>65</td><td>81</td> <td>41</td><td>16</td> </tr> <tr> <td>ANS/TLK</td> <td>2</td><td>18</td><td>34</td><td>50</td><td>66</td><td>82</td> <td>40</td><td>15</td> </tr> <tr> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2">2</td> <td>ANS/MON</td> <td>3</td><td>19</td><td>35</td><td>51</td><td>67</td><td>83</td> <td>39</td><td>14</td> </tr> <tr> <td>ANS/TLK</td> <td>4</td><td>20</td><td>36</td><td>52</td><td>68</td><td>84</td> <td>38</td><td>13</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">6</td> <td rowspan="2">10</td> <td rowspan="2">14</td> <td rowspan="2">18</td> <td rowspan="2">22</td> <td rowspan="2">1</td> <td>ANS/MON</td> <td>5</td><td>21</td><td>37</td><td>53</td><td>69</td><td>85</td> <td>37</td><td>12</td> </tr> <tr> <td>ANS/TLK</td> <td>6</td><td>22</td><td>38</td><td>54</td><td>70</td><td>86</td> <td>36</td><td>11</td> </tr> <tr> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2">2</td> <td>ANS/MON</td> <td>7</td><td>23</td><td>39</td><td>55</td><td>71</td><td>87</td> <td>35</td><td>10</td> </tr> <tr> <td>ANS/TLK</td> <td>8</td><td>24</td><td>40</td><td>56</td><td>72</td><td>88</td> <td>34</td><td>9</td> </tr> <tr> <td rowspan="2">3</td> <td rowspan="2">7</td> <td rowspan="2">11</td> <td rowspan="2">15</td> <td rowspan="2">19</td> <td rowspan="2">23</td> <td rowspan="2">1</td> <td>ANS/MON</td> <td>9</td><td>25</td><td>41</td><td>57</td><td>73</td><td>89</td> <td>33</td><td>8</td> </tr> <tr> <td>ANS/TLK</td> <td>10</td><td>26</td><td>42</td><td>58</td><td>74</td><td>90</td> <td>32</td><td>7</td> </tr> <tr> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2">2</td> <td>ANS/MON</td> <td>11</td><td>27</td><td>43</td><td>59</td><td>75</td><td>91</td> <td>31</td><td>6</td> </tr> <tr> <td>ANS/TLK</td> <td>12</td><td>28</td><td>44</td><td>60</td><td>76</td><td>92</td> <td>30</td><td>5</td> </tr> <tr> <td rowspan="2">4</td> <td rowspan="2">8</td> <td rowspan="2">12</td> <td rowspan="2">16</td> <td rowspan="2">20</td> <td rowspan="2">24</td> <td rowspan="2">1</td> <td>ANS/MON</td> <td>13</td><td>29</td><td>45</td><td>61</td><td>77</td><td>93</td> <td>29</td><td>4</td> </tr> <tr> <td>ANS/TLK</td> <td>14</td><td>30</td><td>46</td><td>62</td><td>78</td><td>94</td> <td>28</td><td>3</td> </tr> <tr> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2">2</td> <td>ANS/MON</td> <td>15</td><td>31</td><td>47</td><td>63</td><td>79</td><td>95</td> <td>27</td><td>2</td> </tr> <tr> <td>ANS/TLK</td> <td>16</td><td>32</td><td>48</td><td>64</td><td>80</td><td>96</td> <td>26</td><td>1</td> </tr> <tr> <td>J17</td><td>J18</td><td>J17</td><td>J18</td><td>J17</td><td>J18</td> <td colspan="2">Cabinet Conn.</td> <td>J17</td><td>J18</td><td>J17</td><td>J18</td><td>J17</td><td>J18</td> <td colspan="2">ED-1P254-20</td> </tr> <tr> <td colspan="2">1</td><td colspan="2">2</td><td colspan="2">3</td> <td colspan="2">Cabinet</td> <td colspan="2">1</td><td colspan="2">2</td><td colspan="2">3</td> <td colspan="2">Group 3</td> </tr> <tr> <td>1</td><td>2</td><td>1</td><td>2</td><td>1</td><td>2</td> <td colspan="2">Cable Numbers (to be assigned by installer)</td> <td>1</td><td>2</td><td>1</td><td>2</td><td>1</td><td>2</td> <td colspan="2">Cable 1 or 2</td> </tr> </tbody> </table>	PLUG 3	52-A TP No.	1	2	3	4	5	6	7	8	CAB. CONN.	1	3	5	7	9	11	13	15	PLUG 4	52-A TP No.	1	2	3	4	5	6	7	8	CAB. CONN.	2	4	6	8	10	12	14	16	POS						TST LINE	CENTRAL OFFICE LINE								PIN NUMBERS IN CABLE PLUG																	T	R	1	5	9	13	17	21	1	ANS/MON	1	17	33	49	65	81	41	16	ANS/TLK	2	18	34	50	66	82	40	15							2	ANS/MON	3	19	35	51	67	83	39	14	ANS/TLK	4	20	36	52	68	84	38	13	2	6	10	14	18	22	1	ANS/MON	5	21	37	53	69	85	37	12	ANS/TLK	6	22	38	54	70	86	36	11							2	ANS/MON	7	23	39	55	71	87	35	10	ANS/TLK	8	24	40	56	72	88	34	9	3	7	11	15	19	23	1	ANS/MON	9	25	41	57	73	89	33	8	ANS/TLK	10	26	42	58	74	90	32	7							2	ANS/MON	11	27	43	59	75	91	31	6	ANS/TLK	12	28	44	60	76	92	30	5	4	8	12	16	20	24	1	ANS/MON	13	29	45	61	77	93	29	4	ANS/TLK	14	30	46	62	78	94	28	3							2	ANS/MON	15	31	47	63	79	95	27	2	ANS/TLK	16	32	48	64	80	96	26	1	J17	J18	J17	J18	J17	J18	Cabinet Conn.		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CHART A (Cont)

