



PRODUCT INSTRUCTIONS

NOTE REGARDING THIS INSTRUCTION MANUAL:

The following instruction manual is for an instrument that is no longer manufactured by Tinker & Rasor.

While most of the information contained within this manual is accurate to the best of our knowledge, some information may be outdated. Specifically, all contact information shown on the older manual is now obsolete. To contact Tinker & Rasor, please use this information:

Tinker & Rasor

+1-909-890-0700 telephone

+1-909-890-0736 fax

Info@tinker-rasor.com

www.tinker-rasor.com

Mailing Address

P O Box 1667

San Bernardino, CA 92402-1667

Shipping Address

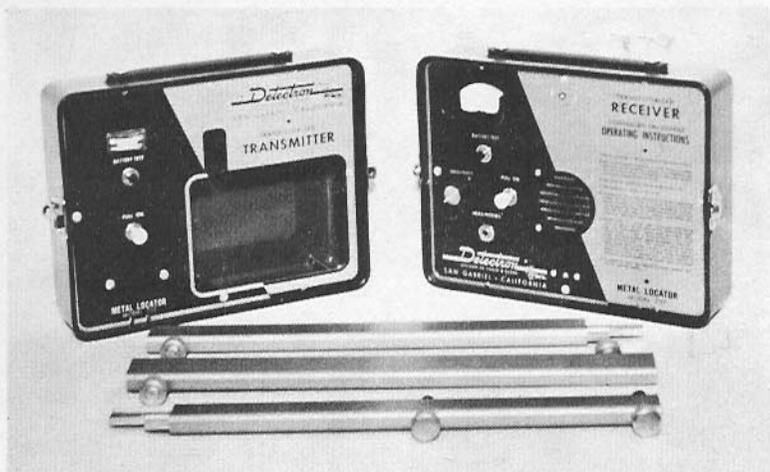
791 S. Waterman Ave.

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OPERATING INSTRUCTIONS

DETECTRON MODEL 711-T METAL DETECTOR



MANUFACTURED BY

Detectron®

Division of Tinker & Rasor

Manufacturers of Electrical Testing Instruments

POST OFFICE BOX 243

• SAN GABRIEL

• CALIFORNIA

• ATLANTIC 7-7942

INTRODUCTION

OPERATING INSTRUCTIONS

DETECTRON METAL DETECTOR MODEL 711-T

You are now a proud owner of a Detectron metal detector. This is the most stable, dependable instrument of its type on the world market today. Your Detectron detector has many features built into it for ruggedness, but always remember that it is a precision electrical instrument. With proper care you can expect many, many years of completely satisfactory performance with your Detectron metal detector.

All components in your Detectron metal detector are of the highest quality. These quality parts, plus expert craftsmanship, insure that you, the owner, have made an excellent choice in purchasing a Detectron instrument.

Detectron instruments have long been considered the very best all around metal detection equipment, by professionals and amateurs alike.

UNPACKING:

If damage has occurred in shipment, file claim with the carrier immediately. If it is necessary to contact your supplier or the manufacturer concerning damages or missing items, be sure to include all information, such as model, serial number, purchase order number and invoice number. This will assure you of obtaining proper and expeditious service.

ASSEMBLY:

The assembly of your Detectron metal detector is clearly illustrated (Figs. 1, 2, 3, 4). Make sure all "knobs" are securely tightened except for the one marked "T". The "T" knob is the **tuning** adjustment control and its function is shown in the operating instructions printed on the receiver panel (Figs. 3, 4).

THEORY OF OPERATION:

The transmitter produces a radio frequency electro-magnetic field in the form of a figure "8", the lower half

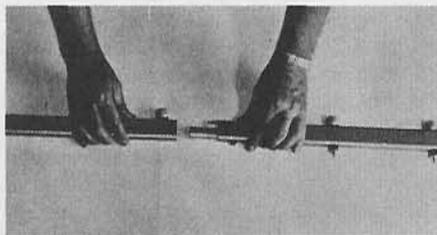


Fig. 1 — ASSEMBLE HANDLE



Fig. 2 — MOUNT TRANSMITTER ON HANDLE, making sure handle is fully inserted in mounting hole.

of this electrical field penetrates surface under investigation.

The receiver is aligned to bisect the center of the figure "8" of the electromagnetic field by proper "tuning". When the presence of an adequate amount of conductive metals or minerals is encountered by the electromagnetic field emitted from the transmitter, the electro-magnetic field is disturbed and the receiver will detect this disturbance and so indicate on the visual sensitivity meter and built-in loudspeaker.

OPERATION:

The adjustable carrying strap should be used when possible (Fig. 7). Usually the surface being investigated is more electrically conductive than air. By operating your Detectron metal detector as close to the surface under investigation as possible, the greater the penetration of the electro-magnetic field, hence, the smaller objects are more apt to be detected. Always tune the detector at the position it is to be operated. Never tune the instrument at one height and operate it at another.

