

Table of Contents

Introduction to Chilton Library2

Getting Started.....2

Browser Recommendations and System Requirements2

Chilton Library Functionality4

Selecting a Vehicle.....4

Repair.....7

Vehicle Maintenance10

Technical Service Bulletins (Bulletins/Recalls).....14

Labor Estimating17

ASE Test Prep22

Introduction to Chilton Library

Welcome to the user guide for the Chilton Library application. Here you will be able to research specific topics that will help answer any questions you may have on the use of the product.

Getting Started

The Chilton Library application allows you to browse through a robust list of vehicles in order to obtain vehicle specific information including:

- Repair Procedures
- Technical Service Bulletins/Recalls
- Labor Estimation
- Vehicle specific Maintenance schedules and much more.

This application is setup with flexible toolbars and navigation which allows you to jump between the various areas listed above for each vehicle you are researching.

Browser Recommendations and System Requirements

The Chilton Library System Requirements are as follows:

Recommended:

- High-speed internet connection
- Adobe Reader ®

Supported platforms and browsers:

- Windows
 - IE9 or higher, latest versions of Firefox and Chrome
- Mac OSX / iOS
 - Latest versions of Safari, Firefox and Chrome
- Android
 - Latest versions of Firefox and Chrome

Required:

JavaScript must be enabled on browser. Check your browser Help files for instructions on enabling JavaScript.

Adobe Reader® is required to view specific **Technical Service Bulletin (Bulletins/Recalls)** information as well as some drawings/photos in the **Repair** and **Maintenance** sections of this application. Any information will appear in a separate **Adobe Reader® Window**.

The following sample from the repair section of the Chilton Library application shows that a user can retrieve a larger view of an image using the **Adobe Reader®**.

By selecting on the **"click to enlarge"** as shown in **Figure 1**, the full size image will open in a new Adobe Reader® window as shown in **Figure 2**.