INSTALLATION AND INTERCONNECTION PROCEDURES FOR TP-52A

PROCEDURE	NOTES	REFERENCES																							
Place connecting cable from cabinet to office alarms (see Table B for color code).	When required.	Office Alarm Drawing																							
Place #12 AWG pair from cabinet to dc power source.	Central office —48v dc and ground or optional dc power supply connects to bus lugs on ED-1P251-01 connector, terminal strip and fuse alarm panel at bottom of cabinet rack mounting.	SD-1P009-01 (Note 105)																							
Insert circuit packs in test line control unit in cabinet.	Each console has four CPs: CP1, CP2, CP3, and CP4. <i>Note:</i> Set attenuators on CP3 to read: 5 on AT1 and AT3 10 on AT2 and AT4																								
Insert 400D key telephone units in 620A panels mounted in test line control cabinet.	One panel serves two test positions as follows: <table border="1" data-bbox="2045 667 2464 895"> <thead> <tr> <th rowspan="2">620A PANEL</th> <th colspan="3">CABINETS</th> </tr> <tr> <th>1 POS</th> <th>2 POS</th> <th>3 POS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1, 2</td> <td>9, 10</td> <td>17, 18</td> </tr> <tr> <td>B</td> <td>3, 4</td> <td>11, 12</td> <td>19, 20</td> </tr> <tr> <td>C</td> <td>5, 6</td> <td>13, 14</td> <td>21, 22</td> </tr> <tr> <td>D</td> <td>7, 8</td> <td>15, 16</td> <td>23, 24</td> </tr> </tbody> </table>		620A PANEL	CABINETS			1 POS	2 POS	3 POS	A	1, 2	9, 10	17, 18	B	3, 4	11, 12	19, 20	C	5, 6	13, 14	21, 22	D	7, 8	15, 16	23, 24
620A PANEL	CABINETS																								
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B	3, 4	11, 12	19, 20																						
C	5, 6	13, 14	21, 22																						
D	7, 8	15, 16	23, 24																						
Mount 79B2 Power Units.	Two power units mount inside on rear door of cabinet (Unit A at top, Unit B at bottom).																								

