

CHANGES

SWITCH CONVERSION SHEET (SCS)

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1. GENERAL

1.1 Scope of Section

1.11 This section explains the information contained in and the format of the Switch Conversion Sheet (SCS).

2. PURPOSE AND APPLICATION

2.1 Purpose

2.11 Switch Conversion Sheet is a document which provides detailed instructions for the modification of step-by-step switches and shelves.

2.2 Application

2.21 When modifying step-by-step switches and shelves, it is sometimes necessary to provide detailed instructions covering the conversion from one type to another type switch. This usually occurs when piece part apparatus cannot be readily identified on the switch drawing or when the switch modification cannot be shown in terms of circuit, figures and options.

3. FORMAT OF A SWITCH CONVERSION SHEET

3.1 Header Sheet

3.11 The Header Sheet will contain the Title, Sheet Index and Issue Table, and Issue Note Column.

(a) Title - The Title information will include the equipment modification covered by the Switch Conversion Sheet and the Switch Conversion Sheet number.

(b) Sheet Index and Issue Table - This table will list all sheet numbers of the Switch Conversion Sheet and indicate the latest issue of each sheet adjacent to the sheet number. The Header Sheet issue reflects the latest issue of the Switch Conversion Sheet.

(c) Issue Note Column - The date and issue number is shown. A brief description of the job engineering affected changes, the class of change, and the engineering personnel responsible for the change is specified. If a Change Notice (CN) is issued, the CN number will be included in the issue note.

3.2 Engineering Notes Sheets

3.21 Any engineering information necessary for the application of the Switch Conversion Sheet is indicated. Any information drawings which the engineer should furnish to the installer and the issues of the step-by-step switch or shelf drawings from which the Switch Conversion Sheet was prepared are indicated. Engineering Notes will be numbered from 51 up.

3.3 Material Changes Sheet

3.31 Material changes in tabular form under the headings "Apparatus Removed," "Apparatus Replaced" and "Apparatus Added" will be listed.

3.4 List of Wire Sheet

3.41 All the bulk wire required for the modification covered by the Switch Conversion Sheet will be listed. If no bulk wire is to be furnished, "No Bulk Wire Required" will be shown.

3.5 Installer's Notes Sheet

3.51 Any information which will be helpful to the installer in making the modification is shown.

3.6 Wiring Sheet

3.61 Provides detailed wiring information in tabular form under the headings "Leads to be Removed," "Leads to be Reconnected" and "Leads to be Added."

3.7 Stamping Changes Sheet

3.71 All stamping changes required for the modification is listed.

4. COLLATION OF THE SWITCH CONVERSION SHEET

4.1 The sequence of collating the sheets which comprise the Switch Conversion Sheet shall be as follows.

Header Sheet	CSLF952
Engineering Notes Sheet	CSLF952A
Material Changes Sheet	CSLF952A
List of Wire Sheet	CSLF952A
Installer's Notes Sheet	CSLF952A
Wiring Sheet	CSLF952A
Stamping Changes Sheet	CSLF952A

5. TYPICAL SWITCH CONVERSION SHEET

5.1 Figures 1 to 7 are typical illustration of how a Switch Conversion Sheet will be prepared. Warranted alterations may be made, but the general format will be maintained.

6. NUMBERING OF SWITCH CONVERSION SHEET

6.1 The sheets will be numbered with the prefix "SCS" and a three character numeric or four character alpha numeric suffix. For example, SCS-340 or SCS-350A. The three or four character suffix will be assigned on a local PECC basis.

MANAGER ENGINEERING PRACTICES

ATTACHMENT

Figure 1 to 7
on Pages 3 thru 9

CSLF 952A1011
WESTERN ELECTRIC COMPANY, INC
SYSTEMS EQUIPMENT ENGINEERING

LINE	ENGINEERING NOTES
01	
02	51. This conversion agrees with ED-33015-30 Issue 8 and ED-33013-30 Issue 13.
03	
04	
05	
06	52. Engineering shall furnish copy of the following drawings for the installer's
07	information.
08	
09	T-616850
10	A-151259
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CSLF 952A1011
 WESTERN ELECTRIC COMPANY, INC
 SYSTEMS EQUIPMENT ENGINEERING