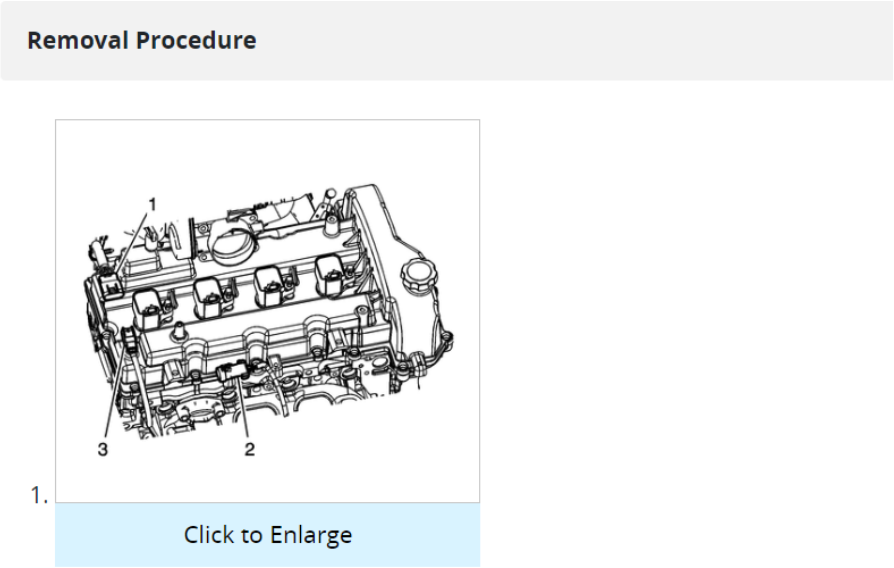


Figure 1

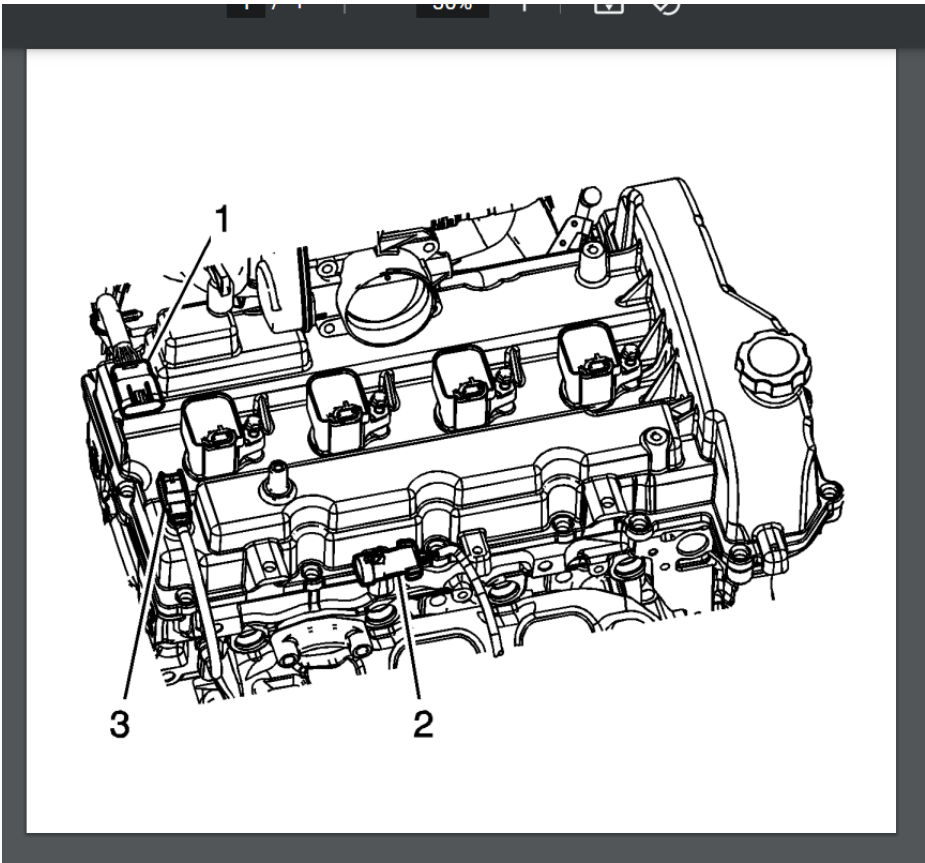


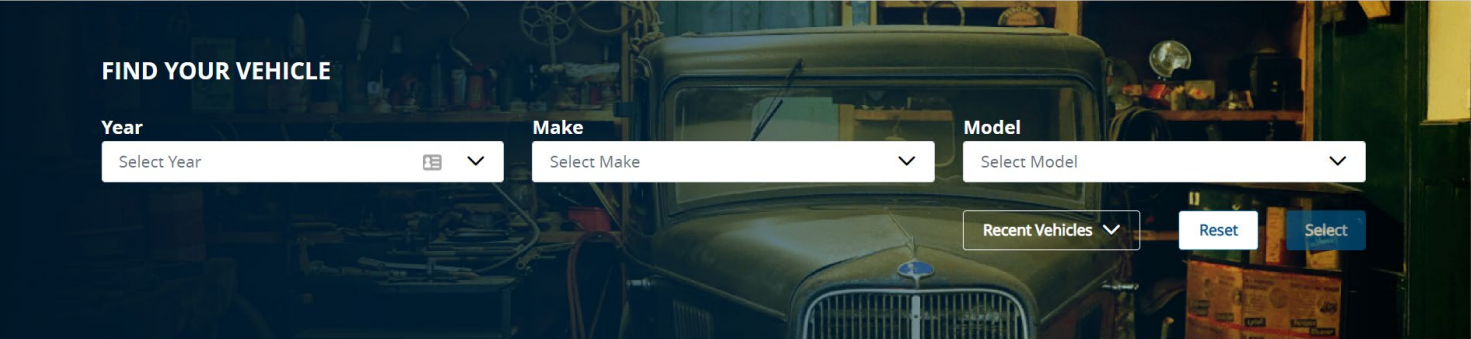
Figure 2

Chilton Library Functionality

Selecting a Vehicle

In order to examine any vehicle related information, you must first select the specific vehicle that you are interested in.

Using the left navigation bar on the homepage of the application, there are a series of drop-down menus that will give you the ability to select the vehicle you would like to research.

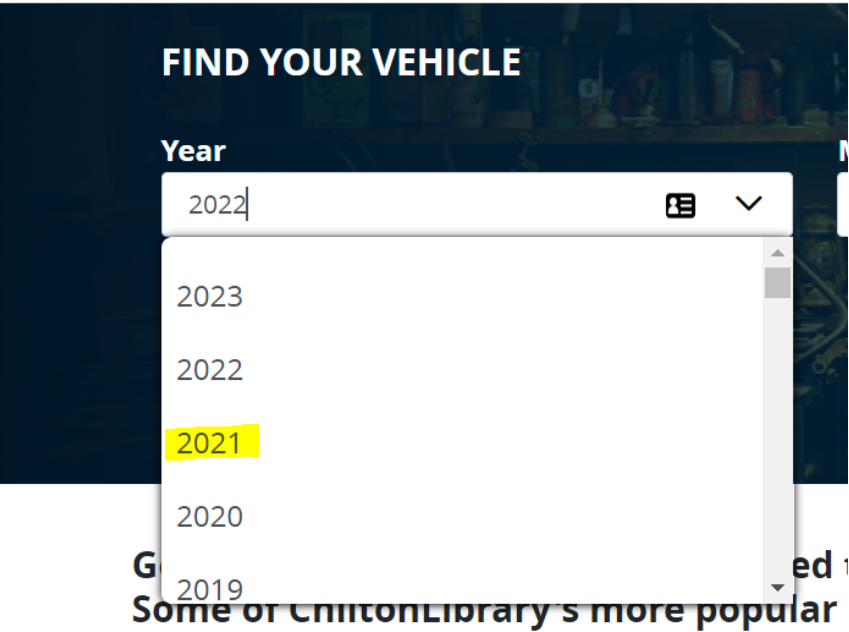


Get the detailed information you need to tackle vehicle maintenance and repairs.
Some of ChiltonLibrary's more popular features include:

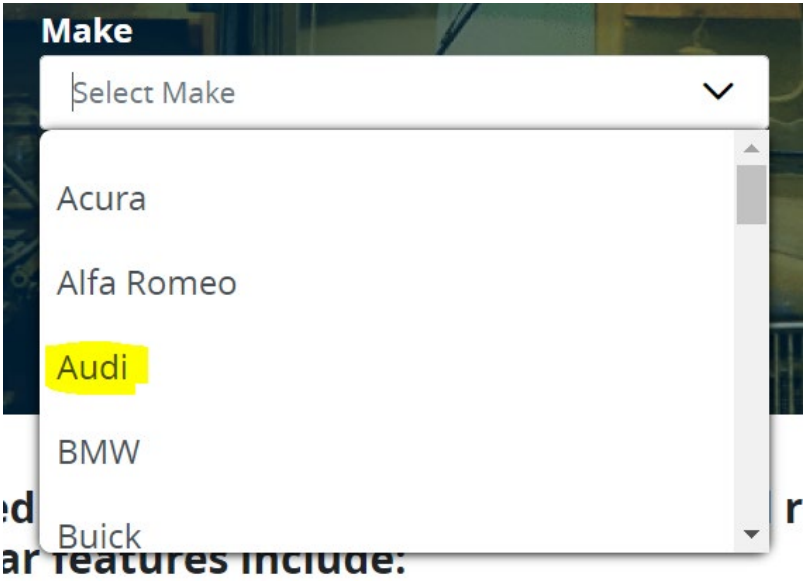
To start any search you must first select from the highest menu and work your way down until a full vehicle specification is selected.

