

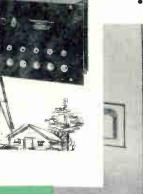
# PACKAGED REMOTE CONTROL

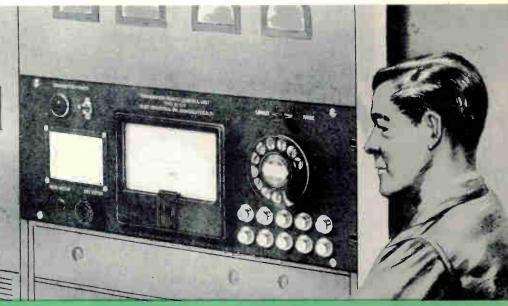
For Commercial Broadcast Transmitters

AM - FM

positive transmitter

... from any convenient control point





#### **RUST SYSTEM:**

=

- Meets all FCC requirements
- A complete system, tailored to your needs
- Full control provided for all desired adjustments
- Ample reserve capacity for future requirements

the rust industrial

601 WILLOW STREET



company, inc.

MANCHESTER N H

#### SIMPLE · ECONOMICAL · DEPENDABLE

#### RUST SYSTEM PAYS FOR ITSELF IN SHORT ORDER!

Rust Remote Control lets you situate your studio and transmitter in ideal sites for each . . . the studio in the business center . . . the transmitter where real estate costs are low and transmitting conditions ideal. In fact, in past installations, the Rust System has proved it can pay for itself in as little as ten weeks!

Rust Remote Control assures both more efficient station operation and more effective use of personnel. No longer need an operator be on duty at the transmitter. He can now be used to better advantage in more productive work.







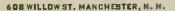
Standard Monitor Preamplifier Type RI-108-14

# All components fully guaranteed

All components are of the highest quality. They are fully guaranteed for one year. The design is simple and functional. No vacuum tubes are used except in the RF (monitor) amplifier.



#### RUST INDUSTRIAL CO.





# BEFORE YOU BUY A REMOTE CONTROL SYSTEM -- INVESTIGATE! COMPARE!



# YOU SHOULD KNOW THE FOLLOWING FACTS ABOUT THE RUST SYSTEM:

- ... The RUST SYSTEM is PROVEN in operation! 21/2 years actual commercial use. Already Installed in dozens of stations... actually DOING the job!
- ... When you buy RUST there are no "if's" or "buts". You GET DELIVERY in a month or less. When you buy RUST you are following the lead of Collins Radio, Columbia Broadcasting System, and some of the nation's top station operators who have compared and bought RUST:
- ... Compare! RUST alone reads up to 9 meters plus monitor meters performs 11 tuning or control operations. Can be tailor-made to what YOU want and are not a preconceived inflexible idea of a manufacturer. You get what you pay for and you pay for no more.
- ...Dual operation? RUST can easily control 2 transmitters...sometimes even 3, using its spare capacity. This can save an AM-FM operator real money.
- ...RUST can be installed by the station. Just follow the detailed manual. Or expert supervision can be made immediately available on a per diem basis.
- \*\*RUST is compact! Years of design experience enable RUST to economize on space. The control unit is only 8-3/4" high and mounts in any rack. It plugs into 115 volts, has 4 terminals connected to the phone lines. One voltage regulator tube, otherwise no vacuum tubes to break down or wear out.
- ... Includes preamplifier to operate both monitors at the control point. It's as compact and highly efficient as the control and transmitter units. And it's easily installed, too.
- ...RUST is flexible! Will remotely control any transmitter...any vintage. More control, more compactness, more versatility, no more money!
- ...It's simple! Uses DC circuits. No audio tones that require phone lines costing up to 50% more per month...for life!
- ...RUST is economical, too! The total equipment for an average installation costs only \$2475. A dual installation (AM-FM, AM-Auxiliary, etc.) costs about \$3350. using full capacity.

RUST REMOTE CONTROL SYSTEMS GIVE YOU MORE ... FOR NO MORE MONEY!!

