

# HUDSON



## Foot - Control Radio

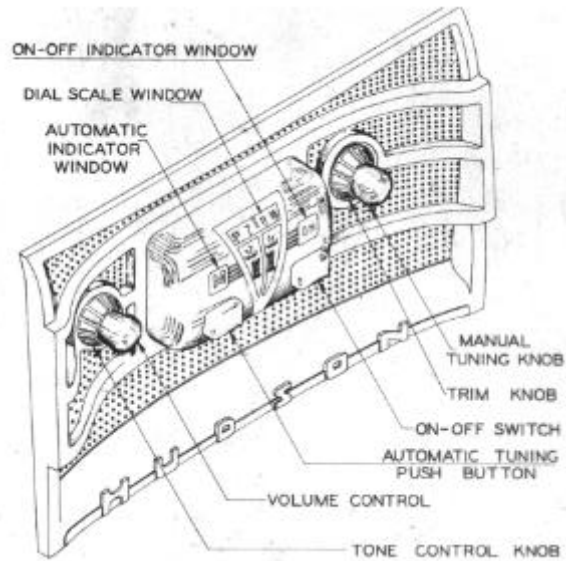
### OWNERS MANUAL

**D B 4 7**

INSTALLATION AND OPERATING  
INSTRUCTIONS

**HUDSON MOTOR CAR CO.**  
DETROIT, MICH., U.S.A

## OPERATING INSTRUCTIONS



This radio incorporates the new Hudson Automatic Touch Tuning. The purpose and position of each control is shown in (Fig. 1)

### To Turn Radio On

Press push button on right side below ON-OFF indicator window and allow receiver to reach operating temperature. (Approximately 20 seconds.)

### Manual Tuning

1. Press the automatic tuning push button on the left side beneath automatic indicator window several times or until the letter "M" appears in the automatic indicator window.
2. Pull manual tuning (right hand) control knob outward and turn to tune in desired stations. Tune to exact frequency for the best tone quality.

### Volume

Adjust left hand control knob for desired volume.

### Tone Control

The tone control is located directly behind the volume control knob (Fig. 1). Rotating this control to the right or left will change the tone of the receiver. The treble position is useful in overcoming wind, noise, etc. when driving, while the bass position brings out the full mellow tones of musical programs. With the tone control set midway, the full tonal range is obtained. Turning to the right will emphasize the high notes, while tuning to left will emphasize the bass notes.

## Automatic Tuning

There are five automatic tuning positions which may be adjusted to five desired stations. If these positions have not been previously adjusted proceed as follows:

1. Press the automatic tuning push button (on the left side) until Number 1 appears in the automatic indicator window.
2. Pull the manual tuning knob OUTWARD to engage the automatic mechanism.
3. Select the station desired and tune to its frequency by turning the tuning knob. Tune very carefully for clearest reception.

**CAUTION: DO NOT ATTEMPT TO FORCE THE KNOB IN.** The knob will automatically return to the "IN" position when the automatic tuning push button or the foot switch is operated.

4. Press the automatic tuning push button, pull manual tuning knob outward, and tune in station desired for No. 2 position. Use the same procedure for positions No. 3, 4 and 5.

When the five automatic positions have been adjusted to the five desired stations as instructed, it is only necessary to press the AUTOMATIC button to return to MANUAL tuning, or to any one of the stations selected on the Automatic.

## Foot Control

The Foot Control provides a convenient means of selecting stations, and muting the set without taking the hands off the steering wheel or the eyes from the road. Its function is identical to that of the automatic tuning push button. The foot control requires no set up or other adjustment. Press the foot control button all the way down to change stations. Press lightly to silence the radio during conversation.

**NOTE:** The receiver cannot be turned on or off with the foot control. The on-off switch (Fig. 1) must be used for this purpose.

## Warranty and Service

Your Hudson Receiver is covered by warranty against defect in material and workmanship for a period of 90 days after retail delivery.

This warranty covers a receiver installed at the factory, also a receiver installed in the field as an accessory.