Each drop-down menu is populated based on the selection that is above it. For example, the “**Select a Make**” drop down list is populated based on the “**Select a Year**” value that you select before it. Similarly, the “**Select a Model**” list is populated based on the **Year** and **Make** that you selected.

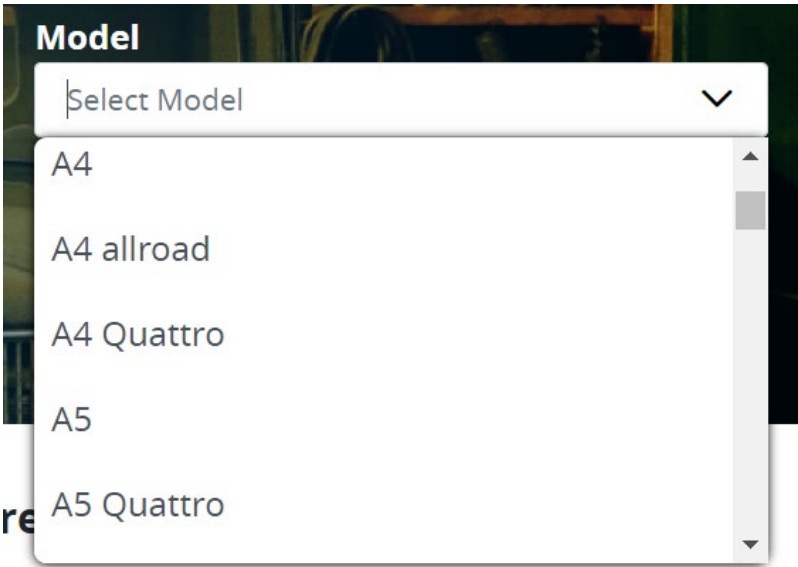
1. First, select the **Year** of the vehicle you would like to research



2. Next, select the vehicle **Make**



3. And finally, select the vehicle **Model**



Once the vehicle is selected, the Chilton Library application will compile your vehicle data and return with categories that are available.

Depending on what vehicle you research, you may return up to four categories of information. The bullet points below represent these possible categories which are **Repair, Maintenance, Labor Estimating** and **Bulletins/Recalls**.

If a category does not appear for the selected vehicle it means that Chilton Library does not yet have this information available for that vehicle.

Sample ASE Test Prep questions are also available under the **ASE Test Prep** menu option at the top of the page. Since these are not vehicle related they do not appear in the four main categories that change with vehicle availability.

YOUR CURRENT VEHICLE
2012 Ford F-150 [Change Vehicle](#)

Repair

Maintenance

Labor Estimating

Bulletins/Recalls

Table of Contents

<

Start your search...

Q

Please select a topic from the Table of Contents

2012 FORD F-150

4. Select a category from the vehicle selection results (shown above) to be navigated to that section of the Chilton Library application.

Note: Once you have selected your vehicle, any navigation on the application will be in relation to the vehicle you have selected. If you want to research a new vehicle you must click on the **Select Vehicle** tab again and select a new vehicle with the drop-down menus.

However, within the **Labor Estimating** module you will be able to change vehicles without having to go back to the **Select Vehicle** tab. **Labor Estimating** has its own vehicle selector which will initially be set to the vehicle you had previously chosen when you entered Chilton Library.

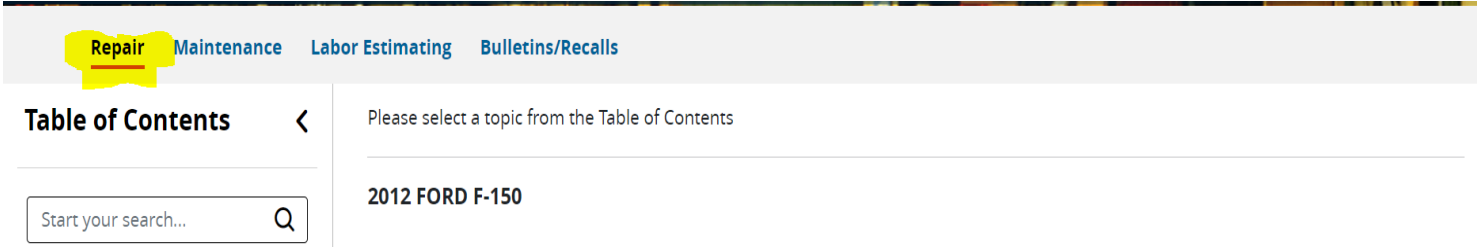
Repair

If the **Repair** category is available after initially [selecting a vehicle](#), you can now select it to research the Repair information for the currently selected vehicle.

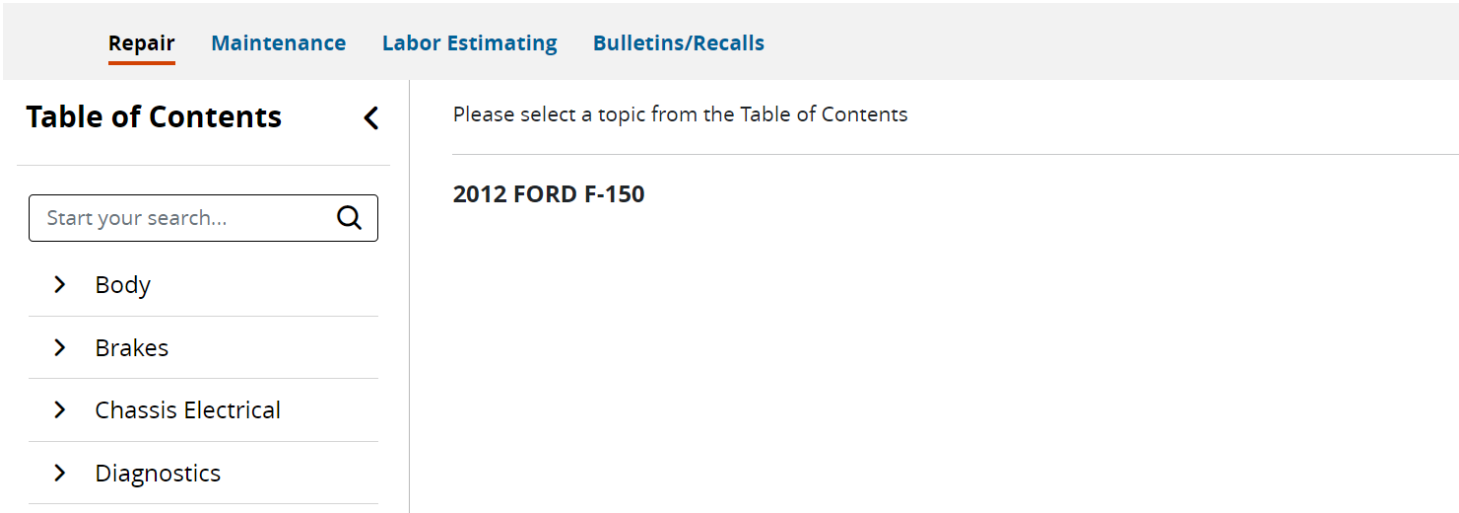
Note: This information will always be accessible even if you decide to research a separate category on this vehicle (i.e. **Labor Estimating**, **Bulletins/Recalls** or **Maintenance**). Simply select the **Repair** tab on the top navigation bar from any screen in order to return to the **Repair** screen of your current vehicle.

