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TROUBLE SHOOTING

This sub-section is intended as a guide to assist in trouble shooting installed instruments. Listed below are some of the many faulty conditions, which may be experienced in a telephone instrument, and their possible causes and remedies.

Whether faulty instruments are repaired on site or replaced and returned to the shop for repair, will depend upon the individual company practice. In the latter case it is recommended that each removed

instrument be tagged to indicate the symptoms of the trouble.

Instruments repaired in the shop should be given a thorough check for other possible faults before they are returned to stock or re-installed. It is not an uncommon situation for an instrument to develop more than one fault at a time, especially if the trouble is due to a lightning surge or severe mechanical shock.

1 DIALING TROUBLES

POSSIBLE TROUBLE CORRECTIVE ACTION 1.1 NO DIAL TONE a: Open in mounting or Replace cord. handset cord. Replace receiver b: Open or shorted receiver unit. unit. c: Dial pulse contacts Adjust or replace open or off-normal dial. contacts closed. d: Open winding in Replace network. network coils. e: Cradle switch contacts Check for misplaced plastic cover. Adjust not functioning correctly. contacts or replace switch assembly.

1.2 CANNOT BREAK DIAL TONE a: Dial pulse contacts

not opening.

b:	Filter or ringer capacitor shorted.
C:	Reversed polarity on T-T dial (new installat

Adjust or replace dial.

Replace network or ringer capacitor.

Check connections against telephone circuit label

1.3 RECEIVING WRONG NUMBERS a: Dial pulse contacts

b:	Incorrect dial speed
	(For most conditions,
	dial speed must be
	damable in orror

Adjust dial speed or replace dial.

Adjust contacts or

replace dial.

considerably in error to cause trouble).

wrongly functioning.

c: Leaky filter or ringer capacitor. Replace network or ringer capacitor.

1.4 DIAL CLICKS IN RECEIVER

a: Dial off-normal Adjust contacts or contacts not closing. replace dial.

2 TRANSMISSION TROUBLES

POSSIBLE TROUBLE	CORRECTIVE	ACTION
CANNOT HEAR		

a: Open receiver unit or Replace receiver unit handset cord. or handset cord.

b: Dial off-normal contacts not opening.

Adjust contacts or replace dial.

c: Open winding in

Replace network.

d: Cradle switch contacts not opening correctly.

Check for misplaced plastic cover. Adjust contacts or replace switch assembly.

e: Shorted receiver or receiver varistor.

Replace receiver

2.2 OTHER PARTY CANNOT HEAR

a: Shorted transmitter unit or handset cord. Replace transmitter unit or handset cord.

b: Shorted varistor in network.

Replace network.

2.3 HIGH SIDETONE LEVEL

a: Defective balancing in network.

Replace network.

2.4 DISTORTION AND/OR CLICKS

a: Faulty receiver unit or receiver varistor. Replace receiver unit.

b: Faulty transmitter unit.

Replace transmitter

c: Loose connections.

Retighten connections as necessary.

2.5 RADIO INTERFERENCE

a: Pick up of local radio station in receiver.

Install 0.02 mfd., suppression capacitor (type 75559) between network terminals L2

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Telecommunications

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3 RINGING TROUBLES

POSSIBLE TROUBLE CORRECTIVE ACTION POSSIBLE TROUBLE CORRECTIVE ACTION 3.1 NO RING 3.4 RINGS WHEN OTHER PARTY CALLED a: Wrong ringer type. Check ringer type and a: Wrong ringer. Replace with correct (Most likely to be replace if incorrect. type. observed on new installation). b: Wrong ringer or line Check connections and connections. remake as necessary. b: Ringer disconnected Check ringer wiring. or wrongly wired. Correct as necessary. c: Incorrect ringing Check ringing frequency. generator frequency. c: Ringer wired for Rewire for ringer silencing. d: Frequency selective operation. Retune or replace ringer incorrectly ringer. d: No ground (party Connect ground per tuned. line) connection. local practices. e: Wrong capacitor for Replace capacitor or e: Control wheel (biased Reset wheel to ring frequency selective complete ringer ringer) in cut-off position and disable ringer. assembly. position. cut-off position if desired. 3.5 UNABLE TO TRIP RINGING f: Obstruction between Remove obstruction magnet and armature and readjust ringer a: Open dial pulse Adjust contacts or or gongs and clapper. if necessary. contacts. replace dial. b: Open coil winding or g: Open ringer coil. Replace ringer. Replace network. varistor in network. Replace network or h: Open ringer capacitor. ringer capacitor or bridge from A to K c: Loose or open Check connections and on network with .047 connection. remake as necessary. mfd capacitor. 3.2 VOLUME TOO HIGH OR TOO LOW d: Cradle switch contacts Check for misplaced not making. plastic cover. Adjust a: Control wheel in wrong Reset wheel. Instruct contacts or replace switch assembly. position. customer if required. b: One or both gongs Tighten mounting screws and readjust. 3.6 TRIPS RING, CANNOT CONVERSE loose. c: Obstruction between Remove obstruction a: Open handset cord, Replace faulty item. gongs and clapper or and readjust ringer transmitter or receiver unit. against armature or if necessary clapper stem. b: Dial off-normal Readjust dial contacts or replace dial. d: Telephone or extension Relocate telephone or contacts not open. ringer on sound extension ringer in absorbing material. accordance with wishes c: Receiver 'shorting' Check for misplaced plastic cover. Adjust of customer. contacts of cradle contacts or replace switch not open. switch assembly. 3.3 BELL TAPS WHILE DIALING d: Faulty coil winding Replace network. Check and reconnect or open capacitors a: Wrongly connected in network. ringer. as necessary. b: Bias spring in low Check ringer and set bias spring in high notch (biased ringer). notch if necessary.

Refer to Section M2C.