## IMPORTANT

A warranty registration tag is furnished with your receiver. This tag must be filled in and attached to the unit at the time of retail delivery in order that auto radio service stations may have the proper information when you require service during the warranty.

## How To Obtain Service

Return to your Hudson dealer, or if you are traveling go to your nearest Hudson dealer. Do not contact any other source for warranty service.

In case you are traveling, the dealer, to whom you apply for service, will render a small charge for the removal and re-installation of the radio equipment.

## INSTALLATION INSTRUCTIONS

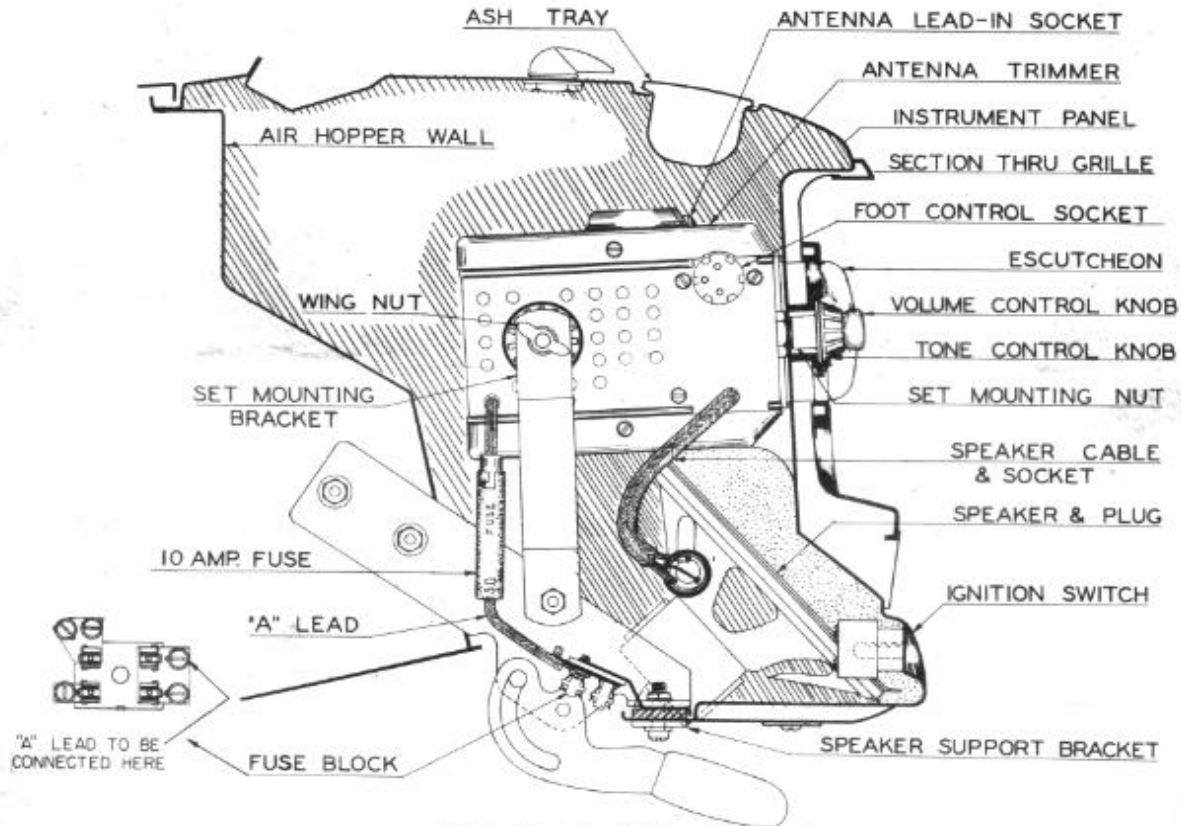


FIG. 2. Mounting Details and Connections

### Radio Receiver Kit

#### Model DB-47 Part No. H.A. 206990

Radio receiver	Temperature gauge condenser
Screws, lockwashers, knobs	Ignition coil condenser
Foot selector switch assembly	Motor hood bonding spring
Bracket assembly	Speaker and Support bracket and attaching parts
Distributor suppressor	
Voltage regulator condenser	Ground strap and attaching parts

### Radio Antenna Kits

Part No. 209558-60" Telescopic Antenna including all installation parts.