The steps following will illustrate how to navigate in the **Repair** tab of the Chilton Library application.

1. After selecting the **Repair** option from your **Vehicle Selection Results**, the application will navigate you to the Repair manual of the specific vehicle you have selected.



The window will be split into two separate panes. The left window will display all available **Repair** subcategories for the selected vehicle in a table of contents layout. The right pane will display the documentation from the subcategory which was selected.



Note: Repair subcategories on the left navigation may differ based on the vehicle you are researching.

2. The table of contents layout is highlighted and documented in the figure below. For sample purposes, we are going to obtain information on how to remove and install a fuel filter for a 2012 Ford F150:
 - a. Click one of the categories of the vehicle in the left pane that you would like information on. Using the figure below as a sample, the selection was **Fuel System**.

Once the selection has been made, a new series of selections under **Fuel System** will be displayed (i.e. *3.5L GDI, Removal and Installation, Fuel Rail and Fuel Injector – Exploded View*).

These are displayed as children of the root category **Fuel System**. They will also be represented by the breadcrumb trail at the top of the table of contents.

- b. Selecting the **3.5L GTDI** entry, which is a subcategory of **Fuel System**, will display any other categories that are associated with **Removal and Installation** procedures i.e. **Fuel Rail**

Since there are no other selections shown in the table of contents, **Fuel Rail** is the last level of subcategory.

▼ **Fuel System**

▼ **3.5L GTDI**

Description And Oper...

Diagnosis & Testing

Fuel Injection Pump R...

▼ **Removal And Install...**

Fuel Injection Pump

Fuel Injectors

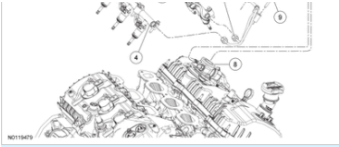
Fuel Pump Control ...

Fuel Rail

Fuel Rail and Fuel ...

Throttle Body

Specifications



Click to Enlarge

Item	Part Number	Description
1	—	RH fuel charge wire harness electrical connector (part of 12A581)
2	—	Fuel Rail Pressure (FRP) sensor electrical connector (part of 12A581)
3	—	LH fuel charge wire harness electrical connector (part of 12A581)
4	9D280	RH fuel rail
5	9D280	LH fuel rail
6	—	High pressure fuel tube-to-fuel injection pump flare nut (part of 9J323)

c. Selecting **Fuel Rail and Fuel...** will now display information on how to Remove and Install a fuel rail and fuel injector in the right window pane.

The right pane will now display all the detailed information for removing and installing a 2012 Ford F150 Fuel Filter.

NOTE

A clean working environment is essential to prevent dirt or foreign material contamination.

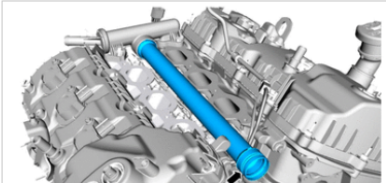
1. Release the fuel system pressure. For additional information, refer to [Fuel System — General Information](#).

2. Remove the intake manifold. For additional information, refer to [Engine — 3.5L GTDI](#).

3. Remove the thermostat housing. For additional information, refer to [Engine Cooling](#).

4. Remove the coolant inlet pipe.

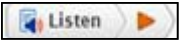
- Remove and discard the coolant inlet pipe O-ring seals.



↑

Feedback

Page 8 of 22

If you would like to have the text of the content pane read to you then click on the  button. This will open the document using **ReadSpeaker**™ text-to-speech functionality.

- Pause and Stop abilities are available.
- With the Settings button, users can change speed, highlighter color, and font size.
- Audio content from the Repair section can be downloaded in MP3 format for users to save and access offline.

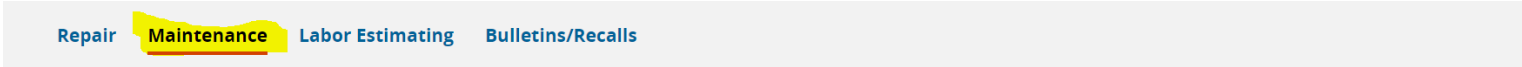
Vehicle Maintenance

If the **Maintenance** category is available after initially [selecting a vehicle](#), you can now select it to research the maintenance information for the currently selected vehicle.

Note: This information will always be accessible even if you decide to research a separate category on this vehicle (i.e. **Labor Estimating**, **Bulletins/Recalls's** or **Repair**). Simply select the **Maintenance** tab on the top navigation bar from any screen in order to return to the **Maintenance** screen of your current vehicle.