#### General Specifications -- RI-108 Remote Control System

#### RI-108-0 Studio Unit

Mounting---- 19" relay rack - RMA slotting Overall size- 19" wide by 7" high by 9" deep

Power---- 100-130 volts 50/60 cycle, 65 watts

INDUSTRIAL CO

#### RI-108-1 Transmitter Unit

Mounting---- 19" relay rack - RMA slotting Overall size- 19" wide by 8-3/4" high by 11" deep Power----- 100-130 volts 50/60 cycle, 25 watts

#### RI-108-14 (AM) and RI-108-15 (FM) Monitor Preamplifier Unit

Mounting---- 19" relay rack - RMA slotting
Overall size- 19" wide by 8-3/4" high by 10" deep
Power----- 100-130 volts 60 cycle, 75 watts
Tuning---- factory adjusted to customers frequency
Output power- approximately 2 watts (sufficient to
operate any commercial FM Monitor or
AM Frequency and Modulation Monitor)

Input----- Small antenna as required

#### Miscellaneous Units

The system includes a variety of standardized auxiliary units operated by the Transmitter Unit and mounted within the customer's transmitter or externally, including the following:

Antenna current unit Latching relay unit Momentary relay unit Tower lighting unit AC potential unit AC current unit DC potential unit DC current unit

Motor driven rotary actuator, reversible -- with built in overtravel clutch. Used for tuning and other applications requiring rotation of a shaft.

Motor driven linear actuator, reversible -- with built in overtravel clutch. Used for operating and resetting Heinemann type overload circuit breakers and other purposes.

Auxiliary meter panel -- For remote indication of frequency and/or modulation monitor meters. (Not recommended except in special cases when monitors must remain at bransmitter).

#### Telephone Line Requirements

Two telephone circuits are required between transmitter and remote control unit. The metering circuit requires a normal telephone pair but the control circuit may be either a normal pair, a simplex (ground return) circuit or a "phantom" circuit. Both telephone circuits must provide a DC path and thus must be free of amplifiers or transformers. The total registance of each pair should not exceed 2000 ohms DC.

Form 108A, Sheet 2 of 2.

#### WHAT STATIONS NEED RUST REMOTE CONTROL SYSTEMS?

A new station can locate its transmitter on "cheap land" at an ideal technical site with a very small transmitter house at the tower base. Studios and offices can be centrally located "downtown", a great convenience for the staff and for efficient business operation, without the usual higher operating cost of a two-location station.

Established Stations with separate transmitter buildings can eliminate the duplication of technicians. Other stations in compromise combination buildings may often relocate either studio or transmitter for more efficient operation.

#### WHAT DOES THE FCC REQUIRE FOR REMOTE CONTROL OPERATION?

The broadcast licensee must file a routine application for a remote control construction permit. The minimum FCC requirements are that the remote control system shall accurately indicate final stage plate current, final stage plate voltage, antenna current, tower light operation, frequency deviation and percentage modulation. "Fail-safe" means must also be provided to turn the transmitter on and off and adjust the ouput power.

# HOW DOES THE RUST SYSTEM INDICATE FREQUENCY DEVIATION AND MODULATION PERCENTAGE AT THE REMOTE CONTROL POINT:

A special radio-frequency amplifier is provided to operate the station's frequency and modulation monitors off-the-air from a small antenna at the remote control point. The standard approved monitors are not modified in any way.

#### DOES THE RUST SYSTEM MEET ALL FCC REQUIREMENTS?

In addition to meeting all FCC requirements, the Rust System can provide five extra meter readings and six additional control operations for any of the following purposes----tune the final stage, read and adjust line voltage, read and adjust filament voltage, Conelrad switching, control an emergency transmitter, simultaneously control an AM and FM transmitter at the same site, reset overload breakers, operate any power contactor; read any pressure, temperature or electrical value; turn any shaft and indicate its angular position, etc. This extra system capacity provides more protection for your transmitter, less chance of loss of broadcast time, and room for future needs.

#### WILL THE TWO UNITS PICTURED IN YOUR RECENT ADVERTISEMENTS DO ALL THESE JOBS?

The basic units, types RI-108-0 and RI-108-1 have the switching capacity to read nine meters and simultaneously perform nine controlling operations. Each of the eighteen possible operations will require a small additional auxiliary unit such as a tuning-motor, power contactor or metering element connected to the transmitter. The cost of the complete installation will vary with the number and type of auxiliary elements desired. The two major units, which represent a substantial part of the total equipment cost, are identical for every installation, so the system has a high degree of flexibility and can be readily modified in the field, or even moved to a new transmitter with a minimum of cost and field labor.

#### IS THE SYSTEM COMPLICATED?

The design is simple and functional. No vacuum tubes are used except in the RF (monitor) amplifier. All relays and components are of the highest quality. The reliability equals that of everyday dial telephone equipment. Anyone can easily learn to operate the system.

