

CIRCUIT DESCRIPTION
SYSTEMS DEVELOPMENT DEPARTMENT

CD-96211-01
Issue 1
Appendix 5-D
Dwg. Issue 6-D

COMMON SYSTEMS
FILTER CIRCUIT
FOR TALKING OR FILAMENT
BATTERY SUPPLY

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Fig. 5 was added for use with pilot
wire regulating master relay cir-
cuits.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3350-AEB-RSW

COMMON SYSTEMS
FILTER CIRCUIT
FOR TALKING OR FILAMENT
BATTERY SUPPLY

CHANGES

B. CHANGES IN APPARATUS

B.1 The code for the C1, C2 and C3
condensers in figure 4 is cor-
rected to read KS-8056 instead of
KS-8506.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3350-MCG-RSW

COMMON SYSTEMS
FILTER CIRCUIT
FOR TALKING OR FILAMENT
BATTERY SUPPLY

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Fig. 4 is added and Fig. 2 rated
"Mfr. Disc." because the alarm
type fuses for filter condensers are to
be mounted on associated fuse panels
where the filter circuit is for fuse
board or relay rack fuse bays.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3350-MCG-RSW

CIRCUIT DESCRIPTION
SYSTEMS DEVELOPMENT DEPARTMENT
PRINTED IN U.S.A.

CD-96211-01
Issue 1
Appendix 2-D
(1 Page) Page 1

COMMON SYSTEMS
FILTER CIRCUIT
FOR TALKING OR FILAMENT
BATTERY SUPPLY

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Circuit note 102 has been rated "Mfr. Disc." and note 104 added to specify that "M" wiring and apparatus is required for filament battery filter circuit for 24 volts only.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3350

MCG)
RSW)IF

COMMON SYSTEMS
FILTER CIRCUIT
FOR TALKING OR FILAMENT
BATTERY SUPPLY

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Multiple strap indications have been added at the ground bus bars in Figs. 1, 2 and 3 and at the battery bus bars in Figs. 1 and 3.
- D.2 Circuit Note 103 formerly read "The leads to retardation coil (CC) shall be for twice the busy hour load through the coil and 8 AWG minimum. These branch leads shall be 5 feet maximum from the signal battery feeder to the filtered battery bus bar."

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332

MCG)
RSW)QW

COMMON SYSTEMS
FILTER CIRCUIT
FOR TALKING OR FILAMENT
BATTERY SUPPLY

1. PURPOSE OF CIRCUIT

- 1.1 To provide a quiet source of battery supply for talking circuits and filament current supply.

2. WORKING LIMITS

- 2.1 None.

3. FUNCTIONS

- 3.1 To provide a filter for eliminating objectionable noise from the battery supply to talking circuits and to the filaments of vacuum tubes.
- 3.2 To protect the filter from excessive current drain in case a filter condenser should break down.
- 3.3 To provide a fuse alarm in case a fuse operates in the circuit to the filter condensers.

4. CONNECTING CIRCUITS

- 4.1 Power battery distributing circuit.
- 4.2 Power discharge circuit.

DESCRIPTION OF OPERATION

5. Through the use of the (CC) retardation coil and the condensers, objectionable noise is eliminated from the battery supply which is used for talking circuits and filament current. The 15-ampere fuses are placed in the circuit to the electrolytic condensers in order to protect the battery supply in case a condenser should break down. An alarm type fuse is connected in parallel with each 15-ampere fuse and this fuse will operate if the larger fuse operates giving an alarm indication of the blown fuse condition.

DEPT. 332

BELL TELEPHONE LABORATORIES, INC.

MCG)
RSW) LE