

## Re: Repair data base

**Source:** <http://sci.tech-archive.net/Archive/sci.electronics.repair/2005-02/1946.html>

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**From:** N Cook (*diverse2\_at\_tcp.co.antyspahn.uk*)

**Date:** 02/19/05

Date: Sat, 19 Feb 2005 20:13:28 -0000

"NSM" <nowrite@to.me> wrote in message news:cvMRd.1856\$9a3.811@edtnps91...

>

> "VMI" <fa453213@skynet.be> wrote in message

> news:42178d49\$0\$23940\$ba620e4c@news.skynet.be...

>> Hi,

>> I'm looking for a (free or share ware) piece of sw so that I'm able to

>> record all repairs done.

>> A possibility to search for serial number, client name, brand, model,  
fault

>> etc...

>> Who knows if such a piece of sw exists?

>> I had a decent one, written for MS Access but I lost it some where.

>> All help is appreciated.

>> Thanks,

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> Any database. OpenOffice will do.

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Would this be the book ?

Audel Small Electric Motors: Use, Selection, Repair, and Maintenance, 2nd  
Edition

Rex Miller, Mark Richard Miller

ISBN: 0-02-584975-1

Hardcover

436 pages

April 1993

PART ONE-Introduction.

1. Motor Repair Tools.

Screwdrivers · Pliers · Hammers · Hacksaws · Wrenches · Other Tools · Meters  
and Test Devices.

## 2. Motor Repair Supplies.

Setscrews · Carbon Brushes · Bushings and Bearings · Shaft Adapters · Rubber Mounts · Fiber Washers · Rubber Grommets · Replacement Switches · Electrolytic Capacitors · Insulating Enamel · Cord · Motor Wiring for Installation.

## PART TWO—Fractional—Horsepower Motors (Basic Types).

### 3. Small DC and Universal Motors.

Shunt DC Motors · Compound Motors · Permanent—Magnet Motors · Series or Universal Motors · The Hand Drill · Portable Saws · Repairing a Series (Universal) Motor · Miscellaneous Information.

### 4. Split—Phase Motors.

Starting a Single—Phase Motor · Starting a Split—Phase Motor · Characteristics of the Split—Phase Motor · Dual Frequency Operation · Motor Noise and Vibration.

### 5. Capacitor—Start Motors.

Starting a Capacitor—Start Motor · The Electrolytic Capacitor · Characteristics of the Electrolytic Capacitor · Characteristics of Capacitor Motors · Reversing the Motor · Dual—Frequency Operation · Mechanical and Electrical Noises.

### 6. Shaded—Pole Motors.

Starting the Shaded—Pole Motor · Types of Shaded—Pole Motors · Construction of Shaded—Pole Motors · Performance of Shaded—Pole Motors · Applications of Shaded—Pole Motors.

### 7. Three—Phase Motors.

Uses of Three—Phase Motors · How Three—Phase Motors Work · Torque · Motor Ventilation · Motor Losses · Reversibility · Applications of Three—Phase Motors.

### 8. Special Types of Motors.

Understanding the Nameplate · Troubles · Bearings · Three—Speed Motors · Instant—Reversing Motors · Severe—Duty Motors · Farm—Duty Motors · High—Slip Motors · Explosion—Proof Motors · Metric Motor Ratings.

## PART THREE—Maintenance and Repair.

### 9. General Maintenance.

General Troubleshooting Procedures · Maintenance of the Split–Phase Motor · Maintenance of Capacitor Motors · Electrolytic Capacitors · The Permanent Split–Capacitor Motor · Maintenance of the Three–Phase Motor · Maintenance of Brush–Type Motors.

10. Commutators and Brushes.

The Armature · Magnet–Wire Characteristics · Commutator Maintenance · Brushes.

11. Shafts and Bearings.

Motor Shafts · Selection of Bearings · Ball Bearings · Bearing Failure · Motor Problems Caused by Bearing Wear or Damage.

12. Switches and Relays.

Overload Protection · Internal (Line Break) Motor Protector · Relays for Motor Control · Maintenance and Repair of Relays · Electronic Speed Control.

13. Armatures–Stripping and Rewinding.

Checking the Armature · Commutator Removal · Tests on the Commutator · Difficult Windings · Replacing the Commutator · Hand Winding, Coil Forming, and Slot Wedging · Loop Method of Winding · Armature Banding · Testing the Armature · Automated Armature Winding.

14. Stators–Stripping and Rewinding.

Stripping a Winding · Rewinding a Stator · Mold and Hand Winding · Automatic Coil Winding.

PART FOUR–Modifications of Motors.

15. Modifying Motors.

Motor Modifications for Shafts · Speed Controls · Modifying AC Motors for Speed Control · AC Motor Speed–Control Methods · Reversing Direction of Rotation.

PART FIVE–Motor Selection and Replacement.

16. Motor Selection and Replacement.

Selection of Motor Type · Motor Mounting · Part–Winding Starting · Enclosures and Special Winding Treatment · Guide to Selecting the Right Motor · Installation · Location and Motor Enclosures · Maintenance.

PART SIX–Electronically–Operated Motors.

17. Steppers and Synchronous Motors.

Shaded-Pole Unidirectional Synchronous Motors · Capacitor Start and Run Bidirectional Synchronous Motor · Single-Phase Stepper Motor (Unipolar Drive) · Single-Phase Stepper Motor (Bipolar Drive) · Two-Phase Stepper Motor (Unipolar Drive) · Four-Phase Stepper Motor (Unipolar Drive) · Open-Frame Synchronous and Stepper Motors · Reversible Step Servo Motor · High-Torque Reversible AC Motor · 3-Wire Stepper Motor (Open Frame).

18. Motion Control.

Disc Magnet Stepper Terminology · Disc Magnet Steppers · Disc Magnet Two-Phase Stepper Motor · PM Two- and Four-Phase Stepper Motors · Two- and Four-Phase Linear Stepper Motors · Brushless DC Motors · Ironless Rotor DC Motors.

PART SEVEN-Motor Terminology.

19. Motor Terminology.