#### THE PROPERTY OF THE

the binds Sust manote control system consists of two synchronized units commented by two telephone lines. Senote Control Whit Melbird is mounted at the transmission. The control ment is capable of controlling any as up in mounted at the mean transmitter. Do to mine metap results then be obtained and ten their or switching operations performed to simply disting the desired Describe. Dransmitter adjustment is messential simply disting the desired remains of the neglection. Transmitter adjustment is messential simply meaning phenyling that the neglection of the property of the service.

Institute that has be connected to any one of a master of accessing hasing notice or contactors used for transmitter/tuning, indicating state variable, paste current, encount current, open light suggest, line voltage, frequency destailed or manufactor percentage. In addition, it is resulting to control an energency transmitter, control on the and the transmitter fluction of the suggest of the control of the suggest of the control of the

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91-108-15	EDS INCOMPRENTY RAZES UNISE
HI-106-19	BIG. Antiagree
H1-108-70	Tolling 1007 Adapter

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## DESCRIPTION OF WINES

# A. Transmitter News to Tentrel Outs FI-108-0

remarks Compared Unit #1-10000 in a non-sect unit designed for motoring in a standard LOT mack panel. The unit operates from a 100/100 wait 50/60 ope. source of supply. Forer consumption is approximately of waits. Its electrical directive constants of a metaple; circult, control of config a voltage regulated circult was posses because of real and an unrequisited.

one-half wave nower supply circuit.

A telephone type dial is nounted on the front panel to select and place in operation those circuits necessary to operate the desired function. Dialing a specific number selects one of ten indicator lamps to show which circuit has been dialed. An indicator meter is also mounted on the front banel to record data required by FSC and give a visual indication of transmitter adjustments, filement, plate and antenna voltages and currents, in addition to tower limit control, frequency deviation and modulation percentage. A lower-Heise switch is utilized to turn the transmitter meters in a plockwise or counterclockwise limit to retain a an on-off switch. A real pilot lamp limits when it welfers is smalled to the unit.

# b. Train tates tentral finit F1-105-1

Control wit HI-105-1 is designed for requiring on a standard 10" reads pench. The unit operates from a 100/130 wolt 50/60 era source of supply. Fower sensoreties is sparostrately 25 water. Its electrical alreads consist of a motoring signify control signific, and an unregulated full-wave mover supply.

The Ri-10 led is commented to the transmitter control election which, in turn, are connected with the primite via telephone.

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# OTHER OFFERSAL AND STOCK AND DESCRIPTION

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Gentral Deicins Soulcount

Geneland Switching

Switching and Woll Control of smertersy Transmitter

Indicate Standing Nave Ranto

Adjust Line or Filement Voltage

Control AF and WF Transmitter at Same Site

Bend Any Pressure, Temperature or Electrical Value

## HO FETT MOE DATA

# RI-108-0 Studio Unit

#### H1-155-1 Proteinst ter Shift

#### THEORY OF DESIGNATION

# A THORN METERS REMOVE SOME OF THEIR RE-105-0

#### as homer danuly

A.S. input to the HI-192-9 is applied to the orienty winding of legistics bransformer I-1 through a 3 aspect fuse F-2, and the primary winding of isolation transformer I-2 through a 3 ampare fuse H-2. Intention rectifier Y-1 is connected in a voltage regulated helf-wave restifies strongs. Voltage regulation is obtained by the use of voltage regulator V-1, a type OA3 voltage regulator. Capacitors U-1 and H-2 are the regulated nower supply filter capacitors. The output of stellar rectifies V-2 is utilized as the energizing voltage for the stepping system.

## :, Voltage Divider and Salanter

through a voltage divider network composed of resistors R-2 through p-7. The voltage divider is tacqued down at three different positions to provide relat. Insert and pulse voltages of 40 volta. 20 volts and 10 volta, respectively, between the positive control line LJ and the negative control line ii., when the Reise-Lower switch 5-2 is moved.

Therefore diode '-3 is commented in an "enti-hunt" circuit to prevent any surpost from returning through the voltage divider cloudt when switch 1-2 is moved.

#### o'. To Imphone Time 5-3

Telaphone diel 3-3 interpoits the pulse voltages with a number of birth-speed inculses corresponding to the number dieled.

#### INSTALLATION

#### L. Thomaklas

The BI-10%-0 and BI-10%-1 remote control units are nached in a simple wooden box. To bemove the units proceed as follows:

Step 1. Remove the box of the box using an ordinary

Step 2. To remove the units locate and remove the word screws apporting the units to the box.