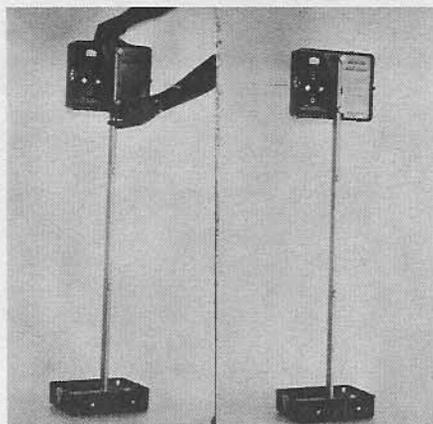


Fig. 3 and Fig. 4

MOUNT RECEIVER ON HANDLE. Do not tighten knob "T" securely, this is tuning control. Refer to operating instructions on receiver panel. — Fig. 4 shows instrument fully assembled.

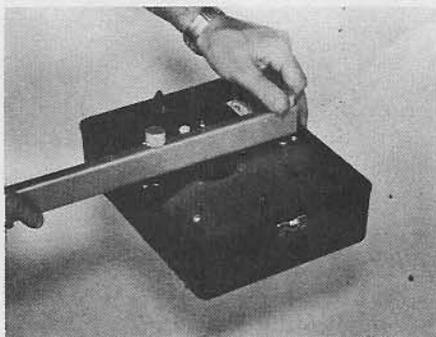


Fig. 5 — TUNING THE INSTRUMENT
Refer to operating instructions on receiver panel. — Read all instructions thoroughly.

It is strongly suggested that you familiarize yourself with the use of the instrument thoroughly before going into the field for actual exploration. This can be accomplished in very short time over known buried objects such as pipes, water meters, etc. Approach each indicated point from several directions for accurate location of all concealed objects. The instrument can be operated through fresh water. When using over streams, for example, tune the detector over the water. Avoid getting the instrument wet.

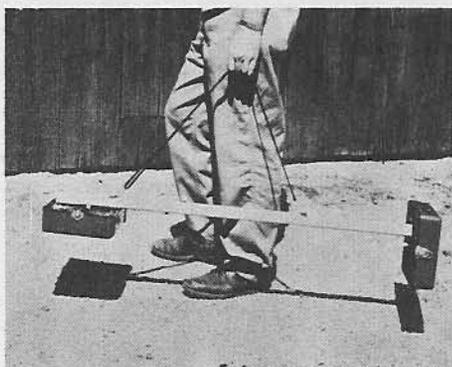


Fig. 7

Operating instrument with special carrying strap. Recommended method where practical.



Fig. 6

Operating instrument without special carrying strap.

SERVICE:

Your Detectron metal detector uses two ordinary 4 volt batteries, one each in the receiver and transmitter. Battery testers are provided. Replace batteries as needed with any of the following types: Eveready No. 756, Burgess No. D-6 or Mallory No. M-1603. To replace batteries: remove four screws on the front panel and lift panel from the case gently. The battery has snap-on type connectors (Fig. 8). NOTE: Metal cased batteries should never be used since they have an undesirable effect on the tuning of the instrument. Battery life expectancy under normal usage exceeds one year. The possibility of the unit requiring service other than battery replacement is extremely remote.

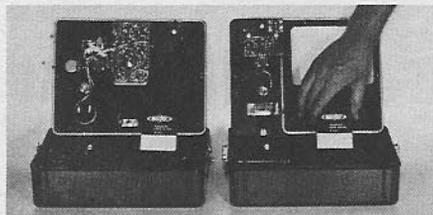


Fig. 8 — BATTERY REPLACEMENT

FACTORY SERVICE:

Detectron detectors returned to the factory for repairs should be sent transportation prepaid to Detectron, P. O. Box 243, San Gabriel, California. For proper and expeditious repair service, advise factory of return shipping

information. In most cases, the detector can be repaired and returned the same day it is received at the factory. When ordering parts or requesting further information, give Model and serial number of detector for which parts or information is required. Should it be necessary to return your instrument to the factory for repairs, be sure to send the complete instrument and all components. Extreme care should be taken in packaging to insure against damage in transit. All repairs and parts are on a C.O.D. basis except to authorized distributors.

FACTORY WARRANTY AND SERVICE POLICY:

Your Detectron Model 711-T is warranted under normal use and service against defects in workmanship and material for a period of one full year from the date of sale to the original purchaser. Manufacturer agrees to repair or replace, in our plant, without charge, to the original purchaser, any part or parts proven defective due to electrical or mechanical failure during the warranty period. This warranty does not cover transportation costs and instruments must be returned via prepaid freight. The factory will return warranted instruments to the purchaser freight collect. Warranty does not cover batteries.

This warranty is given expressly in lieu of all other warranties expressed or implied and no representative or other person is authorized to make any warranty or to commit the company to any liability not strictly in accordance with the standard factory warranty. To validate the warranty, the warranty card must be signed at the time of purchase and mailed promptly to Detectron, P. O. Box 243, San Gabriel, California.



Secure transmitter and receiver as shown for storage.