



435-325

PRESSURE TAPS

MODELS 1495A, 1495B
SERIES AC, AR, CMT, BMT

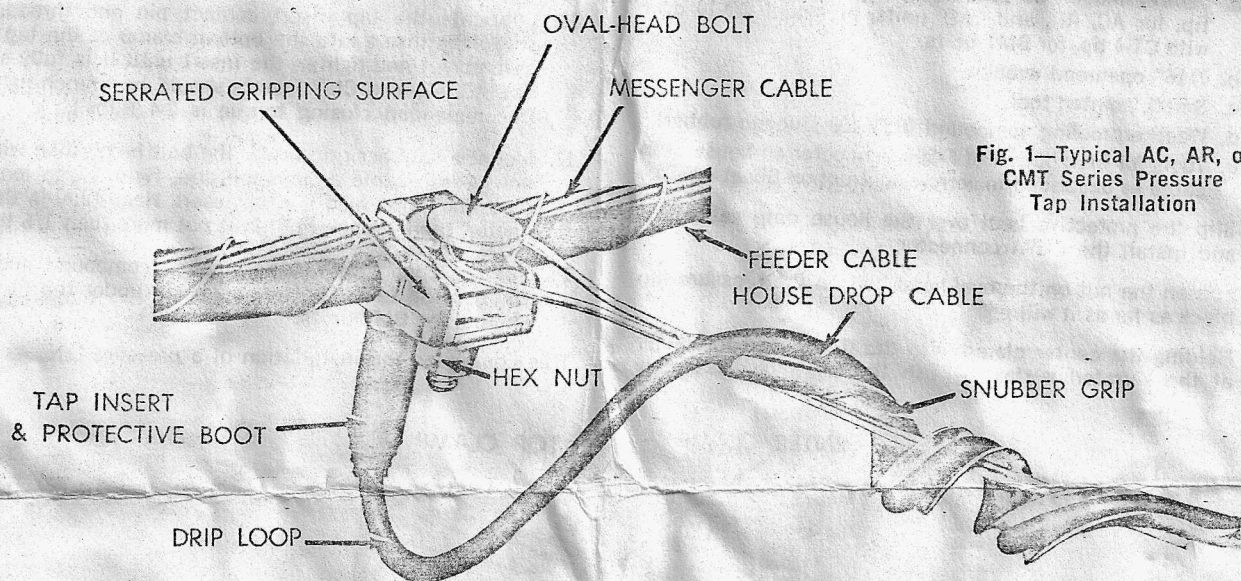


Fig. 1—Typical AC, AR, or CMT Series Pressure Tap Installation

CY-239

DESCRIPTION

Models 1495A and 1495B are weatherproof pressure tap blocks which, together with appropriate inserts, are designed for establishing tap-offs at feeder points where various amounts of attenuation are required for diverting portions of the distribution line signal to house drop lines.

Both taps are designed specifically for installation on jacketed aluminum sheath cable, Type JT-1412J. The combinations of tap blocks and inserts are listed in Table 1. The signal strength at the tap-off point and the channels of interest determine the type of insert to be used.

TABLE 1

TAP SERIES	TAP BLOCK MODEL NO.	TAP INSERT TYPE
1495AC	1495A	PTC (capacitive)
1495AR	1495A	PTR (resistive)
1495CMT	1495A	CMT (transformer)
1495BMT	1495B	BMT (transformer)

The tap blocks consist of a three-part (top clamp, center clamp, and bottom clamp) die-cast zinc alloy body held together by a galvanized steel, oval-head bolt and a galvanized steel nut. The oval-head bolt permits attachment of a house drop cable snubber grip. The end of the bolt thread is swaged to prevent the nut from being dropped accidentally. The cable groove (on the center and bottom clamps) is serrated to grip the cable jacket firmly, minimizing turning or lateral movement of the block. Stainless steel pins on the bottom clamp make effective grounding contact with the cable shield, and a weatherproofing gland protects the tap-off contact area.

The AC, AR, and CMT pressure tap inserts consist of an appropriate passive network housed in a threaded, silver-plated brass barrel; the BMT units use a die-cast zinc housing. All inserts have silver-plated probe pins for positive contact with the distribution line center conductor.

