



SAFETY

CONTENTS

SECTION 01 SPECIFICATIONS

SECTION 02 UPPERSTRUCTURE

SECTION 03 UNDERCARRIAGE

SECTION 06 OPERATIONAL PERFORMANCE TEST

SECTION 07 TROUBLESHOOTING

EX8\_EX30 WS80-01

EX8\_EX30 EX8\_EX30 EX30 WORKS-HOWMANUAL

INTRODUCTION

SAFETY

INDEX

CONTENTS

SECTION 01 SPECIFICATIONS

SECTION 02 UPPERSTRUCTURE

SECTION 03 UNDERCARRIAGE

SECTION 04 FRONT ATTACHMENT

SECTION 05 SPECIAL TOOL

SECTION 06 ENGINE AND ACCESSORY EX8

SECTION 07 ENGINE AND ACCESSORY  
(EX12,15,22,30)

## UPPERSTRUCTURE / Counterweight

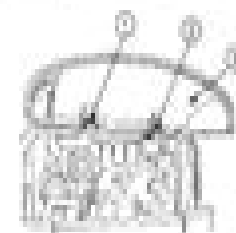
### REMOVE COUNTERWEIGHT

SEE OVERHAUL GUIDE

20 Figure shown in this section are for EX 30.

1 Remove four engine cover connecting pins (1) and two support pins (2) to remove engine cover (3).

→ 17 min



REF 30-02

2 Remove two counterweight mounting bolts (1).

→ 12 min

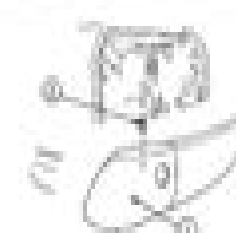


REF 30-03

3 Remove counterweight mounting bolts (1) and counterweight mounting bolts (2).

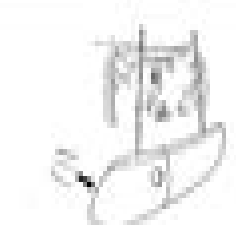
⚠ **CAUTION: Load capacity**  
 EX 8 : 20 to 100 kg  
 EX12 : 20 to 100 kg  
 EX15 : 20 to 100 kg  
 EX22 : 20 to 100 kg  
 EX30 : 20 to 100 kg

→ 12 min



REF 30-04

4 Before leaving the counterweight, use the crane to move it away from the machine.



REF 30-05

# Hitachi Ex 15 Repair Manual

**Michael Hoelscher**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

## **Hitachi Ex 15 Repair Manual:**

**Chilton's Import Automotive Repair Manual** ,1975      Chilton's Import Car Repair Manual Chilton Automotive Editorial Staff,Chilton Book Company,1979 This book includes repair information on cars and light trucks Includes specifications tune ups troubleshooting and diagnosis engine rebuilding emissions controls brakes transmissions and more

Chilton's Import Car Repair Manual, 1975-81 Chilton Automotive Books,1981-04 Each section contains car identification service procedures and specifications Areas covered include electrical system engine rebuilding troubleshooting cooling systems emission controls fuel systems transmissions turbocharging diesel engines clutches transaxles differentials suspension steering brakes and fuel injection      Chilton's Import Car Repair Manual, 1985 ,1984      **Popular Mechanics** ,1978-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      **Popular Science** ,1977-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      **Popular Science** ,1977-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      Popular Mechanics ,1978-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      Japanese Technical Abstracts ,1987      **Road and Track** ,1990      **Lloyd's Register OneOcean's Guide to Port Entry 1977-1978 Nations A-K** Lloyd's Register Foundation,1977-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams      Popular Science ,1978-04 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      **Popular Science** ,1978-05 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      Amateur Radio ,1991

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**Radio-electronics** ,1985      Manzanar National Historic Site, California Harlan D. Unrau,1996      *Lloyd's Register*

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,1999-03

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## **Table of Contents Hitachi Ex 15 Repair Manual**

1. Understanding the eBook Hitachi Ex 15 Repair Manual
  - The Rise of Digital Reading Hitachi Ex 15 Repair Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Hitachi Ex 15 Repair Manual
  - 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 Hitachi Ex 15 Repair Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hitachi Ex 15 Repair Manual
  - Personalized Recommendations
  - Hitachi Ex 15 Repair Manual User Reviews and Ratings
  - Hitachi Ex 15 Repair Manual and Bestseller Lists
5. Accessing Hitachi Ex 15 Repair Manual Free and Paid eBooks
  - Hitachi Ex 15 Repair Manual Public Domain eBooks
  - Hitachi Ex 15 Repair Manual eBook Subscription Services
  - Hitachi Ex 15 Repair Manual Budget-Friendly Options
6. Navigating Hitachi Ex 15 Repair Manual eBook Formats

- ePub, PDF, MOBI, and More
- Hitachi Ex 15 Repair Manual Compatibility with Devices
- Hitachi Ex 15 Repair Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hitachi Ex 15 Repair Manual
  - Highlighting and Note-Taking Hitachi Ex 15 Repair Manual
  - Interactive Elements Hitachi Ex 15 Repair Manual
- 8. Staying Engaged with Hitachi Ex 15 Repair Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hitachi Ex 15 Repair Manual
- 9. Balancing eBooks and Physical Books Hitachi Ex 15 Repair Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hitachi Ex 15 Repair Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hitachi Ex 15 Repair Manual
  - Setting Reading Goals Hitachi Ex 15 Repair Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hitachi Ex 15 Repair Manual
  - Fact-Checking eBook Content of Hitachi Ex 15 Repair Manual
  - 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

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