TABLE A

ED-1P254-20 GROUP 1, 2, 3 CABLES				
PIN	COLOR	CO LINE	PIN	COLOR
1	BL-W	16	26	W-BL
2	O-W		27	W-O
3	G-W		28	W-G
4	BR-W		29	W-BR
5	S-W		30	W-S
6	BL-R		31	R-BL
7	O-R		32	R-O
8	G-R		33	R-G
9	BR-R		34	R-BR
10	S-R		35	R-S
11	BL-BK		36	BK-BL
12	O-BK		37	BK-O
13	G-BK		38	BK-G
14	BR-BK		39	BK-BR
15	S-BK	2	40	BK-S
16	BL-Y	1	41	Y-BL
17	O-Y		42	Y-O
18	G-Y		43	Y-G
19	BR-Y		44	Y-BR
20	S-Y		45	Y-S
21	BL-V		46	V-BL
22	O-V		47	V-O
23	G-V		48	V-G
24	BR-V		49	V-BR
25	S-V		50	V-S

TABLE B

ED-1P254-20 GROUP 4 CABLE				
PIN	COLOR		PIN	COLOR
1	BL2W		8	BL1W
2	B2W		9	O1W
3	G2W		10	G1W
4	BR2W		11	BR1W
5	S2W		12	S1W
6	BL2R		13	BL1R
7			14	