The steps following will illustrate how to navigate in the Maintenance tab of the Chilton Library application.

1. After selecting the **Maintenance** option from the **Vehicle Selection Results**, the application will navigate you to the Maintenance Chart for the specific vehicle you have selected.



Scheduled Maintenance Intervals

Vehicle Configuration

Full Chart List

Submodel	Liters	Fuel Type	# of Cylinders
Select	Select	Select	Select
Drive Type	Body Type	Transmission	Operating Condition
Select	Select	Select	Select

2. Once opened, you will be provided with a **Vehicle Configuration Filter**. This will allow you choose the following characteristics for the vehicle configuration you are interested in.

Each selection you make will filter the available choices in the following selections. For example, if you select “XLT” for the Sub Model on the sample vehicle shown, the Fuel Type filter will only contain those values that are valid for the “XLT” Sub Model.

As you choose each vehicle you will only be presented with values in the following filter that are valid for the filters you have already selected.

Alternatively, if you want to see all of the available vehicle configurations that are available you can select the “[full chart list](#)” link that is provided next to the **Vehicle Configuration Filter**.

From the full chart list you can simply select the vehicle configuration you are interested in to view the maintenance schedules.

Samples of the **Vehicle Configuration Filter** and **Full Chart List** are below.

Vehicle Configuration Filter Sample

Scheduled Maintenance Intervals

Vehicle Configuration

Full Chart List

Submodel

XLT

Liters

3.5

Fuel Type

GAS

of Cylinders

6

Drive Type

4WD

Body Type

Extended Cab Pickup

Transmission

Automatic

Operating Condition

Normal

Full Chart List Sample

Scheduled Maintenance Intervals

Vehicle Configuration

Full Chart List

Submodel	Body	Liter	Cylinders	Fuel Type	Drive Type	Transmission	Operating Condition
FX2	Crew Cab Pickup	3.5	6	GAS	RWD	Automatic	Select
FX2	Extended Cab Pickup	3.5	6	GAS	RWD	Automatic	Select
FX2	Crew Cab Pickup	5.0	8	FLEX	RWD	Automatic	Normal
FX2	Extended Cab Pickup	5.0	8	FLEX	RWD	Automatic	Severe
FX4	Crew Cab Pickup	3.5	6	GAS	4WD	Automatic	Select

Once a chart is selected you will be presented with mileage based service recommendations for that vehicle configuration and selected operating conditions.

To scroll back and forth between the different mileage intervals you can use the “<< Look Back” and “Look Ahead >>” links. These will move you backward or forward to the next recommended service interval.

You can also enter the vehicles current mileage in the “Enter Mileage” box and then select “View Service”. This will bring you to the recommended service interval for the mileage entered. This usually

rounds up the mileage to the next recommended service interval.

If you want to see the full maintenance chart with all defined service intervals you can select the “[View Full Chart](#)” link.

Scheduled Maintenance Recommendations Sample

Your **10000** mile under **Normal** condition includes

- **Inspect** Battery performance
- **Inspect** Radiator, coolers, heater and air conditioning hoses

These Recommendations also Apply

- **Inspect** Accessory drive belt(s) When the Engine Oil Change Due or Oil Change Required appears in the information display.
- **Inspect and Service, as necessary** Brake system (Inspect brake pads, shoes, rotors, drums, brake lines, hoses and parking brake system (adjust parking brake if required). When the Engine Oil Change Due or Oil Change Required appears in the information display.
- **Inspect and Service, as necessary** Cooling system, hoses, clamps & coolant strength When the Engine Oil Change Due or Oil Change Required appears in the information display.

Note: In some cases we may only have the full chart for a vehicle especially if it is an older model. When the full chart is the only choice available it will automatically be displayed without any selections required by the user.

Maintenance recommendations for each interval are shown along with footnotes that list any exceptions based on the vehicle configuration or operating conditions.

View Full Chart

XLT 6 Cylinder, 3.5 Liter, Automatic GAS, 4WD Extended Cab Pickup

PRINT

Back to Vehicle Configuration

Normal Service Schedule

Service Name	Type of Service	Vehicle Mileage Interval (x1000)														
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Accessory drive belt(s)	Replace	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Accessory drive belt(s)	Inspect	When the Engine Oil Change Due or Oil Change Required appears in the information display.														
Automatic transmisison fluid	Replace	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Battery performance	Inspect	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes

Your vehicle is equipped with a oil minder system that indicates when the engine oil should be changed under normal operating conditions.

This means you won't have to remember to change the oil on a mileage-based schedule; the vehicle lets you know when an oil change is due by displaying ENGINE OIL CHANGE DUE NEXT SERVICE or OIL CHANGE REQUIRED as indicated by the message center: do not exceed one year or 10,000 miles (16,000 km)

Notes: For extensive idling and or low speed driving, change engine oil and filter every 5,000 miles, 6 months or 200 hours of engine operation.

For commercial use or extensive idling, change spark plugs at 60,000 miles.

To reset the oil monitoring system to 100% after each oil change, perform the following:

1. Press and release the SETUP button to display "OIL LIFE XXX% HOLD RESET = NEW".
2. Press and hold the RESET button for two seconds and release to reset the oil life to 100%.

Note: To change oil life 100% value to another value, proceed to Step 3.

3. Once "OIL LIFE SET TO XXX%" is displayed, release and press the RESET button to change the Oil Life Start Value. Each release and press will reduce the value by 10% If the message center is prematurely reset or is inoperative, perform the oil change interval at 6 months or 5,000 miles from your last oil change.

For extensive idling and or low speed driving, change engine oil and filter every 5,000 miles, 6 months or 200 hours of engine operation.

3. To narrow down the items displayed you can use the **Advanced Filters** or the **Quick Search** boxes at the top of the page.

The **Advanced Filters** will let you search for Bulletins/Recalls by the affected System, vehicle operating Symptoms or a Diagnostic Trouble code. The values for these drop downs are populated based on the Bulletins/Recalls assigned to this vehicle so only valid values are listed.

