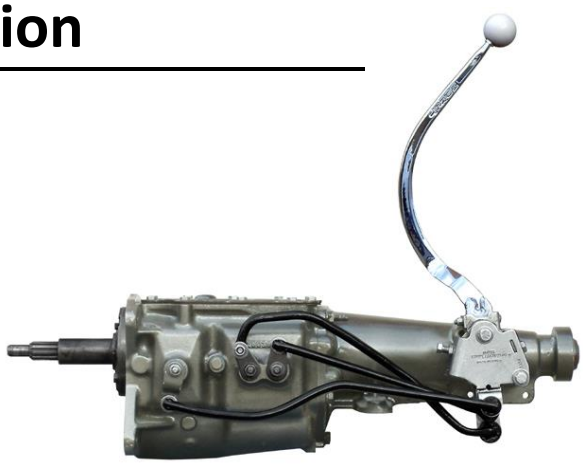
LAB – Standard Transmission

Students: 1. _____
2. _____

Fill in each box with the appropriate information.
Be sure to have the Instructor's initials before moving on to the next step. These are there to ensure everything is SAFE and CORRECT. Each team member must be able to answer questions from your instructor to receive credit for this lab.



LAB CREDITS

MOST TRANSMISSIONS: **1 LAB**

TRANSMISSION IDENTIFICATION

ASSESSMENT

1	Inspect that the transmission shifts into and rotates in all gears including reverse. Demonstrate to your instructor. Record what you found:

STOP! INSTRUCTOR'S INITALS:

DISASSEMBLY

2	Completely disassemble the Transmission. ASK FOR A DEMO IN REMOVING THE CLUSTER GEAR – THERE IS A TRICK!!! **I CANNOT STRESS THIS ENOUGH:** • KEEP EVERYTHING IN ORDER • DO NOT BREAK ANYTHING • DO NOT LOSE ANYTHING (synchros, snap rings, springs, bearings, etc.) Show it to your instructor once it is completely apart.

STOP! INSTRUCTOR'S INITALS:

INSPECTION

3

Inspect and spin (by hand) every bearing, looking for defects and feeling for noise. Bearings should be quiet and smooth. What did you find?

Inspect every synchronizer ring for wear on the teeth as well as the inner braking surface. Teeth should show no evidence of wear, and braking surface should have crisp, sharp edges. What did you find?

Inspect every gear tooth for wear on the teeth, chips, and cracks. Gears should be smooth and intact. What did you find?

STOP! ***INSTRUCTOR'S INITALS:***

REASSEMBLE

4

Reassemble the transmission.

There are some tricks to getting the cluster gear in.

Ask for help if it doesn't go the way you expect.

Don't reach for the biggest hammer first –

HAMMERS ARE FOR IDIOTS.

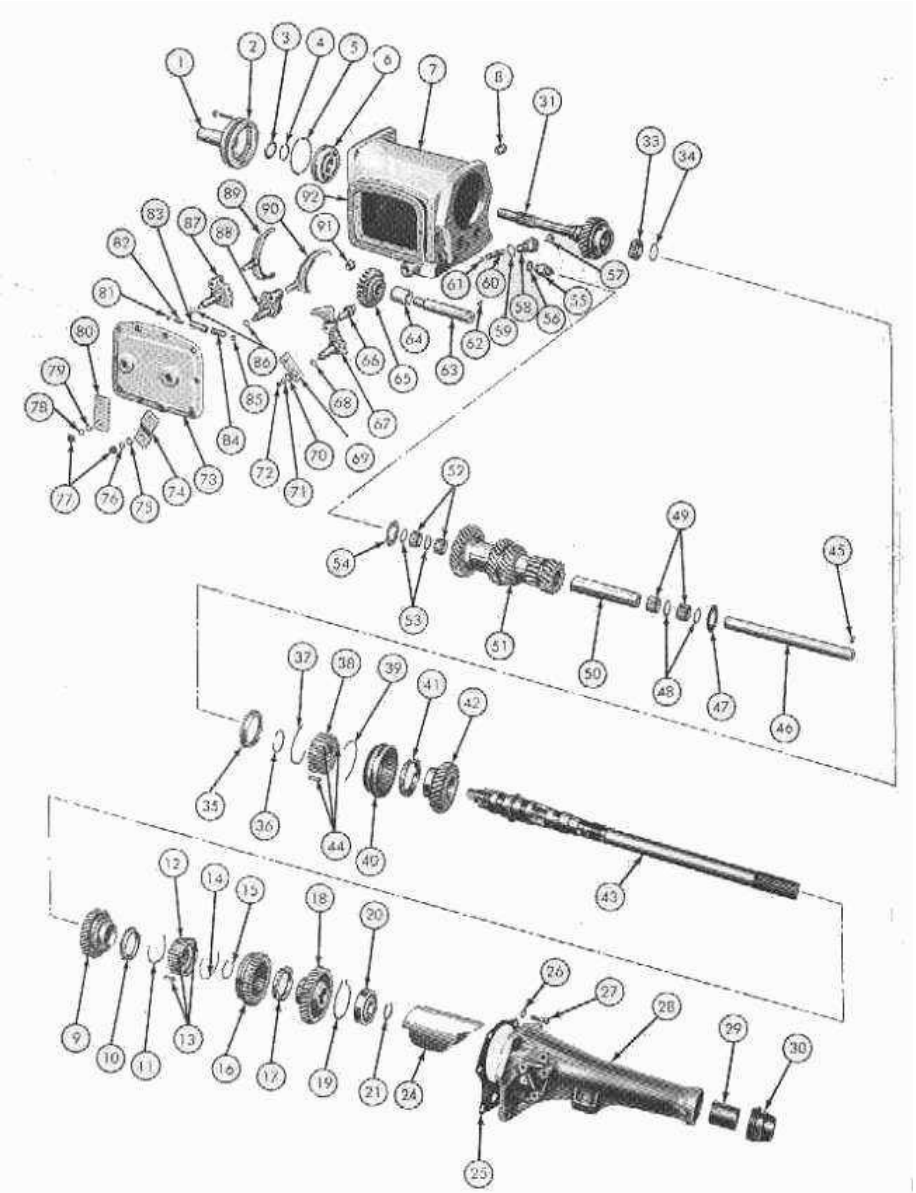


Fig. 17—A-833 Transmission Disassembled

1. A transmission grinds **GOING INTO** 2nd gear. What is the problem?

2. A transmission makes noise **WHILE IN** 3rd gear only. What is the problem?

3. A transmission makes noise in all gears **EXCEPT** 1:1 (4th in a 5-speed, 3rd in a 3-speed). What is the problem?

STOP! ***INSTRUCTOR'S INITALS:***