Step 3. Inspect the units assembling and note that the equipment has not been demanded during shipment.

all mixthary occassory units are uncited in a somewite section box. These units are unpacked in the same manner as the st-108-2 and NE-108-1 units.

#### 2. Freitminary Regular-narts

#### A. Fower

The HI-100-0 and HI-100-1 units operate from a 115 welt, at one, attack phase source of supply:

#### L. Pelephone Lines

Two telephone circuits are required between the transmitter and remote control units. The metering circuit requires a morest relephone pair but the control circuit may be either a normal mair, a simplex (eround return) circuit or a phantom circuit. built to to more of annihilters on transformers. The total resistance of annihilters on transformers. The total resistance of an order on collines exceed 4000 signs 2, 5;

#### c. Result Selector Quarter

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#### tic R1-108-1

relevance line connections to the RT-108-1 are

the on the four connector terminal board located at the

rear of the main. Facing the rear of the unit make the

commetters in the following "Suner:

- (3) Comment the qualities metering line in to together I (pending from left to right).
- (2) Connect the negative matering line 12 to terminal 2.
- (3) Commen the positive control line L3 to
- (a) Comment the mention control line in to

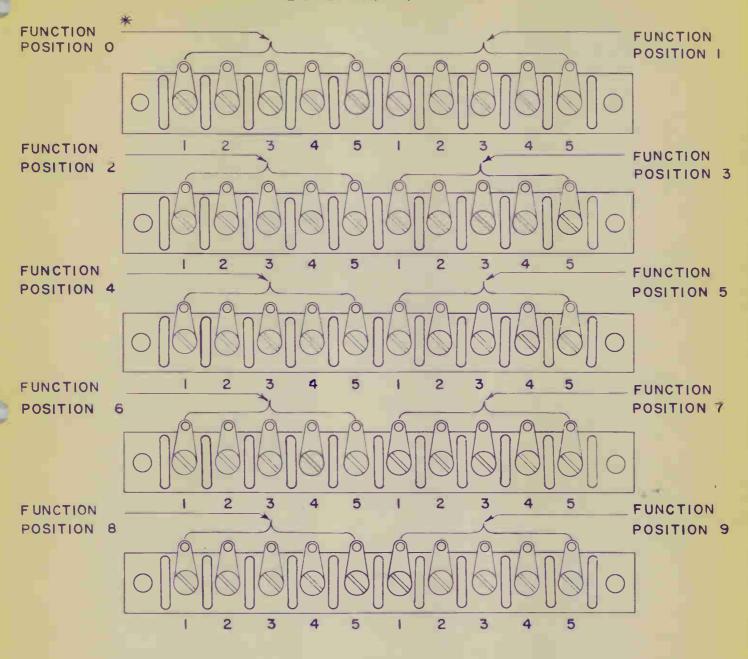
#### PERCHANT BOARD COMPORTED

Pive terminal veryes, each naving II commuters are nounted at the poer of the unit. The terminal boards are divided into the sections, each constating of five occupators.

Finding the respect the unit functional position of sec Time -6-, starts at the top left corner and continues for the commentars. The reselling functional positions continues for the commentars. The reselling functional positions continues to make the first position of the position of reading from left to right, with position of at the bottom right hand end.

#### FIGURE 6, FUNCTIONAL POSITION LOCATIONS

TERMINAL BOARD
REAR OF UNIT RI-108-1



TERMINAL NO.1 — PLUS METERING LINE
TERMINAL NO.2 — MINUS METERING LINE
TERMINAL NO.3 — RAISE LINE
TERMINAL NO.4 — LOWER LINE
TERMINAL NO.5 — COMMON LINE

\* TERMINALS NOS. 1, 2 - FAIL SAFE RELAY CONTACTS
TERMINAL NO. 5 - POWER SUPPLY HIGH VOLTAGE

#### OFFICE OF S

Normal operation of the MI-105 remain scatteral equipment is accommished by manua of the Trent would country control on the Resets Control On't HI-105-II.

# t. Johnsola

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throw touris switch stillies to connect A.C. forer into the W-111-0. I recontact the should lead to with the source to the un scatter.

## S. Helsmallower

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#### St. Int. letters.

pris something and it must be notified a steriored operation to the total the position of the production of the producti

#### G. Rend Meter

This is a push butter exited which is used to sometime the D.C. of would to the front-penal inclosures mater.

