

# **LAPL ELECTRONIC RESOURCE OF THE MONTH!**



February 2012:

## **HOW DO I FIND THE CHILTONLIBRARY.COM?**

**In-Library and Home (Remote Access with a valid LAPL Library card)**

*ChiltonLibrary.com* is available online at all LAPL locations and remotely from the LAPL Web site in the **Databases** alphabetical list and under the subject category *Science & Technical*.

## **DESCRIPTION:**

### **Automotive Repair Information for Do-It-Yourself (DIY) People**

*ChiltonLibrary.com* provides online access to repair, maintenance, specification tables, and service information on thousands of domestic and imported models, including cars, trucks, vans, and SUVs from 1940 onward. Standard features include: Step-by-step instructions, Videos and animations that show how to complete repairs, Close-up photos and images to enhance understanding of the text, Wiring diagrams to help explain system operation, Troubleshooting and diagnostic information that help pinpoint searches, and Maintenance and specification tables that highlight key information. In order to access any information, you must first select the specific vehicle you would like to research

## **SAMPLE SEARCH:**

### **Question:**

How do you remove a master cylinder and install a new one in a 1998 Ford Escort?

### **Solution:**

1. The first page has a Vehicle Selector. Select the "Year"-1998, the "Make"- Ford, and then a "Model" -Escort.
2. Select the "Repair" tab. This opens up the left hand list of subjects.

The image shows a "Vehicle Selector" form. It has a yellow header with the text "Vehicle Selector". Below the header, there are three dropdown menus: "Select a Year:" with "1998" selected, "Select a Make:" with "Ford" selected, and "Select a Model:" with "Escort" selected. At the bottom of the form is a green "Select" button.

## **Vehicle Selection Results for 1998 Ford Escort**

Data is available for the following:

- [Repair](#)
- [Maintenance](#)
- [Bulletins/Recalls](#)



3. Click on the “+” before “Brakes”, then on “Brake Operating System” the “Master Cylinder” then “Removal & Installation.”
4. This particular sample search has a video showing the removal and replacement. The steps to follow are listed below the video.


Your Current Vehicle: 1998 Ford Escort

Search Print Content >>

- General Information & Identification
- Body
- Brakes
  - Anti-Lock Brake System
  - Bleeding the Brake System
  - Brake Operating System
    - Brake Light Switch
    - Description & Operation
    - Hoses & Lines
    - Master Cylinder
      - Removal & Installation
    - Power Brake Booster
    - Pressure Differential (Proportioning)
  - Disc Brakes
  - Fluids & Lubricants
  - Front Disc Brakes
  - Parking Brake
  - Rear Disc Brakes
  - Rear Drum Brakes
  - Specifications
- Chassis Electrical
- Diagnostics
- Driveline
- Engine Cooling
- Engine Electrical
- Engine Mechanical
- Engine Performance & Emission Control
- Fuel Systems
- Heating, Ventilation, & Air Conditioning
- Steering
- Suspension
- Transmissions

PATH: Brakes > Brake Operating System > Master Cylinder > Removal & Installation

### Removal & Installation



Some power boosters contain a reaction disc between the master cylinder pushrod and the booster diaphragm. In case, the booster and master cylinder must be removed as an assembly, placed upright and then the master cylinder removed. The booster

A scan tool is absolutely necessary to bleed the brake hydraulic system on 1997-99 models equipped with an Anti-Lock Brake System (ABS). If your vehicle is equipped with ABS, be sure to refer to the ABS bleeding procedures in this section before performing any work on your vehicle's brake hydraulic system.

1. Remove the air cleaner outlet tube.
2. Disconnect the negative battery cable.
3. Unplug the low fluid level sensor electrical connector.
4. Remove the reservoir cap and use a suction device such as a turkey baster, to remove the brake fluid from the reservoir
5. Loosen the brake line fittings and disconnect the brake lines from the master cylinder.
6. Cap the brake lines and the master cylinder ports.

### Special Features

- 1) **Four tabs** across the top of every page except on the first page.



- **Select Vehicle** – takes you back to the first page where you can begin a new search for a vehicle by year, make and model.
- **Bulletins/Recalls** (Technical Service Bulletins and Recalls)
- **Maintenance** (what regular maintenance schedules will cover for the vehicle)
- **Repair** (where you can find repair information).

Depending on the vehicle you have selected, you may be able to retrieve all three categories of information by selecting each button on the top navigation bar. This is a second location for the information links found in the right window pane after the initial search for a specific vehicle.

- 2) **Document Navigation Tree:**

- The plus sign (+) expands the selected topic
- The minus sign (-) collapses the current topic

- 3) **Help** – found on each page after selection.