ADVANCED FILTERS

Systems

All

Symptoms

All

Trouble Codes

All

QUICK SEARCH

Keywords

☐ Only Show Recalls

Reset

Search

The **Quick Search** box will allow you to enter a Bulletins/Recalls number if you already know it or any keyword that you want to search on. You can also search for just Recalls by selecting the “**Only Show Recalls**” checkbox. Once your criteria is entered click on the search button to get your results.

4. After your filtering has been done you will be presented with a list of Bulletins/Recalls matching that criteria.
- To view the Bulletins/Recalls simply point your mouse at the Bulletins/Recalls you want to view and click anywhere on the highlighted line.

To listen to the bulletin using **ReadSpeaker**™ hover over the “Listen” column and click on the  icon when it appears.

34 Search results found

Actions	Technical Service Bulletin (TSB) Description ↑↓	TSB# ↑↓	Issue Date ↓☰	Type ↑↓
 	2010-2021 Various Vehicles - Errors Caused By Swapping Modules From Like Vehicles Or Ordering Modules Using Another VIN	49819	07-21-2021	Technical
 	2011-2020 F-150/Mustang - 5.0L - Updated Secondary Chain Tensioner Service Part Compatibility	49318	07-21-2021	Technical
 	Various Vehicles - Seat Cover Concern Analysis (GSB)	20-7018	07-20-2021	Technical
 	Various Vehicles - Engine Failure Analysis	20-7062	07-20-2021	Technical, Information
 	Various Vehicles - Oil Leaks Weeps And Seeps	20-7065	07-20-2021	Technical
 	2008-2020 Ford, Mercury And Lincoln Vehicles - Module Reprograming	20-7023	07-20-2021	Technical
 	2010-2019 Various Vehicles - Turbocharged Engines - Oil Supply Filter Replacement When Replacing The Turbocharger Or The Turbocharger Oil Supply Tube	47948	06-27-2019	Technical

5. The select Bulletins/Recalls will now open up in a separate Adobe Reader® window for you to view.

A sample Bulletins/Recalls is on the following page.

ssm47830.pdf

1 / 1

100%

SSM 47830 - Some 2011-2014 5.0L Vehicles May Exhibit An Engine Noise Immediately After Installation Of A Secondary Timing Chain Tensioner.

Some 5.0L 4V engines may exhibit a tick/tap/rattle or knock immediately after secondary timing chain tensioner installation. In some cases the secondary timingchain tensioners are not fully released during installation.To confirm, remove both valve covers and inspect the secondary timing chains and tensioners. If thechain is loose fitting and the tensioner does not appear to be extended, using your hand depress the chain/guide and tensioner several times or until the tensioner releases taking up the slack in the chain. If the chain does not have slack, follow Workshop Manual Section 303-00 to diagnose. The Workshop Manual section303-01C has been updated to reflect the installation releasing process for the secondary timing chain tensioner.

APPLICABLE VEHICLES
2011 - 2014 TRUCK: F6 F150/LINCOLN MARK LT
2011 - 2014 TRUCK: F6 F150/LINCOLN MARK LT
2012 - 2013 CAR: ZF S197N MUSTANG
2011 - 2014 CAR: ZF S197N MUSTANG

Labor Estimating

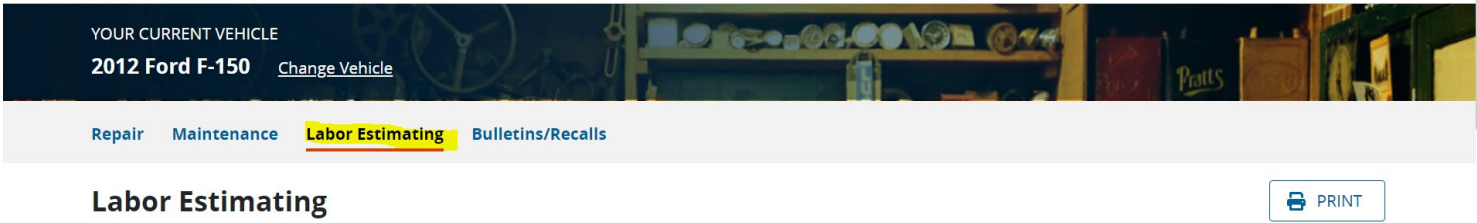
If the **Labor Estimating** category is available for your selected vehicle, you will have the ability to do a quick lookup of Chilton labor times for various operations that can be performed on your vehicle.

This information is updated in the system on an ongoing basis, ensuring that you will have the most up-to-date data on your selected vehicle.