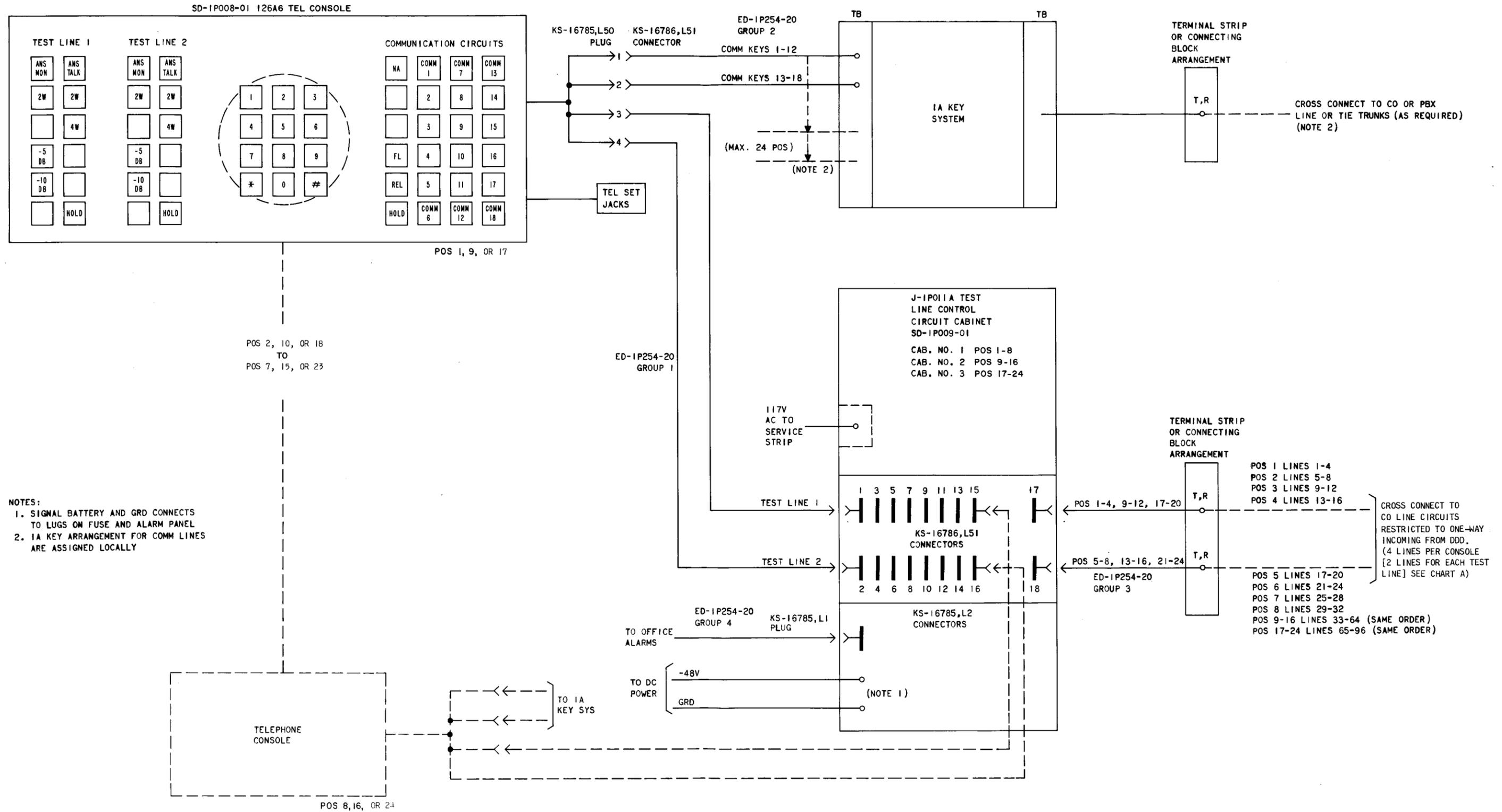


Fig. 1—Interconnection for 52A Test Position

CHART B

KEY/FEATURE	OPERATION	INDICATION	NOTES	REFERENCE
ANS/MON	Plug telephone headset in telephone jacks mounted at TP-52A and verify that all keys are released.			(SD-1P008-01) SC 2 or SC 6
	Originate a DDD type call to the central office line terminal assigned to ANS/MON of TST L1 or 2 on console to be tested.	Lamp in ANS/MON key flashes to indicate incoming call.	This test simulates far-end equipment originating DDD call in normal SARTS-1A operation. <i>Notes:</i> 1. The central office line terminal number is unique to each ANS/MON TST L key in each console. 2. Any telephone, testboard, or a communication line on the console itself that can originate DDD calls can be used. (A testboard location is preferred to simplify verification of monitor pads.) 3. The central office lines to the ANS/MON key should be restricted one-way incoming from DDD network.	
	Press ANS/MON key to lock position.	Lamp in ANS/MON key lights steadily. Originating end can be heard.		
ANS/MON PADS	Apply test tone from a testboard at the originating end of the DDD connection, or bridge connect a test oscillator (21A) transmission test set or equivalent adjusted for 0.0 dBm output at 1 kHz to the T and R punching of the central office line circuit connector block or terminal strip arrangement. Use 21A transmission test set or equivalent to observe test tone at contacts 2 and 3 on 4W2 relay for TST L1 or 2 in test line control cabinet.	Tone observed at telephone headset receiver.	Transmission requirements are not applicable. This test verifies continuity and correct switch setting on adjustable pads in the line control circuit.	(SD-1P008-01) SC 2 or SC 6
-5 dB	Press -5 dB key of TST L1 to lock position.	Lamp lights steadily and test tone indication at relay contacts decreases 5 dB.		(SD-1P008-01) SC 2 or SC 6
-10 dB	Press -10 dB key of TST L1 or 2 to lock position.	Lamp lights steadily and test tone indications at relay contacts decreases an additional 10 dB.		

CHART B (Cont)