Part No. 209762-90" Telescopic Antenna including all installation parts.

Part No. 205451—Vacuum Operated Antenna including all installation parts.

NOTE: The above kits are not available from the radio manufacturer. See your Hudson dealer.

### Radio Installation Instructions

1. Install the antenna. Complete instructions for installation are packed with each kit.
2. Remove the decorative plate in the center of the grille covering the radio opening.
3. Remove the floor mat around the clutch and brake pedals. Place the foot control over the holes provided in the floor board. Fasten it with the three No. 8 R.H. self-tapping screws furnished in the installation kit (Fig. 3)
4. Dress the foot control lead to the left of the clutch pedal and up behind the fire wall pad.
5. Replace the floor mat and cut a hole for the foot control button.
6. Remove accessory switch bracket.
7. Plug the foot control cable into the socket provided on the left end of the receiver. With this end of the receiver down and the control shafts to the right, push the receiver up between the instrument panel and the

air hopper as far as it will go. Turn the radio clockwise until the knob shafts point downward. Lift the front of the receiver up until the shafts slide through the slots provided below the shaft openings in the instrument panel. Bring the receiver forward so that the knob shafts protrude through the shaft openings.

8. Fit the knob shaft bushing nuts on the shafts and tighten as much as possible with the fingers. Place the tips of long nose pliers in the holes in the nuts and tighten securely.
9. Attach set mounting bracket by fastening one end to the side of the receiver case with the wing nut. Fasten the other end of the radio mounting bracket to the cowl ventilator handle bracket with 1/4" x 3/4" M.S., flat washer, lock washer and nut. (Fig. 2.)
10. Remove cardboard protector from speaker unit and fasten speaker and bracket assembly in place with two 1/4" x 3/4" M.S. flat washers, two lock washers, and two nuts provided. (Fig. 2.) Connect the speaker-cable socket to the plug provided on the speaker frame.
11. Fasten the controls in place as shown in figure 1.
 

NOTE: Tuning knob must be placed 3/16" away from the instrument panel in order to rotate freely in the automatic position.
12. Fasten the accessory switch bracket back in place.
13. Remove the ash tray assembly and plug the antenna lead into the socket provided on the top of the receiver.
14. Fasten the "A" lead to the unfused terminal of the fuse block as indicated in Figure 2.
15. IMPORTANT: Turn the receiver on and allow it to operate for approximately fifteen minutes in order for it to reach normal operating temperature. Tune in a weak station near 1200 Kc. Reach through the ash tray opening with a small screw driver and adjust the antenna trimmer, located on the top of the receiver for maximum volume. (Fig. 2.) Replace ash tray.

## Interference Elimination

**IMPORTANT:** Use the utmost care in the following operations to insure freedom from motor noise. Be sure that good ground contacts are made between the interference condensers and the car body. If necessary, clean away paint or dirt with emery paper. Tighten all nuts and bolts securely.

