

PARTS LIST

<u>Nomenclature</u>	<u>Part No.</u>	<u>Qty.</u>
Splice, knife	32445	4
Wire - cond., shielded	#22 AWG	A/R
Capacitor - 5 MFD/50VDC	MTA5DS0 (Mallory)	1
Capacitor - 200MFD/25VDC	MTA200F25 (Mallory)	1
Terminal lug	31882	2

MODIFICATION PROCEDURE

- a. Check all cockpit switches for "OFF" condition.

CAUTION

Pay particular attention to mag switch.

- b. Pull back nipples on battery cables.
- c. Disconnect battery cables by removing wing nuts.
- d. Remove side fairing assemblies, if installed.
- e. Disconnect air induction flexible duct from engine air intake.
- f. Remove lower forward fairing; cover engine air intake opening.
- g. Remove transceiver radio from casing.
- i. Remove existing wire nos. RV61A20 and RV62A20 from #30-06-D relay and splice together. (See figures 1 and 2)
- j. Remove existing wire nos. RV63A20 and RV64A20 from relay and splice together.
- k. Solder two short pieces of insulated wire (about one inch long) to the back side of pins M and F at the amp/power supply connector (MRA 14S-NH/VL). Trim the wires as short as possible allowing only enough to permit soldering of a 200 mfd 25 vdc capacitor between them with the plus side at M. Tie capacitor to wire bundle and protect leads with insulated sleeving.
- l. Solder two short pieces of insulated wire (about one inch long) to the back side of pins L and T at the tuner connector (MRA 20S-NH/VL). Trim the wires as short as possible allowing only enough to permit soldering of a 5 mfd 50 vdc capacitor between them with the plus side of L. Tie capacitor to wire bundle and protect leads with insulated sleeving.

m. Remove existing splice from wire no. RV54A20 (from terminal T of tuner); connect wire to N.C. contact of #30-06-D relay, using #31882 terminal lug.

n. Remove existing splice from wire no. RV54B20 (from terminal 5 of terminal board TB-1); connect wire to N.C. contact of relay, using #31882 terminal lug.

o. Modify receptacle wiring for pilot grip switch as follows:

1. Remove existing wire no. RV51A20 from terminal 1 of terminal board TB-3; remove existing wire no. RV65A20 from terminal 3 of TB-3.
2. Reverse connect above wires, so that wire no. RV51A20 connects to terminal 3 of TB-3, and wire no. RV65A20 connects to terminal 1 of TB-3.

p. Modify receptacle wiring for copilot grip switch as follows:

1. Remove existing wire no. RV51C20 from terminal 1 of terminal board TB-3; remove existing wire no. RV65C20 from terminal 3 of TB-3.
2. Reverse connect above wires, so that wire no. RV51C20 connects to terminal 3 of TB-3, and wire no. RV65C20 connects to terminal 1 of TB-3.

q. Check King radio modification for discrepancies.

r. Install transceiver radio in casing; connect battery cables.

s. Perform operational check of radio for:

1. Adequate intercom and transmit audio.
2. No control tower interference on intercom (if tower is in immediate proximity).

t. Install radio cover on console.

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DATE Nov. 9, 1970
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NOTE

Remove protective cover installed on engine air intake opening, per step f. above.

- u. Install lower forward fairing; install air induction flexible duct to engine air intake opening.
- v. Install side fairing assemblies, if applicable.

WEIGHT & BALANCE DATA

Weight and balance not affected.

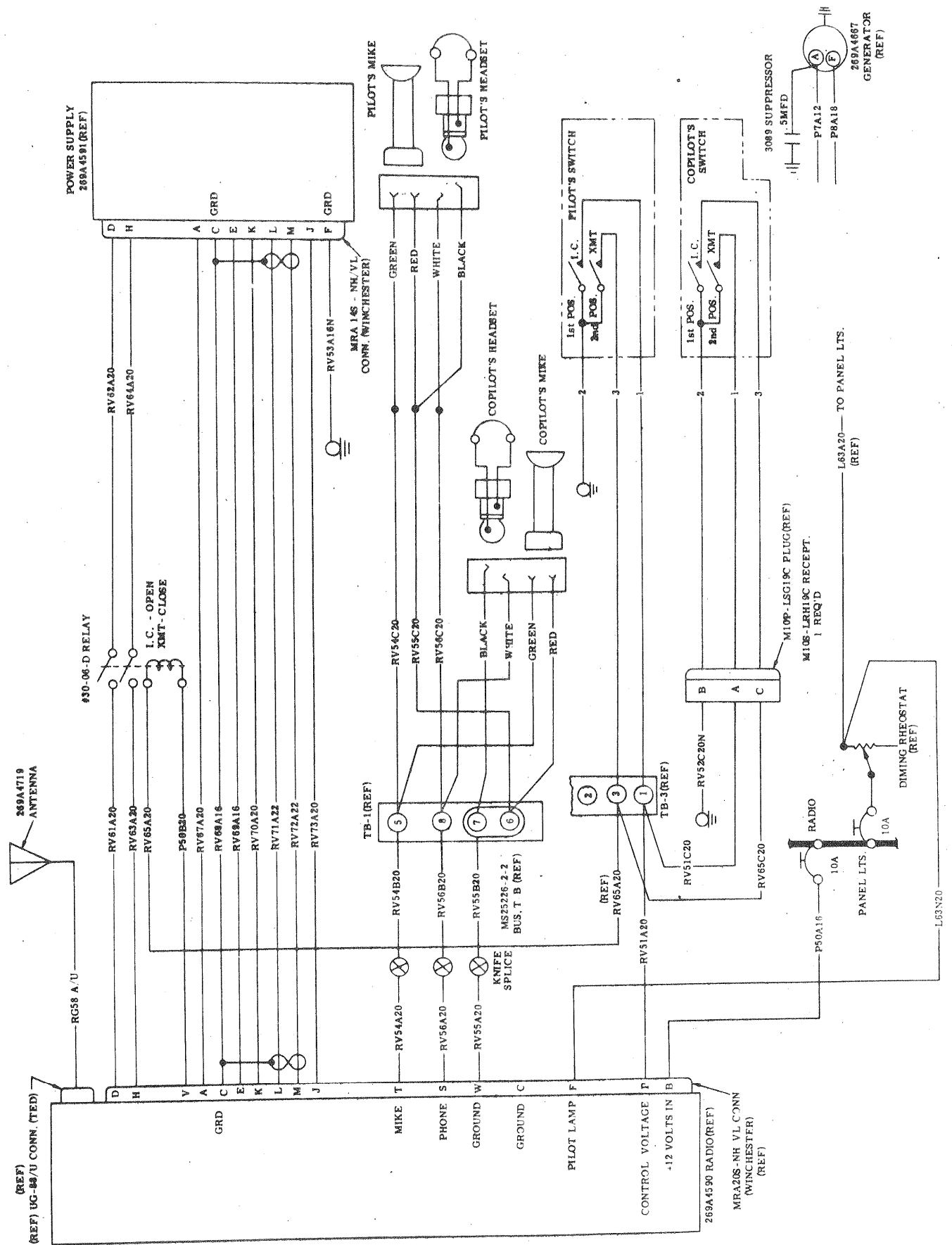


FIGURE 1. KING RADIO ELECTRICAL WIRING DIAGRAM.

