



# MOTOROLA

## Service Manual

AUTO RADIO

MODEL  
MOTOROLA  
04M1

INTERNATIONAL HARVESTER  
244079-R91

### GENERAL INFORMATION

**NOTE: SPECIAL SPEAKER INFORMATION:** THE SPEAKER USED WITH THIS SET IS SPECIAL AND NOT INTERCHANGEABLE WITH THE TYPES COMMONLY AVAILABLE. (SEE SERVICE NOTES).

#### TYPE

Automotive type superheterodyne receiver designed for custom installation in the Scout and C-line models of International Harvester trucks. This receiver contains a transistor driver stage, a push-pull transistor output stage and four miniature type tubes.

#### TUNING RANGE

540 to 1610 Kc  
IF - 252.5 Kc

#### TUBE AND TRANSISTOR COMPLEMENT

12BL6	RF amp
12AD6	Converter
12BL6	IF amp
12AE6A	Det.-AFC-AF amp
2N573	Transistor driver
2N176	Transistor power amp
2N176	Transistor power amp

### TO SET PUSHBUTTONS

1. Tune in the desired station with the manual tuning knob; tune carefully until you are exactly on station.
2. Pull out the first pushbutton, to unlock it for station set-up. (Pushbutton will extend approximately 1/2 inch from normal position.)
3. Lock station to pushbutton by pushing button in firmly.
4. Follow the above procedure for the remaining four buttons.

### MOTOROLA AUTO RADIO WARRANTY SERVICE STATION PROCEDURE FOR INTERNATIONAL SCOUT & C - LINE RADIO MODELS

1. Defective in-warranty radio must be accompanied with the Customer's Warranty Policy covering International Auto Radio Models. This tag must be properly filled in by the International Dealer at the time of radio purchase. Accept as warranty repairs only those radios within the ninety-day warranty period. The removal or reinstallation of this receiver is not covered by this warranty. The fee for this service should be billed to the customer. Also the removal of motor noise, tire static, electrical interference, faulty installations, and aerial repairs are not considered as warranty repairs and, consequently, charges for these services are always borne by the customer.
2. Fill in Motorola Auto Radio Warranty Labor Claim, Part No. 54P480884, and mail White and Green copies to Service Department, Motorola Incorporated, 9401 West Grand Avenue, Franklin Park, Illinois.
3. The Yellow copy of the Motorola Auto Radio Warranty Labor Claim is to be retained by the Warranty Service Station for his files.
4. Defective parts for warranty repairs made on International Models are to be sent to your Motorola Distributor for free replacement, supported with the defective parts return tag or form which you are now using.
5. Only those service shops authorized by their Motorola Distributor can perform repairs within the warranty period.



on a no-charge basis to the customer. If you are not already authorized as a Motorola Auto Radio Warranty Service Station, and you are interested in handling this service, please contact your Motorola Distributor for complete details.

### SERVICE NOTES

**1. RADIO POLARITY** - WHEN SERVICING THIS RECEIVER, THE "A" LEAD MUST BE CONNECTED TO THE POSITIVE SIDE OF POWER SOURCE. IF CONNECTED OTHERWISE, RECEIVER WILL NOT OPERATE AND DAMAGE TO COMPONENTS MAY RESULT.

**2. POWER SUPPLY REQUIREMENTS** - It is preferable to use a storage battery (without a battery charger) in place of a battery eliminator. If a battery eliminator is used, it must be well filtered and regulated.

**3. POWER TRANSISTOR CURRENT ADJUSTMENT** - After replacing a power transistor, measure the collector current of BOTH power transistors and adjust for proper operation.

- a. Allow radio to warm up for 15 minutes.
- b. Connect a 0-1 amp DC AMMETER, whose internal resistance is .05 ohms or less in series with the center tap of a dummy load (see illustration). Connect positive side of meter to dummy load center tap; connect negative side of meter to radio chassis (ground).
- c. R18 is used to limit total collector current. In most sets it is a piece of copper wire in a few sets it is a 1/2 watt carbon resistor, either 27 or 56 ohms.

With 14V input to the radio "A" lead, the total collector current should not exceed 340 ma or be less than 150 ma. When 12.6V is applied to the radio "A" lead, the total collector current must not exceed 240 ma or be less than 120 ma. If the total collector current does not fall within these limits, change the value of R18 as required.



ILLUSTRATION - ADJUSTING TRANSISTOR CURRENT OR  
OPERATING SET WITHOUT SPEAKER

ADJUSTING TRANSISTOR CURRENT OR  
OPERATING SET WITHOUT SPEAKER

# Motorola Service Manuals

**TD Snyder**



## **Motorola Service Manuals:**

The book delves into Motorola Service Manuals. Motorola Service Manuals is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Motorola Service Manuals, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Motorola Service Manuals
- Chapter 2: Essential Elements of Motorola Service Manuals
- Chapter 3: Motorola Service Manuals in Everyday Life
- Chapter 4: Motorola Service Manuals in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Motorola Service Manuals. This chapter will explore what Motorola Service Manuals is, why Motorola Service Manuals is vital, and how to effectively learn about Motorola Service Manuals.

3. In chapter 2, this book will delve into the foundational concepts of Motorola Service Manuals. This chapter will elucidate the essential principles that need to be understood to grasp Motorola Service Manuals in its entirety.

4. In chapter 3, this book will examine the practical applications of Motorola Service Manuals in daily life. The third chapter will showcase real-world examples of how Motorola Service Manuals can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Motorola Service Manuals in specific contexts. The fourth chapter will explore how Motorola Service Manuals is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Motorola Service Manuals. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Motorola Service Manuals.

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## Table of Contents Motorola Service Manuals

1. Understanding the eBook Motorola Service Manuals
  - The Rise of Digital Reading Motorola Service Manuals
  - Advantages of eBooks Over Traditional Books
2. Identifying Motorola Service Manuals
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Motorola Service Manuals
  - User-Friendly Interface
4. Exploring eBook Recommendations from Motorola Service Manuals
  - Personalized Recommendations
  - Motorola Service Manuals User Reviews and Ratings
  - Motorola Service Manuals and Bestseller Lists
5. Accessing Motorola Service Manuals Free and Paid eBooks
  - Motorola Service Manuals Public Domain eBooks
  - Motorola Service Manuals eBook Subscription Services
  - Motorola Service Manuals Budget-Friendly Options
6. Navigating Motorola Service Manuals eBook Formats
  - ePub, PDF, MOBI, and More
  - Motorola Service Manuals Compatibility with Devices
  - Motorola Service Manuals Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Motorola Service Manuals
  - Highlighting and Note-Taking Motorola Service Manuals
  - Interactive Elements Motorola Service Manuals
8. Staying Engaged with Motorola Service Manuals

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Motorola Service Manuals
- 9. Balancing eBooks and Physical Books Motorola Service Manuals
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Motorola Service Manuals
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Motorola Service Manuals
  - Setting Reading Goals Motorola Service Manuals
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Motorola Service Manuals
  - Fact-Checking eBook Content of Motorola Service Manuals
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

## Motorola Service Manuals Introduction

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