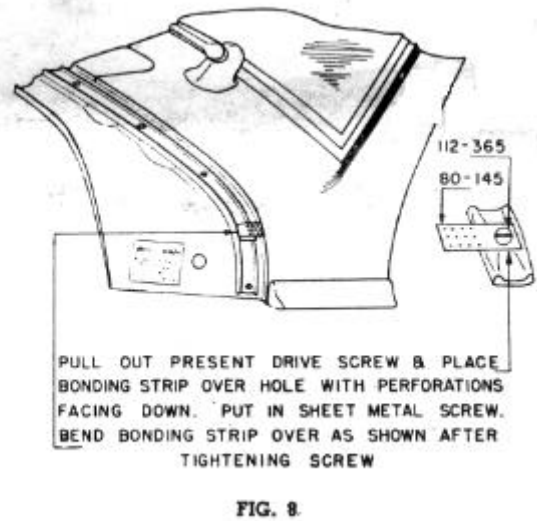
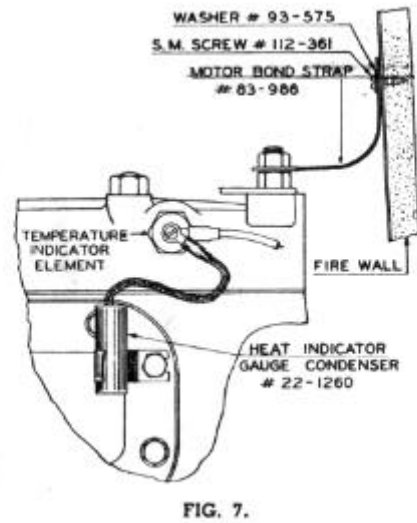
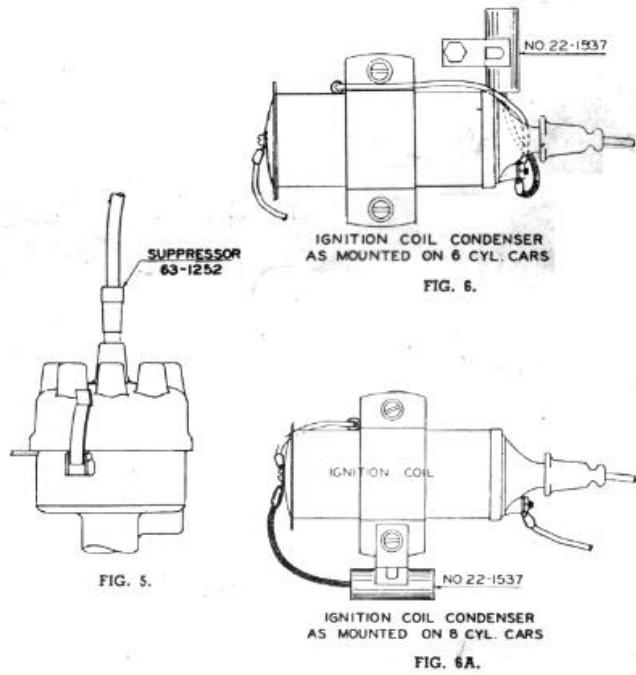
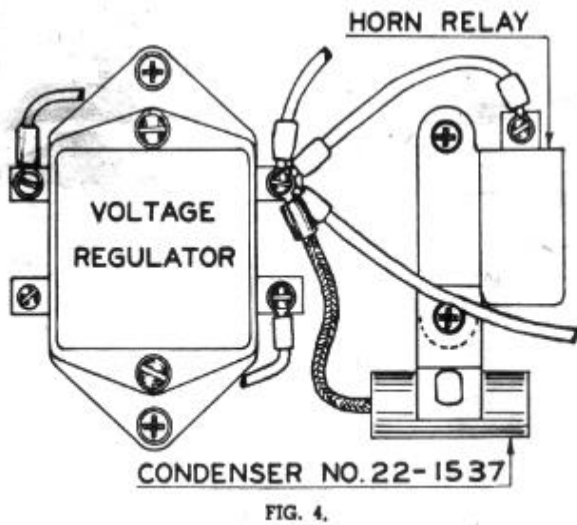
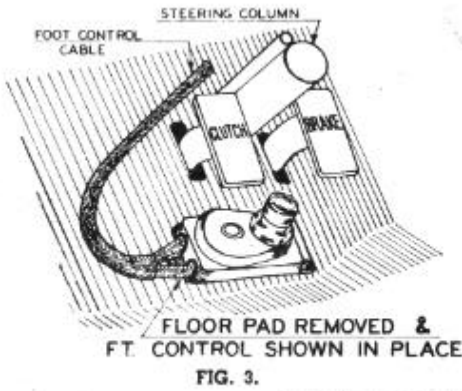
1. Remove the top mounting screw of the horn relay near the voltage regulator and under this screw mount the condenser No. 22-1537. Connect the lead to the voltage regulator battery terminal. (Fig. 4.)
2. Install suppressor No. 63-1252 in center hole of distributor cap. Place high tension lead in the top of suppressor. Be sure the suppressor and the lead are fastened securely. (Fig 5.)
3. On the six cylinder car, remove the bolt above the ignition coil, from the firewall. Mount the condenser No. 22-1537 under this bolt. Connect the lead to the coil terminal as shown in Figure 6.