#### e. Tulenhone Diel

The telephone High is willised to select and place trito operation those circuits necessary to operate a perticular function.

#### 2. operation

SLOTE.

Before disting any particular function, it is necessary to dist it in order to symphosize the SI-100-0 unit at the studio and the RI-108-I unit at the transmitter. A chart is mounted or the front-panel Histing those functions symilable and their position on the dist.

## Step 1.

light. The transmitter filements will light subconstically unless the transmitter is equipped with Reinement Circuit brankers.

#### Step 2.

Head Neter setten and rend the transmitter filament voltage on the front-menel meter. If the transmitter is conform with Mathemann election breaker: "It will be necessary to not these at ON by holding the heise-lower switch in the raise position for several seconds.

#### Sten 3.

Diel I, meter collimnte position. Frees Read-Meter exitab and adjust the Set Meter control for full-analy deflection on the meter.

#### Step 1.

for transmitter time delay switches to trin. Diel 3 and then diel plate on-OPP position. Set the Helse-Lawer switch at Helse to apply plate voltage to the transmitter. Press the Send Meter switch to read plate woltage.

## Strep 5.

the Read-Reter and to be read plate correct and simultaneously adjust the plate tuning by actuating the Raise-Lover switch.

#### Sten 6.

Dial o and then dial the output counting position.

Press the Head Meter switch to read anterna current and simultaneously adjust the output counting by moving the Heise-Lower switch.

#### Step 7.

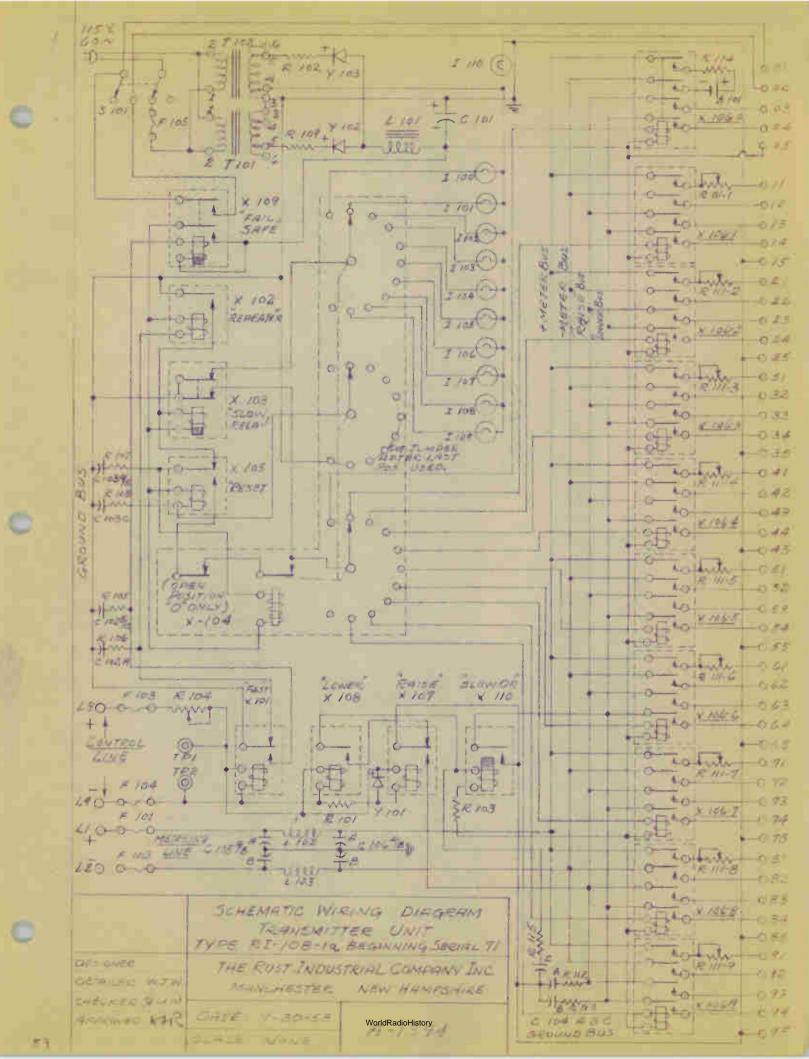
piel O. Diel tower light position. Tower lights may
now be lighted by setting the Reise-Lower switch at Reise or turnedoff by setting the Reise-Lower switch at lower. Press Head Meter
switch. Noter will indicate tower light current.

