

144/430 MHz
Mobile Transceiver

FT-90R

Technical Supplement

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Introduction

This manual provides technical information necessary for servicing the Yaesu FT-90R VHF/UHF Dual Band FM Mobile Transceiver. It does not include information on installation and operation, which are described in the FT-90R Operating Manual provided with the transceiver, or on accessories which are described in their manuals.

The FT-90R is carefully designed to allow the knowledgeable operator to make nearly all adjustments required for various station conditions, modes and operator preferences simply from the controls on the panel, without opening the case of the transceiver. The FT-90R Operating Manual describes these adjustments, plus certain internal settings.

Servicing this equipment requires expertise in handling surface mount chip components. Attempts by unqualified persons to service this equipment may result in permanent damage not covered by warranty. For the major circuit boards, each side of the board is identified by the type



of the majority of components installed on that side. In most cases one side has only chip components, and the other has either a mixture of both chip and lead components (transistors, coils, electrolytic capacitors, packaged ICs, etc.) or lead components only.

While we believe the technical information in this manual is correct, Yaesu assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated. Yaesu Museum reserves the right to make changes in this transceiver and the alignment procedures, in the interest of technological improvement, without notification of owners.

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web when the atoms in a bond are not the same the bonding electrons are shared and the bond is electronegativities equally unequally non polar polar unequally polar the degree of polarity of a bond between any two atoms is determined by consulting a table of

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web chemical bonds hold molecules together and create temporary connections that are essential to life types of chemical bonds including covalent ionic and hydrogen bonds and london dispersion forces introduction living things are made up of atoms but in most cases those atoms aren t just floating around individually

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web the relative electronegativities of the bonded atoms is h c cl and so the bond moments all point toward the cl end of the molecule and sum to yield a considerable dipole moment the molecules are relatively polar for molecules of high symmetry such as BF_3 trigonal planar CH_4 tetrahedral PF_5 trigonal bipyramidal and SF_6

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web apr 1 2021 updated on april 01 2021 chemical bonds may be classified as being either polar or nonpolar the difference is how the electrons in the bond are arranged key takeaways what is a polar bond in chemistry a polar bond is a type of covalent bond in which the electrons forming the bond are unequally distributed