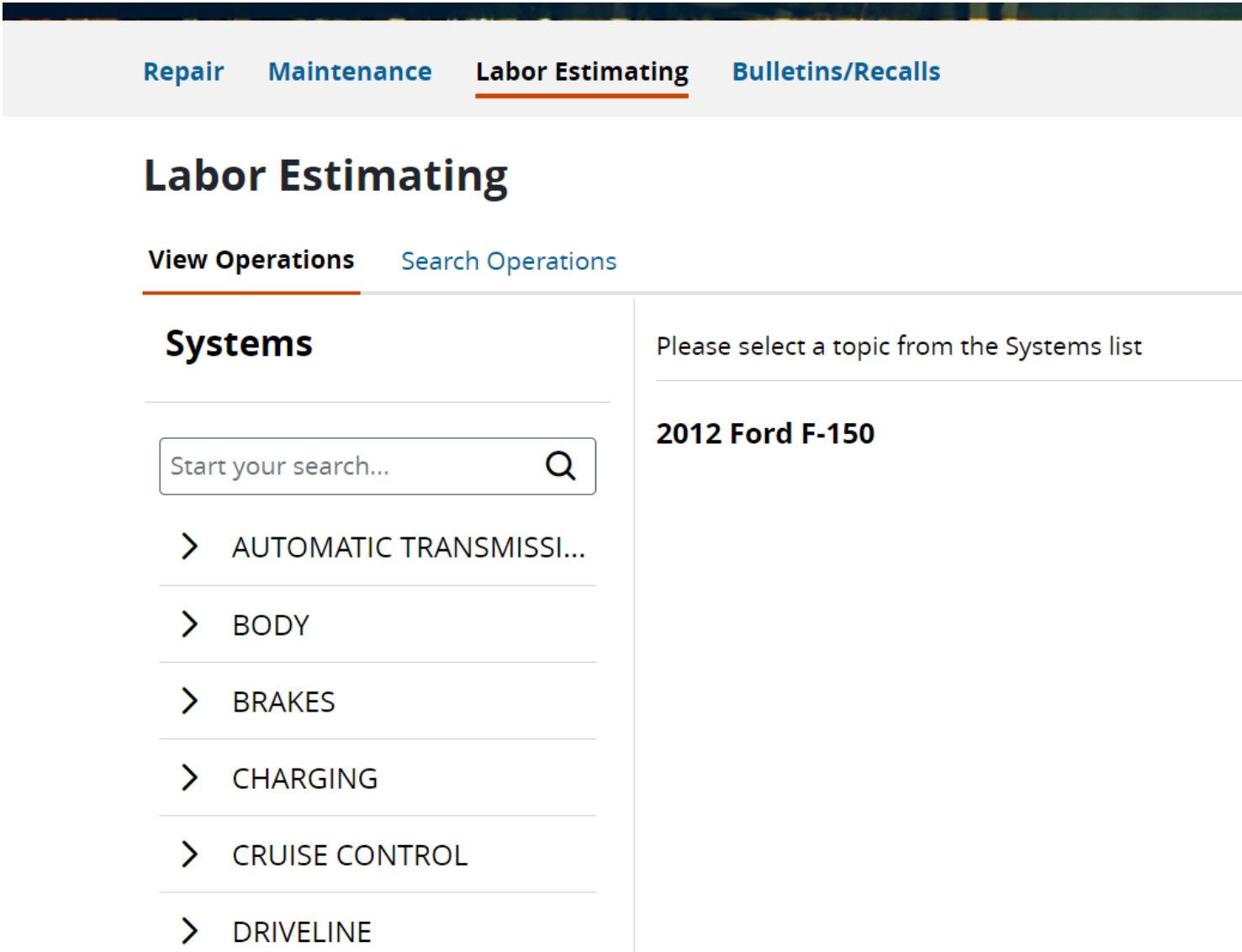
The following steps will show you how to navigate the **Labor Estimating** tab of Chilton Library.

1. After selecting your vehicle you will be presented with the **Vehicle Selection Results** which show the available categories for you vehicle. If the **Labor Estimating** link is available just click on it.

Note: You can also get to the Labor Estimating module by clicking on the **Labor Estimating** tab at the top of the page. This will take you directly from whatever other section of coverage you are using to the **Labor Estimating** coverage.



2. Once you click on the **Labor Estimating** link or tab you will see the **View Operations** window. This screen will allow you to search for a specific labor option or pick it from a tree of defined labor operations for your selected vehicle.



To find labor times for different operations you can use the **Search Engine** or the **System Tree** beneath the Search box.

3. To perform a text search for labor operations just enter the terms you are searching for like “caliper” in the text box and then click on the **Search** button. Select the **Show Times** link to view the **Standard Operations** that match the search text as follows:

Enter search term(s)

caliper

Search

System	Subsystem	Component	Operation	Action
BRAKES	SERVICE BRAKES	Caliper Assy.	Replace	Show Times

System

BRAKES

Subsystem

SERVICE BRAKES

Component

Caliper Assy.

Operation

Replace

Time Category

Regular

Severe

Description	OEM/ Dealer (hrs)	Chilton Time (hrs)
Front 10 lug wheel four wheels	2.3	3.4
Front 10 lug wheel one	0.8	1.2
Front 10 lug wheel two same ax	1.1	1.6

If you do not see the Labor Operation you expected you can refine your search by entering different search terms and clicking the “**Search**” button again.

4. Alternatively, to get the full tree of defined labor operations for your vehicle you can expand the **System Tree** to find an operation. The right-side pane will then display with the full labor operation times for the selected vehicle.

Labor Estimating

PRINT

View Operations Search Operations

Systems

Start your search...

Q

▼ AUTOMATIC TRANSMISS...

▼ SERVICE TRANSMISSION I...

Electronic Transmission, ..

Extension Housing Rear ..

Front Band, Adjust

Governor Assy., R&R or ...

Speed Sensor, Replace

> BODY

> BRAKES

Home > AUTOMATIC TRANSMISSION > SERVICE TRANSMISSION INSTALLED > Speed Sensor, Replace

System

AUTOMATIC TRANSMISSION

Subsystem

SERVICE TRANSMISSION INSTALLED

Component

Speed Sensor

Operation

Replace

Time Category

Regular

Severe

Description	OEM/ Dealer (hrs)	Chilton Time (hrs)
2009-14	0.2	0.3

Notes

By default, the available Labor Operations are listed for a Regular service type situation. This is noted by the **Time Category** label. The “**Regular**” time category identifies the labor times for most everyday normal use and wear/tear on a vehicle.

You can also get the Labor times based on a severe service schedule by clicking the radio button next to the “**Severe**” label. You will notice that the hours change due to the extra work involved when “Severe” service is taken into consideration (i.e. heavy use, high mileage, dirty or rusted items, etc.).

Systems

Start your search...

Q

- ▼

AUTOMATIC TRANSMISS...
- ▼

SERVICE TRANSMISSION I...

Electronic Transmission, ..

Extension Housing Rear ...

Front Band, Adjust

Governor Assy., R&R or ...