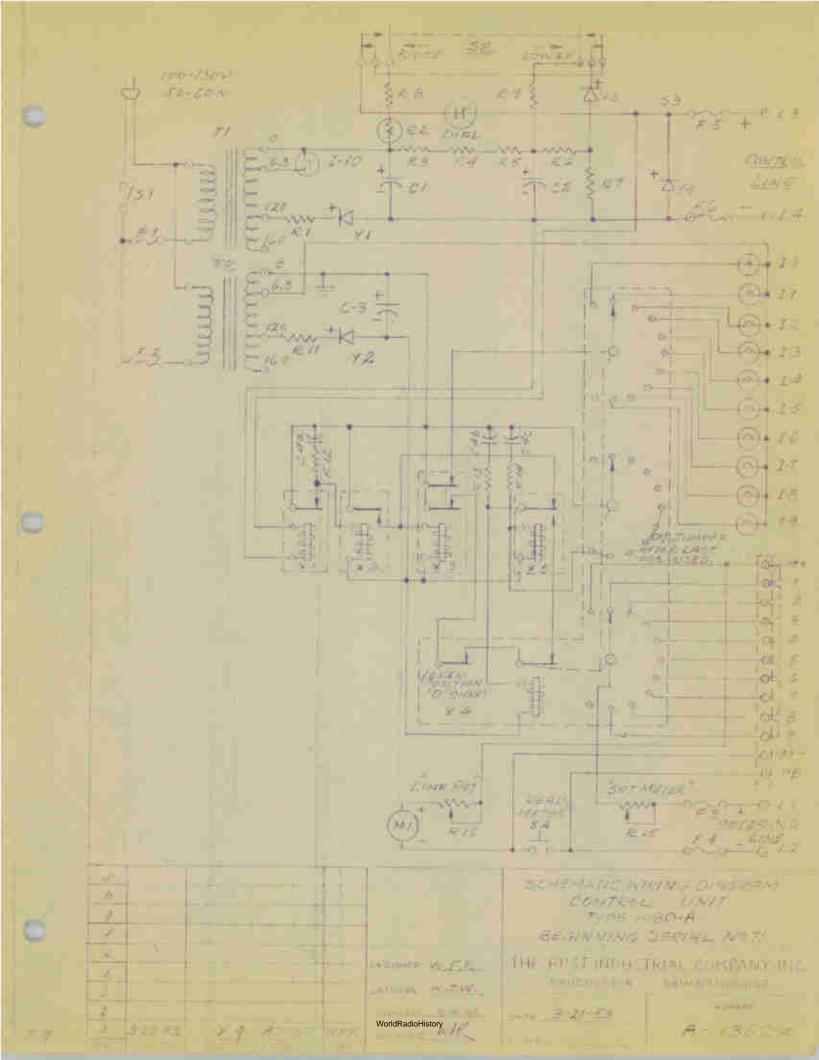
## Step B.

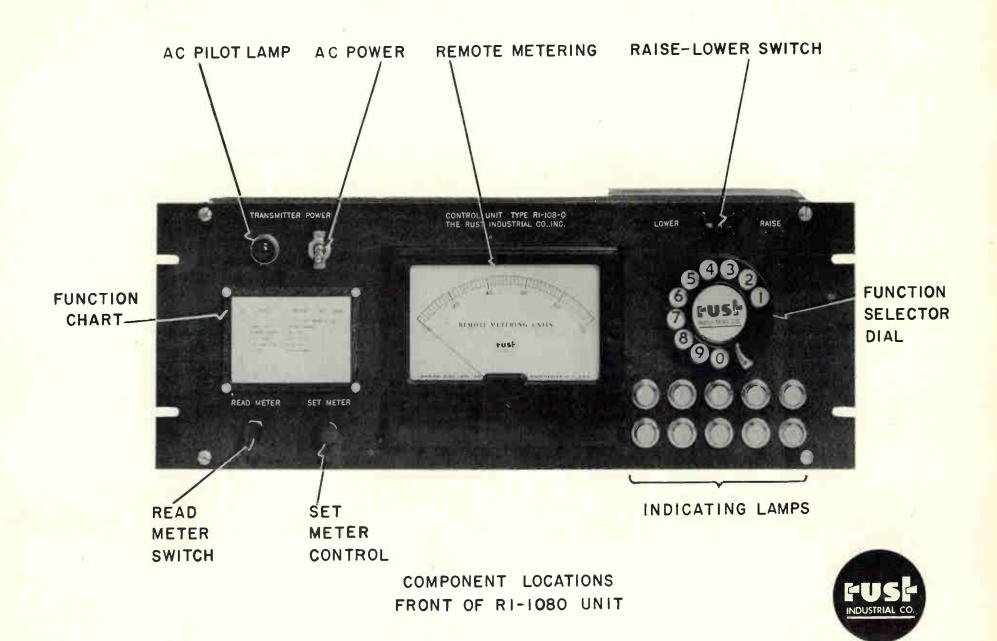
To turn the transmitter off, diel 0 and then diel the plate ON-OFF position. Set the Heise-Lower switch at Dower. Depress Read Meter switch and note that plate voltage is off.