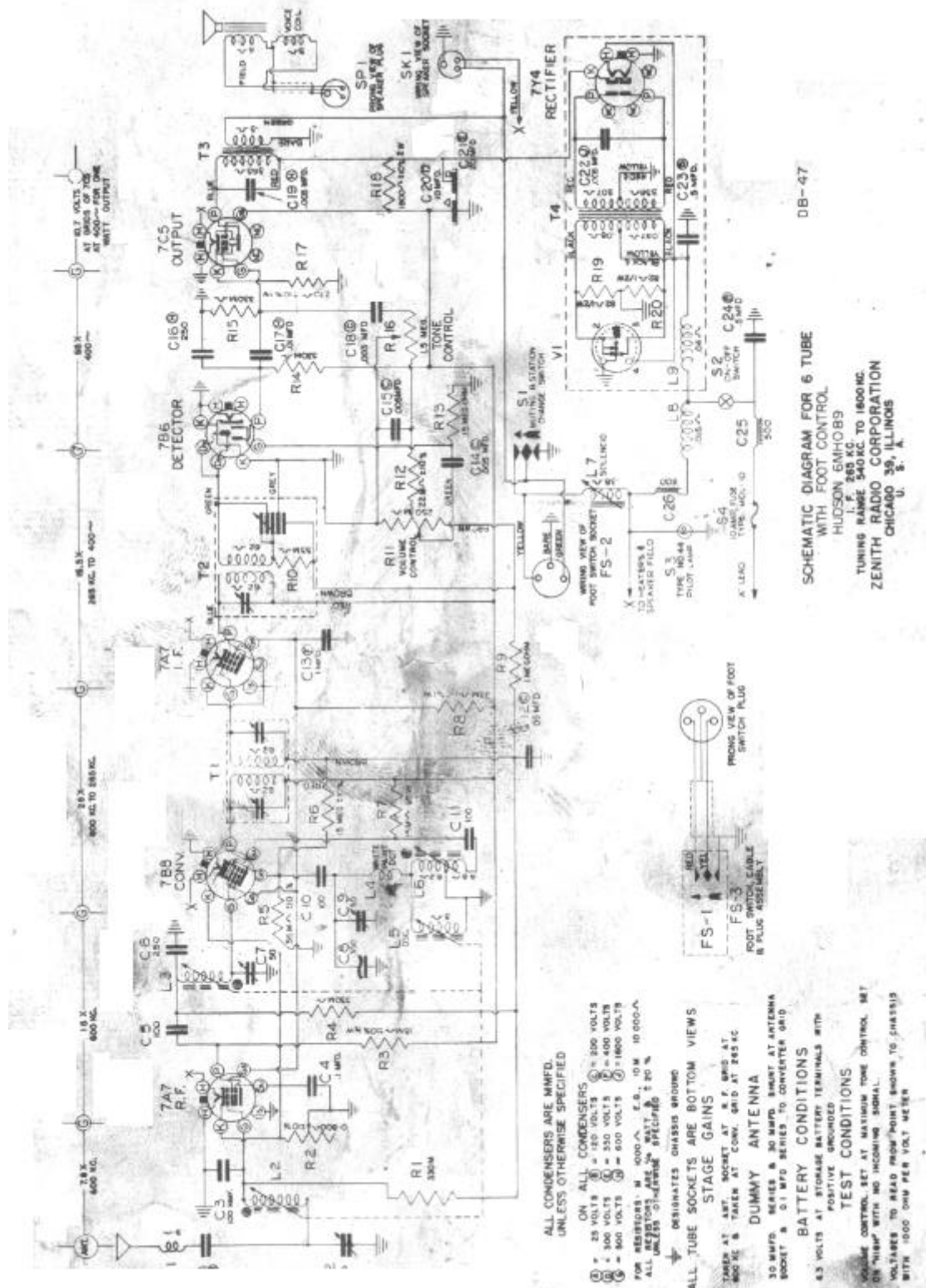
On the eight cylinder car, remove the bottom screw from the ignition coil mounting bracket. Install the condenser No. 22-1537 under the screw. Connect the lead to the coil terminal as shown in Figure 6A.