KEY/FEATURE	OPERATION	INDICATION	NOTES	REFERENCE
-10 dB (Cont)	Press -5 dB key of TST L1 or L2 to release from lock position.	Lamp extinguishes and test tone indication at relay contacts increases 5 dB.		(SD-1P008-1) SC 2 or SC 6
	Press -10 dB key of TST L1 or 2 to release from lock position.	Lamp extinguishes and test tone indication at relay contacts increases 10 dB.		
2W/ANSWERING UNANTICIPATED TEST LINE CALL	Press to lock position the 2W key below the TST L1 or 2 ANS/MON key.	Lamp lights steadily and telephone headset is supplied transmitter talk battery.	This feature permits communication with an originator of a DDD call that is not SARTS-1A originated.	(SD-1P008-01) SC 12
	Talk to originating end. Press to release the 2W key.	Lamp extinguishes. Telephone headset transmitter battery is removed. Originating end can still be heard.		
ANS/TLK	With ANS/MON key in locked position and lamp steady (monitoring first DDD call), originate a second DDD call to the central office line terminal assigned to the same TST L on console being tested.	Lamp in ANS/TLK key flashes.	This test simulates far-end equipment originating second DDD call in normal SARTS-1A operation in answer to a talk command via KBD terminal. <i>Notes:</i> 1. The central office line terminal number is unique to each ANS/TLK TST L key in each console. 2. Any testboard, telephone, or communication line on the console that can originate DDD calls can be used. 3. The central office lines to the ANS/TLK key should be restricted one-way incoming from DDD network.	
	Press ANS/TLK key to locked position.	Lamp in ANS/TLK key lights steadily.		
2W/ANSWERING UNANTICIPATED TEST LINE CALL	Press to lock position 2W key below the ANS/TLK key.	Lamp lights steadily and telephone headset is supplied talk battery.	This feature permits communication with far-end of DDD calls that are not SARTS originated.	(SD-1P008-01) SC 12

CHART B (Cont)

KEY/FEATURE	OPERATION	INDICATION	NOTES	REFERENCE
2W/ANSWERING UNANTICIPATED TEST LINE CALL (Cont)	Press to release 2W key of ANS/TLK.	Lamp extinguishes, telephone headset transmitter battery is removed. Originating end can still be heard.		SC 12
4W	Press 4W key for TST L1 or 2 to lock position. Verify that 4-wire talk-listen mode is connected by talking to DDD connected call of ANS/TLK key and listening to DDD connected call of ANS/MON key.	Lamp in 4W key lights steadily.	Telephone circuit is now connected 4-wire. The telephone headset receiver is connected to the DDD called ANS/MON line and the transmitter is connected to the DDD called ANS/TLK line.	(SD-1P008-01) SC 3 or SC 7
HOLD	Press HOLD key to lock position.	Lamp in key flashes at 120 IPM.		(SD-1P008-01) SC 4 or SC 8
		ANS/MON, 4W, and ANS/TLK keys remain locked with steady lamps.		
	Press 4W to release.	Lamp extinguishes in 4W key.	Telephone headset circuit is released from TST line and may be used on other test line or on a communication line.	
	Press HOLD key to release.	Hold lamp extinguishes.		SC 9
	Press 4W key to lock.	Lamp in key lights and telephone headset is reconnected to TST lines in 4-wire mode.		
DISCONNECT	Press 4W key, ANS/TLK, and ANS/MON keys to release.	Lamps in all keys extinguish.		(SD-1P008-01) SC 13
NIGHT ALARM AUDIBLE SIGNAL	NA key operated.	Lamp in key lights.	Any incoming call to console causes buzzer in console to operate. Operation of called TST L or COMM LINE key silences buzzer.	(SD-1P008-01) SC 20
SIMULTANEOUS MONITORING OF TST L1 AND 2 CONNECTIONS	With DDD connections established to ANS/MON and ANS/TLK keys of both TST lines and all four keys pressed to lock position. Verify that both TST lines are connected to telephone headset receiver.	All lamps steady.	Make these tests after both TST lines have met all other operational tests.	(SD-1P008-01) SC 10
	Press to release TL2 ANS/MON and ANS/TLK.	Lamp in keys extinguish.		

CHART B (Cont)

KEY/FEATURE	OPERATION	INDICATION	NOTES	REFERENCE
COMM LINE AND TEST LINE CONFERENCING	Press HOLD key of TST L1. Press an assigned COMM LINE key and originate a call to establish a with a testboard or station directory number.	HOLD lamp lights.		(SD-1P008-01) SC 11
	Release HOLD key of TST L1.	HOLD lamp extinguishes.		
	Apply a test tone to connection from DDD connected to ANS/MON key.	Observer at called test-board or station hears tone.		