LINE	MATERIAL CHANGES			
01				
02	<u>Apparatus Removed</u>			
03	<u>Funct. Desig.</u>	<u>Code</u>	<u>Pos.</u>	
04	WIPER ASSY	P-252723		
05	NPS ASSY	P-252936		
06	NP CAM	P-296593		
07				
08				
09	<u>Apparatus Replaced</u>			
10	<u>Funct. Desig.</u>	<u>Repl. Code</u>	<u>Pos.</u>	<u>Repl. by Code</u>
11	(B) REL	222KF	2	222M
12	(F) REL	224BW	6	222CP
13	SW SHAFT ASSY	P-252481		P-252521
14	TST JK ASSY	P-16A137		P-16A138
15	BANK ROD ASSY (2)	P-252484		P-250983, P-251687
16	NP ASSY	P-252497		P-252494
17				
18				
19	<u>Apparatus Added</u>			
20	<u>Funct. Desig.</u>	<u>Code</u>	<u>Pos.</u>	
21	Bushing	P-250483		
22	Washer (2)	P-465952		
23	Washer	P-284145		
24	RHM SCR	P-160958		
25				
26				

CSLF 952A(10)
WESTERN ELECTRIC COMPANY, INC
SYSTEMS EQUIPMENT ENGINEERING

LINE	LIST OF WIRE REQUIRED			
01				
02	<u>Color</u>	<u>Gauge</u>	<u>Feet Req'd</u>	<u>P.P. No.</u>
03	G	24BW	8	P-46B054
04	G-W	24BW	2	P-46B186
05	BR-W	24BW	2	P-46B189
06	BL	24BW	2	P-46B069
07	BL-O	24BW	2	P-46B178
08	BL-W	24BW	5	P-46B177
09	R-O	24BW	7	P-46B193
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FIGURE 4

CSLF 952A1011
WESTERN ELECTRIC COMPANY, INC
SYSTEMS EQUIPMENT ENGINEERING

LINE	INSTALLER'S NOTES
01	
02	1. Unless the terminal designations are stamped on the apparatus, terminals are
03	designated arbitrarily in this conversion per T-616850.
04	
05	
06	
07	
08	2. Colors of wires to be removed or reconnected are those which were used in the
09	original manufacture of the unit. In those cases where the unit being modified
10	is the product of previous field modification, some of these colors may differ
11	from those shown herein.
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CSLF 952A(01)
 WESTERN ELECTRIC COMPANY, INC
 SYSTEMS EQUIPMENT ENGINEERING

LINE	WIRING SHEET					
01						
02	<u>Leads to be Removed</u>					
03	<u>From</u>			<u>To</u>		
04	<u>App.</u>	<u>Term.</u>	<u>Color</u>	<u>App.</u>	<u>Term.</u>	
05	REL (B)	14	G	REL (F)	2B	
06	REL (B)	13	G	PLUG	5	
07	REL (D)	6	G	REL (F)	7T	
08	TST JK	5	BL-0	REL (F)	6B	
09	REL (D)	1	BL-0	REL (F)	9T	
10						
11						
12	<u>Leads to be Reconnected</u>					
13	<u>Disc. From</u>		<u>Reconn To</u>		<u>Other End</u>	
14	<u>App.</u>	<u>Term.</u>	<u>App.</u>	<u>Term.</u>	<u>App.</u>	<u>Term.</u>
15	<u>Green</u>					
16	REL (F)	5B	REL (F)	1B	REL (E)	6
17	REL (F)	8B	REL (B)	13	REL (D)	6
18	REL (B)	12	REL (B)	11	REL (D)	2
19						
20						
21	<u>Leads to be Added</u>					
22	<u>From</u>			<u>To</u>		
23	<u>App.</u>	<u>Term.</u>	<u>Color</u>	<u>App.</u>	<u>Term.</u>	
24	REL (C)	3T	G	REL (F)	3T	
25	REL (C)	2T	G	REL (F)	3B	
26	REL (C)	2B	G	PLUG	4	

FIGURE 6

CSLF 952A(01)
WESTERN ELECTRIC COMPANY, INC
SYSTEMS EQUIPMENT ENGINEERING

LINE	STAMPING CHANGES	
01		
02	<u>From</u>	<u>To</u>
03	ED-33015-30 G-5	ED-33013-30 G-11
04	197E Switch	197GP Switch
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FIGURE 7