4. Loosen the upper rear cap screw of the engine water jacket plate. **CAUTION:** Do not REMOVE cap screw. Slide the slotted bracket of the condenser No. 22-1260 under the head of this screw. Tighten the screw. Attach the condenser lead to the water temperature element in the head. (Fig 7.)

5. Remove the tape from the hole, located near the left rear cylinder head nut in the dash. Fasten the flat ground strap 83-986 to this hole with a sheet metal screw and lock washer. Place the other end of the strap on top of the stud nut, and fasten it in place with the special nut furnished in the installation kit. (Fig. 7.)

6. Install the motor hood bond spring as shown in Figure 8. Fasten with No. 8 sheet metal screw.





ALL CONDENSERS ARE MMFD. UNLESS OTHERWISE SPECIFIED

ON ALL CONDENSERS  
 (1) = 25 VOLTS (2) = 50 VOLTS (3) = 100 VOLTS (4) = 200 VOLTS  
 (5) = 300 VOLTS (6) = 350 VOLTS (7) = 400 VOLTS (8) = 450 VOLTS  
 (9) = 500 VOLTS (10) = 600 VOLTS (11) = 650 VOLTS (12) = 700 VOLTS  
 (13) = 750 VOLTS (14) = 800 VOLTS (15) = 850 VOLTS (16) = 900 VOLTS  
 (17) = 950 VOLTS (18) = 1000 VOLTS (19) = 1050 VOLTS (20) = 1100 VOLTS  
 (21) = 1150 VOLTS (22) = 1200 VOLTS (23) = 1250 VOLTS (24) = 1300 VOLTS  
 (25) = 1350 VOLTS (26) = 1400 VOLTS (27) = 1450 VOLTS (28) = 1500 VOLTS  
 (29) = 1550 VOLTS (30) = 1600 VOLTS (31) = 1650 VOLTS (32) = 1700 VOLTS  
 (33) = 1750 VOLTS (34) = 1800 VOLTS (35) = 1850 VOLTS (36) = 1900 VOLTS  
 (37) = 1950 VOLTS (38) = 2000 VOLTS (39) = 2050 VOLTS (40) = 2100 VOLTS  
 (41) = 2150 VOLTS (42) = 2200 VOLTS (43) = 2250 VOLTS (44) = 2300 VOLTS  
 (45) = 2350 VOLTS (46) = 2400 VOLTS (47) = 2450 VOLTS (48) = 2500 VOLTS

FOR RESISTORS: M = 1000 Ω, K = 100 Ω, Ω = 1 Ω, 10 M = 10,000 Ω, 10 K = 10,000 Ω, 10 Ω = 10 Ω

ALL RESISTORS ARE 1/2 WATT UNLESS SPECIFIED OTHERWISE

ALL TUBE SOCKETS ARE BOTTOM VIEWS

STAGE GAINS  
 TAKEN AT ANT. SOCKET AT R.F. WPS AT 800 KC & TAKEN AT CONV. GRID AT 265 KC  
 DUMMY ANTENNA  
 50 MFD. SERIES & 20 MFD. BARKER AT ANTENNA SOCKET & 0.1 MFD. SERIES TO CONVERTER GRID

BATTERY CONDITIONS  
 4.5 VOLTS AT STORAGE BATTERY TERMINALS WITH POSITIVE GROUND

TEST CONDITIONS  
 VOLUME CONTROL SET AT MAXIMUM TONE CONTROL. MET ON "HIGH" WITH NO INCOMING SIGNAL.  
 VOLTAGE TO HEAD POINT SHOWN TO CHASSIS BY 1000 OHM PER VOLT JETTER

SCHEMATIC DIAGRAM FOR 6 TUBE WITH FOOT CONTROL  
 HUDSON 6MHOBB  
 TUNING RANGE 540 KC TO 1800 KC  
 ZENITH RADIO CORPORATION  
 CHICAGO 39, ILLINOIS

DB-47