REPLACEMENT CONTACT SCREW FOR RELAYS HAVING UNUSUAL CONTACT CONDITIONS

1. GENERAL

1.01 This section covers the cases where silver contact screws are recommended for use on certain relays in circuits where heavy contact erosion occurs due to organic vapor activation, where opens occur due to organic deposits, or where shorts occur due to carbon deposit bridging.

1.02 This section is reissued to add SD-68423-01, SD-68424-01, SD-68489-01, SD-68551-01, and SD-68575-01 to Table B and to delete SD-68038-01 and SD-68344-01 from Table A.

1.03 In some cases, mating palladium contacts having contact protection show heavy erosion on the negatively poled contact with very little erosion or build-up on the positively poled contact. This type of contact erosion is a result of organic vapor activation. To correct this condition on polar-type relays, the P-484762 silver contact screw is recommended for the negative contact with a mating palladium contact. The P-484762 silver contact screw is also recommended for the negative contact with a mating palladium contact in cases where organic deposits cause a high incidence of open contact trouble. Also, S-type relays having mating palladium contacts will sometimes accumulate carbonaceous deposits on the contacts. These deposits sometimes bridge the contacts when the gaps are small. In such cases the P-11F001 silver contact screw is recommended with a mating palladium contact. The silver-palladium combination of contacts is referred to as silver negative (Ag—) and palladium positive (Pd+) and is restricted to cases covered in this section. Where there is only slight contact activation from organic vapors, very little if any improvement can be expected from the use of Ag— Pd+ contacts. Furthermore, if the silver contact is used as the positive instead of the negative contact, the contact life may be reduced instead of increased.

1.04 Section 040-267-801 covers the procedures for replacing contact screws on 280-type relays and Section 040-228-801 covers the procedures for replacing contact screws on 206-, 227-, 231-, and 239-type relays. Section 040-514-801 covers the procedures for replacing contact screws on S-type relays.

2. P-484762 (SILVER) CONTACT SCREW

2.01 The following table covers the cases where the P-484762 silver contact screw is recommended for use as the negatively poled contact with a mating palladium (positive) contact. The silver contact screw is identified by the letter S stamped on the head of the screw. These cases are covered with reference to the switching systems in which they occur.

Note: Since all contact screws in the circuits covered in this section are negatively poled, no check need be made for polarity.

TABLE A — POLAR RELAYS

CIRCUIT NO.	TITLE
SD-25550-01	*No. 5 Crossbar System — Marker*
RELAY DESIGN	**CONTACT**
TCK	LEFT
CHT	LEFT
LXP	LEFT
DCT	LEFT & RIGHT
HMT	LEFT
GT	LEFT
SD-26001-01	*No. 5 Crossbar System — Dial Tone Marker*
DCT*	LEFT & RIGHT
HMT*	LEFT & RIGHT
SL*	LEFT & RIGHT
TTO-4*	LEFT & RIGHT
XCS*	RIGHT
XLC*	RIGHT
XLH*	RIGHT
XVHF*	RIGHT

TABLE A — POLAR RELAYS (cont.)

CIRCUIT NO.	TITLE
SD-26002-01	*No. 5 Crossbar System — Completing Marker*
RELAY DESIGN	**CONTACT**
DCT*	LEFT & RIGHT
HMT*	LEFT & RIGHT
SL*	LEFT & RIGHT
TTO-9*	LEFT & RIGHT
AVK*	LEFT & RIGHT
RCKI*	LEFT & RIGHT
TCK*	LEFT & RIGHT
CHT*	LEFT & RIGHT
OST*	LEFT & RIGHT
SLK*	LEFT & RIGHT
XAN*	RIGHT
XCS*	RIGHT
XLC*	RIGHT
XTA*	RIGHT
XFTN*	RIGHT
XFUN*	RIGHT
SD-68388-01	*No. 4A or 4M Toll Switching — System — Marker*
B	LEFT & RIGHT
***SD-95487-01*	*Common Systems — DX Signaling*
R	LEFT
SD-95738-01	*Common Systems — Traffic Usage Recorder*
PG	LEFT & RIGHT

*After replacing the original contact screws with the P-484762 silver contact screws, recode the relay in accordance with the following:

ORIGINAL CODE	NEW CODE
280A	280FY
280AP	280GF
280AK	280FW
280AS	280GC
280BE	280GE
280BG	280GD
280BJ	280GG
280CB	280GA
280FK	280GB

Remove the original code from the relay using KS-19578 L1 trichloroethane and a KS-14666 cloth. Stamp the new code in the same location using the R-2315 numbering and lettering set.

**On circuits wired per issues of SD-95487-01 prior to Issue 6-D, reverse the terminations of leads to contacts 5 and 9 of the R relay.

3. P-11F001 (SILVER) CONTACT SCREW

3.01 The following table covers the cases where the P-11F001 silver contact screw is recommended for use on S-type relays. The silver contact screw is identified by the letter S stamped on the head of the screw. These cases are covered with reference to the switching systems in which they occur.

TABLE B — S-TYPE RELAYS

CIRCUIT NO.	TITLE
SD-68221-01	*4A Toll Switching System — DP Incoming Sender*
RELAY DESIGN	**CONTACT**
SL	FRONT & BACK
SD-68222-01	*4A Toll Switching System — MFP Incoming Sender*
SL	FRONT & BACK
SD-68423-01	*4M Dial Pulse Sender*
SL	FRONT & BACK
SD-68424-01	*4M MF Sender*
SL	FRONT & BACK
SD-68489-01	*4A or 4M Cama Sender Overseas*
SL	FRONT & BACK
SD-68551-01	*4A or 4M Overseas Sender*
SL	FRONT & BACK
SD-68575-01	*4A Crossbar Sender MF*
SL	FRONT & BACK