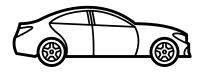


CHILTONLIBRARY

Mock Maintenance Challenge Stations 1-4





#1 Car Part Match-Up 🏅

#2

Flat Tire Fix

Materials

- Print diagrams of car systems (brakes, engine, tires) from ChiltonLibrary.
- Print out tool images
- Print repair steps on cards

Instructions

Match the part to the correct tool and correct repair step. Hide answers in envelopes labeled "Garage Bay 1,2,3" for a scavenger hunt vibe.

Materials

 Print out Chilton's step-by-step for changing a tire.

• Cut into strips.



Instructions

Teams must put the steps in correct order before the clock runs out.

Add in one or two silly 'wrong' steps (sing to your tire) to make it fun.



🔼 Dashboard Decoder

Materials



 Chilton printouts of dashboard warning lights.

#4

Mystery Repair

Materials

 Create a fake 'repair ticket' Use Chilton troubleshooting printouts with possible causes.

Instructions

Match the symbol with its meaning and recommended action from Chilton.

Each correct match reveals a letter / number clue leading to the final 'code' like unlocking a prize box.

Instructions

Identify the mjmost likely repair by cross-referencing symptoms with Chilton.

Solving unlocks the next case file.





#1 Instructions: Match the part → correct tool → correct repair step.

PART



Print and cut out on dotted lines. Mix up and separate into specific piles:

- Parts
- Tools
- Repair Steps

TOOL



Loosen the lug nuts before lifting the car.





#1 Instructions: Match the part → correct tool → correct repair step.

PART



Print and cut out on dotted lines. Mix up and separate into specific piles:

- Parts
- Tools
- Repair Steps

TOOL



Disconnect the negative cable before removing

the battery





#1 Instructions: Match the part → correct tool → correct repair step.

PART



Print and cut out on dotted lines. Mix up and separate into specific piles:

- Parts
- Tools
- Repair Steps

TOOL



Remove old spark plug and check the gap on the new one.







#1 Instructions: Match the part → correct tool → correct repair step.

PART



Print and cut out on dotted lines. Mix up and separate into specific piles:

- Parts
- Tools
- Repair Steps

TOOL



Unscrew the old filter and install a new one with fresh oil.







#1 Instructions: Match the part → correct tool → correct repair step.

PART



Print and cut out on dotted lines. Mix up and separate into specific piles:

- **Parts**
- **Tools**
- **Repair Steps**

TOOL



Remove the air filt housing clips and replace the filter

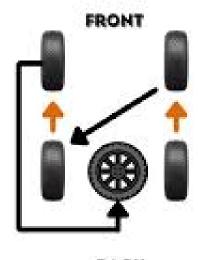






Instructions: Match the part \rightarrow correct tool \rightarrow correct repair step.

PART



BACK

Print and cut out on dotted lines. Mix up and separate into specific piles:

- Parts
- Tools
- Repair Steps

TOOL



Lift the car to remove and swap front and rear tires.







#1 Instructions: Match the part → correct tool → correct repair step.

PART



Print and cut out on dotted lines. Mix up and separate into specific piles:

- Parts
- Tools
- Repair Steps

TOOL



Press the release tab and slide the wiper blade off the arm.



Flat Tire Fix Challenge Station 2

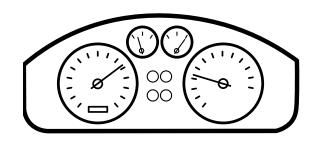




#2 Instructions: Put the repair steps in the correct order!

SAFELY PARK AND ENGAGE THE PARKING BRAKE.	
PLACE JACK UNDER THE CAR'S FRAME NEAR THE TIRE.	
LOOSEN LUG NUTS WITH A WRENCH.	43
RAISE THE CAR WITH THE JACK.	
REMOVE THE FLAT TIRE.	45
MOUNT THE SPARE TIRE.	46
TIGHTEN LUG NUTS SECURELY.	
TAKE A SELFIE WITH THE CAR.	CUT ON THE DOTTED LINES, MIX UP, AND HAVE PATRONS TO PUT STEPS IN ORDER.
PAT THE CAR FOR GOOD LUCK.	







Instructions: Match the dashboard symbol with its meaning and action.

SYMBOL



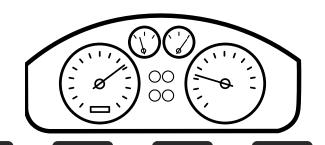
Print and cut out on dotted lines. Mix up and separate into specific piles:

- Symbol
- Meaning
- Action

MEANING
Low Oil Pressure

Check engine oil level and add oil immediately.