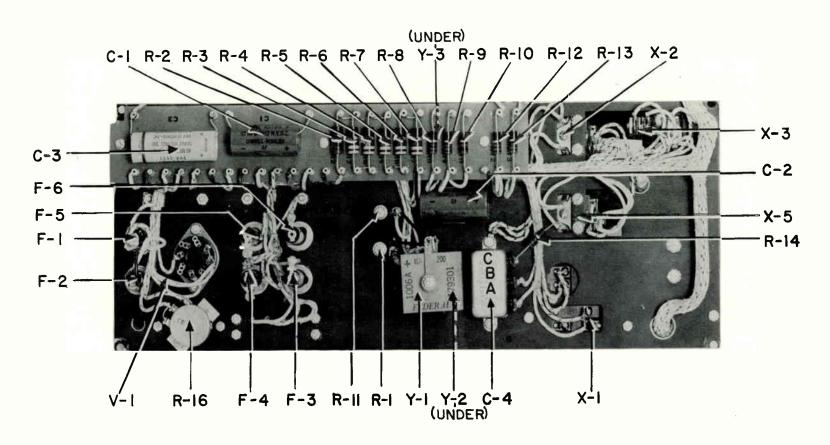
# Step 9.

To turn off the filement power, Diel D, then diel the filement voltage position. Set the aid, power switch on the RI-108-D at DWP, Hed milet light will so out. Depress the Read Meter switch end note that the filement voltage is ogg.



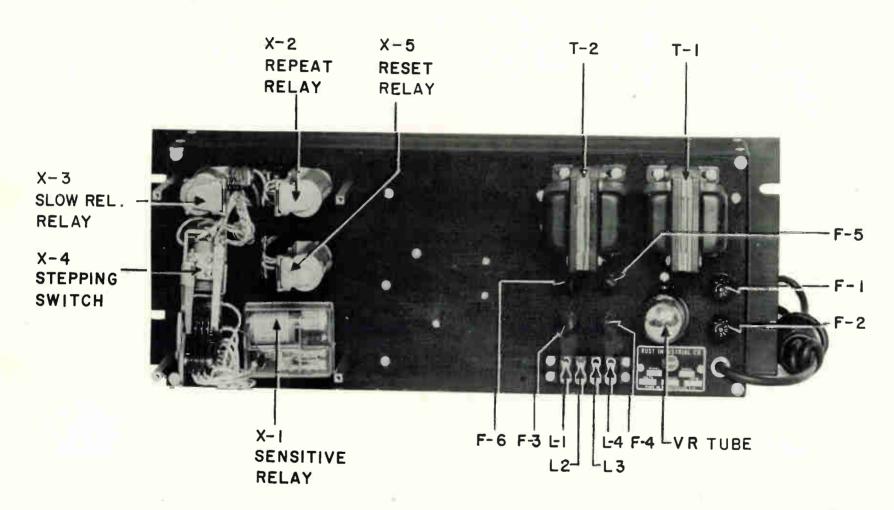






COMPONENT LOCATIONS
INSIDE REAR CHASSIS OF RI-1080 UNIT





COMPONENT LOCATIONS
REAR OF RI-1080 UNIT







# it meets all FCC requirements

Rust System meets FCC Requirements as follows:

Accurately indicates final stage plate current, final stage plate voltage, antenna current, tower light operation, frequency deviation and percentage rodulation. Reliably turns the transmitter on and off and adjusts output power. Any failure of the system immediately removes all power from the transmitter.

# ..... and then some!

Plus meeting FCC requirements, Rust System provides extra meter readings and extra control operations for the following purposes: Tune the final stage, read and adjust line or filament voltage, switch program lines, Conelrad switching, control an emergency transmitter, simultaneously control an AM and FM transmitter at the same site, reset overload breakers, operate any power contactor, read any pressure, temperature or electrical value, turn any shaft and indicate its angular position, etc.