Speed Sensor, Replace
- >

BODY
- >

BRAKES
- >

CHARGING
- >

CRUISE CONTROL

Home > AUTOMATIC TRANSMISSION > SERVICE TRANSMISSION INSTALLED > Speed Sensor, Replace

System

AUTOMATIC TRANSMISSION

Subsystem

SERVICE TRANSMISSION INSTALLED

Component

Speed Sensor

Operation

Replace

Time Category

☒ Regular

☐ Severe

Description	OEM/ Dealer (hrs)	Chilton Time (hrs)
2009-14	0.2	0.3

Notes	
Regular (hrs)	Chilton suggested service times based on normal operating conditions
Severe (hrs)	Chilton suggested service times based on severe operating conditions
OEM/ Dealer (hrs)	OEM warranty times

In the example above the user has clicked through the labor tree to the Automatic Transmissions > **Service Tranmission Installed > Speed Sensor, Replace** options. The labor times shown are the number of recommended hours it would take to replace an actuator assemble on a 2012 Ford F150 used under regular conditions.

The labor times are further broken down by other categories in the lines that appear since they may cover more than one year, make, and model. Often different labor times are given depending on the engine configuration or some other vehicle configuration beyond the year, make, and model which was selected. The various labor lines will make those distinctions and give different labor times for those exceptions.

You will also notice that OEM times are listed. These are the recommended times from the manufacturers. The Regular and Severe times are times calculated by Chilton Editors based on real world experience.

Below are more extensive definitions of what is considered when calculating Regular and Severe service times.

Regular Service Times

Labor time consistent with an individual with mechanical repair knowledge and tools and a vehicle that does not exhibit advanced age, high mileage, lack of maintenance, abuse, and has not operated in a climate that creates extra effort needed to free up seized bolts, replace broken fasteners, remove rust, degrease and clean parts, etc.

Severe Service Times

Labor time consistent with an individual with limited mechanical repair knowledge and tools and/or a vehicle that does exhibit advanced age, high mileage, lack of maintenance, abuse, and has operated in a climate that creates extra effort needed to free up seized bolts, replace broken fasteners, remove rust, degrease and clean parts, etc.

Note: Chilton does not provide local labor costs as there are too many variables to consider with each repair and locality. Once you have the number of hours for an expected operation you can call around to get local labor rates and that combined with the labor times should give you a good idea of what a repair might cost.

ASE Test Prep

The **ASE Test Prep** area of ChiltonLibrary enables you to take sample ASE Test Preparation exams. There is a list of several test exams available. Selecting one will open the test in a new window.

These tests are all multiple choice and can be taken as many times as needed.

First, click on the “**ASE test prep quizzes**” from the main menu.

Note: Your vehicle selection does not matter. These samples are not vehicle specific.

Chilton ASE Technician Test Preparation (TTP) Quizzes

As demonstration versions of a comprehensive product, these test preparation exams provide only a high level assessment of overall readiness to pass an ASE certification exam.

Listed below are the titles of several ASE Test Preparation exam areas. By clicking on an exam title, you will be provided access to a demonstration version of Chilton's Online ASE Technician Test Preparation product.

Note: The quiz links below will open a new browser window.

Exam Title	No of Questions	Question Types
A1 - Automotive Engine Repair	15	Multiple Choice Questions
A2 - Automatic Transmissions & Transaxles	09	Multiple Choice Questions
A3 - Automotive Manual Drive Trains & Axles	12	Multiple Choice Questions
A4 - Automotive Suspension & Steering	15	Multiple Choice Questions

Then click on one of the sample tests you are interested in.

Chilton ASE Technician Test Preparation (TTP) Quizzes

As demonstration versions of a comprehensive product, these test preparation exams provide only a high level assessment of overall readiness to pass an ASE certification exam.

Listed below are the titles of several ASE Test Preparation exam areas. By clicking on an exam title, you will be provided access to a demonstration version of Chilton's Online ASE Technician Test Preparation product.

Note: The quiz links below will open a new browser window.

Exam Title	No of Questions	Question Types
A1 - Automotive Engine Repair	15	Multiple Choice Questions
A2 - Automatic Transmissions & Transaxles	09	Multiple Choice Questions
A3 - Automotive Manual Drive Trains & Axles	12	Multiple Choice Questions
A4 - Automotive Suspension & Steering	15	Multiple Choice Questions

To take a test, click the drop-down menu next to each question and select an answer.

Chilton ASE Technician Test Preparation (TTP) Quizzes

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Question 1

An engine that demonstrates a single cylinder misfire is being diagnosed performing a leak down test. Which of these is the Most-Likely cause of the condition?

- ☒ 5% leakage with air coming out of the crankcase
- ☐ 10% leakage with air coming out of the crankcase
- ☐ A faulty ignition wire
- ☐ Retarded ignition timing

Question 2

The customer complains that the engine cranks but does not start; among the first things to check should be:

- ☐ Valve train operation
- ☐ Battery voltage
- ☐ Compression
- ☐ Engine vacuum

Once completed click on the **Submit Quiz** link at the bottom of the page to reveal you results.

Test results are shown below.

Chilton ASE Technician Test Preparation (TTP) Quizzes

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Question 1

An engine that demonstrates a single cylinder misfire is being diagnosed performing a leak down test. Which of these is the Most-Likely cause of the condition?

Your Answer ✗ 5% leakage with air coming out of the crankcase	Correct Answer ✓ A faulty ignition wire
---	---

Question 2

The customer complains that the engine cranks but does not start; among the first things to check should be:

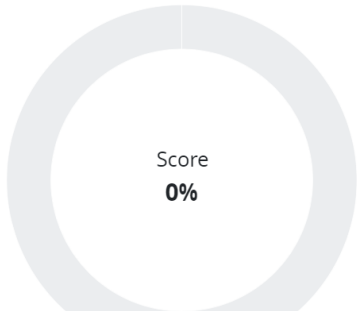
Your Answer ⊖ Not Attempted	Correct Answer --
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Question 3

View Result Summary

SCORE

0/15 15/15



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