Instructions: Match the dashboard symbol with its meaning and action.

SYMBOL



Print and cut out on dotted lines. Mix up and separate into specific piles:

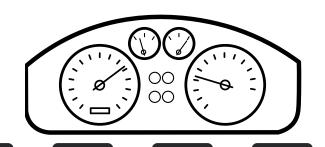
- Symbol
- Meaning
- Action

MEANING

Charging System Problem.

Check alternator and battery connections.







Instructions: Match the dashboard symbol with its meaning and action.

SYMBOL



Print and cut out on dotted lines. Mix up and separate into specific piles:

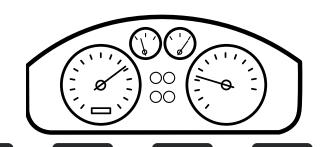
- Symbol
- Meaning
- Action

MEANING

Engine overheating.

Stop driving, let the engine cool, and check coolant.

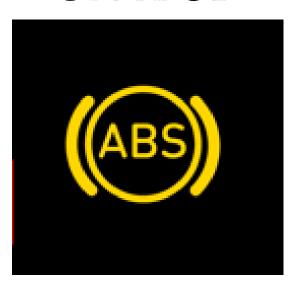






Instructions: Match the dashboard symbol with its meaning and action.

SYMBOL



Print and cut out on dotted lines. Mix up and separate into specific piles:

- Symbol
- Meaning
- Action

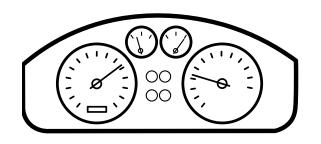
MEANING

Anti-lock braking system issue.

Have brakes
nspected--normal

braking may still work, but ABS is disabled.







Instructions: Match the dashboard symbol with its meaning and action.

SYMBOL



Print and cut out on dotted lines. Mix up and separate into specific piles:

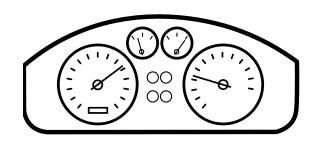
- Symbol
- Meaning
- Action

MEANING

Airbag system malfunction.

Have vehicle serviced - airbags may not deploy in







Instructions: Match the dashboard symbol with its meaning and action.

SYMBOL



Print and cut out on dotted lines. Mix up and separate into specific piles:

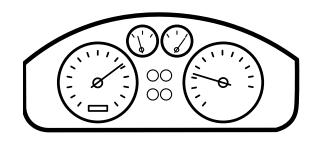
- Symbol
- Meaning
- Action

MEANING

Engine or emissions issue.

Use ChiltonLibrary to run diagnostics and troubleshoot.







Instructions: Match the dashboard symbol with its meaning and action.

SYMBOL



Print and cut out on dotted lines. Mix up and separate into specific piles:

- Symbol
- Meaning
- Action

MEANING

Brake system alert.

Check brake fluid level or disengage parking brake.





Case #1:



CAR WON'T START. WHEN I TURN THE KEY,
IT JUST MAKES A RAPID CLICKING NOISE.

Possible causes:

- 1. Dead Battery.
- 2. Alternator Failure.
- 3. Low Tire Pressure.





Likely Repair:

Replace or recharge battery.





Case #2:



WHITE SMOKE IS COMING FROM THE TAILPIPE AFTER I START THE CAR.

Possible causes:

- 1. Coolant leaking into the engine.
- 2. Worn-out brake pads.
- 3. Cracked Head gasket.





Likely Repair:

Diagnose coolant leak, head gasket issue.





Case #3:



STEERING WHEEL SHAKES WHENEVER I BRAKE AT HIGH SPEED.

Possible causes:

- 1. Warped brake rotors.
- 2.Low windshield washer fluid.
- 3. Loose wheel lug nuts.





Likely Repair:

Replace brake rotors.





Case #4:



TEMPERATURE GAUGE GOES INTO THE RED AFTER 15 MINS OF DRIVING

Possible causes:

- 1. Broken radiator fan.
- 2. Low coolant levels.
- 3. Faulty thermostat.





Likely Repair:

Check coolant and replace thermostat or fan.





Case #5:



CAR SHAKES WHEN IDLING AT STOPLIGHTS, ENGINE FEELS JUMPY

Possible causes:

- 1. Dirty air filter.
- 2. Worn spark plugs.
- 3. Flat spare tire.





Likely Repair:

Replace spark plugs or clean air filter.