IT'S SIMPLE, EASY TO OPERATE . . . Anyone can learn to operate Rust Remote Control. The Rust System includes two basic synchronized units, one (Type RI-108-1) at the transmitter and another (Type RI-108-0) at the control point, connected by two ordinary telephone lines. A standardized radio-frequency amplifier is available to operate the station's frequency and modulation monitors off-the-air from a small antenna at the remote control point.

ELEVEN METER READINGS can be made and eleven operations can be controlled by simply dialing desired functions. (For certain operations, small auxiliary tuning motors, power contactors or metering elements are necessary. They are precision engineered by Rust and stocked to meet all normal requirements.)

#### NOW...YOU CAN ADJUST THE TRANSMITTER WHILE YOU CHECK IT!

Rust System gives you more than meter readings, it also:

- Permits transmitter adjustments to be made remotely while simultaneously observing the effect of these adjustments.
- Protects valuable transmitter and tubes by allowing immediate correction of troubles.
- Minimizes the chance of lost air time.
- Eliminates needless trips for transmitter adjustment.

#### RUST SYSTEM

#### s pecifications

DECORPTION	DATING	TVDE
DESCRIPTION	RATING	TYPE
Control Unit	Standard RTMA rack slotting Size — 19" wide by 7" high by 9" deep 100-130 volts — 60 cycle — 65 watts	RI-108-0
Transmitter Unit	Standard RTMA rack slotting Size — 19" wide by 834" high by 10" deep 100-130 volts — 60 cycle — 25 watts	RI-108-1
AM Monitor Pre-amplifier	Standard RTMA rack slotting Size 19" wide by 834" high by 10" deep 100-130 volts — 60 cycle — 75 watts Factory adjusted to customer's frequency Output — 2 watts or more Input — antenna as required	RI-108-14
FM Monitor Pre-amplifier	Standard RTMA rack slotting Size 19" wide by 834" high by 10" deep 100-130 volts — 60 cycle — 75 watts Factory adjusted to customer's frequency Output — 2 watts or more Input — antenna as required	RI-108-15
Antenna Current Metering	Standard RTMA rack slotting Size 19" wide by 83/4" high by 10" deep 100-130 volts — 60 cycle — 75 watts Factory adjusted to customer's frequency Output — 2 watts or more Input — antenna as required	RI-108-3
AC Potential Metering	115/230 volts — 60 cycles	RI-108-6
AC Current Metering	5-20 amper <mark>es —</mark> 60 cycles	RI-108-7
DC Potential Metering	250-2000 volts DC	RI-108-8A
Range Extension Metering	2250-4000 volts DC	RI-108-8B
DC Current Metering	1 MA DC	RI- <mark>10</mark> 8-8C
DC Current Metering	100-300 MA DC	RI-108 <mark>-9A</mark>
DC Current Metering	300-600 MA DC	RI-108 9B
DC Current Metering	600-1200 MA DC	RI-108-9C
Tower Light Metering and Control	4-20 amperes — 115 v — 60 cycles	RI-108-5
Latching Relay - D.P.D.T.	10 amperes contact rating	RI-108-4A
Latching Relay - D.P.D.T.	25 amperes contact rating	RI-108-4B
Dual Momentary Relay S.P.D.T.	10 amperes contact	RI- <mark>108</mark> -18
Rotary Motor Actuator	3 RPM — 115 v — 60 cycles 7 lb. inches rated torque 1/4 diameter output shaft Built in protective clutch	RI-108-10
Linear Motor Actuator	2 inch travel standard 18 lbs. rated force 115 v — 60 cycles Built in protective clutch	RI-108-11

# TELEPHONE LINE REQUIREMENTS

Two telephone circuits are required between transmitter and remote control unit. The metering circuit requires a normal telephone pair isolated from ground. The control circuit may be either a normal pair, a simplex (ground return) circuit or a "phantom" circuit. Both telephone circuits must provide a DC path not to exceed 2000 ohms DC and must be free of amplifiers or transformers.

# ORDERING AND PRICE INFORMATION

Sold as individual components or on completely engineered and installed basis including any necessary transmitter modifications. Equipment in current production and most units available from stock. Quotations for individual components or a complete system gladly furnished upon receipt of necessary information.

Write, wire or phone for further details.

the rust industrial



company, inc.

MANCHESTER, N. H.