

ANSWER KEY TO CHALLENGE SHEET

TRANSMISSION SERVICE CHALLENGE

Customer's Concern: My transmission fluid smells like burnt paper and is dark in color. The car shifts fine. I think that servicing the transmission now would help to prevent any troubles in the future.

Customer Vehicle: Subaru Legacy.

Possible Causes of This Challenge:

1. Transmission fluid is hygroscopic, meaning it absorbs moisture. This moisture causes fluid to oxidize and change color.
2. This vehicle has a high-performance engine that generates a fair amount of heat. This can cause the fluid to smell "burnt."

Safety First Practices to Follow:

1. Wear safety glasses at all times.
2. Follow lift operating instructions.
3. Remove all but two pan bolts. Then loosen both bolts several turns. This will allow the transmission to slowly drain and avoids fluid spills.
4. Follow all safety rules when using hand tools.

Tools and Equipment Required:

1. Hand tools.
2. Lb-in torque wrench.
3. Fluid and filter.
4. Pan gasket.