Model PTC inserts have a low-frequency capacitive coupling network, exhibiting tilted line-to-tap loss characteristics which compensate for high-frequency vs. low-frequency attenuation differences. They can be used on distribution lines which carry a-c.

Model PTR inserts have a resistive coupling network which exhibits an essentially flat line-to-tap loss characteristic.

Model GMT and BMT inserts are back-matched types which use a toroid transformer coupling network. These inserts also have a flat line-to-tap loss characteristic; a blocking capacitor permits using these inserts on distribution lines carrying a-c.

The AC, AR, and CMT units are shipped together with an F-59A coaxial cable connector and a protective boot for installation on the house drop cable. The BMT units are shipped with the connector, the boot, and a protective shroud.

INSTALLATION

1. It is assumed that the pressure tap has been chosen in accordance with system requirements.
2. Installation tools required:
 - a. Jerrold Model CD-11 cutting drill with CT-2 cutting tip, for AC, AR, and CMT units; or Model CD-10 drill with CT-4 tip, for BMT units.
 - b. 7/16" open-end wrench.
 - c. Small, pointed tool.
 - d. Weatherproofing compound (RTV-108 silicone rubber).
 - e. Tools for installation of F-59A connector on house drop cable as described in Jerrold Instruction Sheet 435-345.
3. Slip the protective boot over the house drop cable end and install the F-59A connector.
4. Loosen the nut on the oval-head bolt on the pressure tap block as far as it will go.
5. Holding the center clamp with the thumb and forefinger at the serrated surfaces, push the tap block assembly

onto the messenger wire and distribution cable at the tap-off point. The messenger should be engaged between the top and center clamps and the cable between the center and bottom clamps (Fig. 2).

6. Position the tap block assembly so that the house drop connection is vertical.
7. Firmly tighten the nut on the oval-head bolt to ensure positive contact between the grounding pins and the shield of the distribution cable.
8. Thread the cutting drill into the aperture of the bottom clamp to the limit of its travel.
9. Unthread the drill and thoroughly clean the hole by tapping sharply on the top clamp; if necessary, use a small, pointed tool to remove any loose particles.
10. On BMT units, place the shroud over the pressure tap insert.
11. Lubricate the tap insert contact pin and thread; then screw the insert into the bottom clamp of the tap block assembly. Hand-tighten the insert until it is fully seated. The AC, AR, and CMT inserts should be wrench-tightened (recommended closing torque is 2-4 ft.lbs.).
12. Mount a snubber grip under the bolt head; then wind the house drop cable around the grip, form a drip loop, and mate the F-59A with the tap insert. Hand-tighten the connector, then wrench-tighten it not more than 1/6 turn.
13. Fill the boot with weatherproofing compound and slide the boot up to the bottom clamp or under the lip of the shroud, for BMT units.

This completes the installation of a pressure tap.

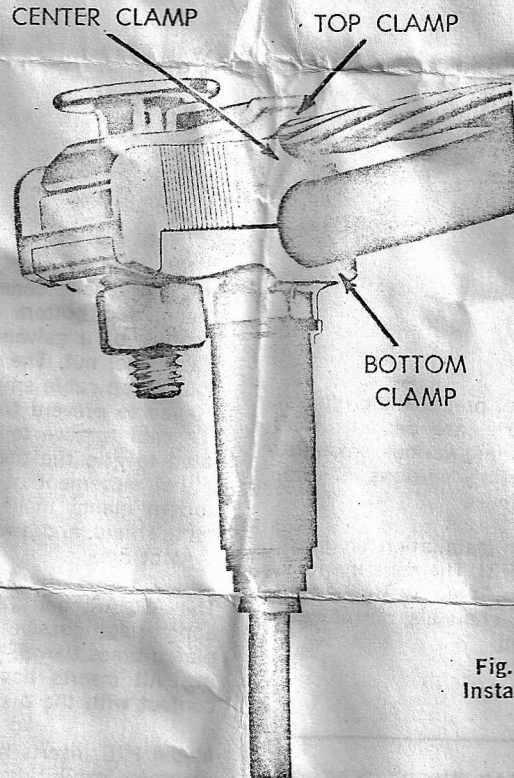


Fig. 2—Side View of Installed Pressure Tap

All data subject to change without notice.

JERROLD ELECTRONICS CORPORATION
CATV SYSTEMS DIVISION
Philadelphia, Pa. 19105