Job Sheet: AT4 – Automatic Trans Overhaul

Objective: To familiarize student with the overhaul of a THM125 Transaxle (typical transmission).

Procedure: Follow procedures as outlined in service manual. Follow ALL steps in proper order. Record only the items required below.

- Inspect governor and seals for damage and record. ____________________
- Inspect servo and seals for damage and record. ____________________
- Check input shaft to case cover endplay and record results. ____________
- Is it within specs? ____________
- Check drive chain for stretch and record results. ______________
- Check reaction sun gear to input drum endplay and record results. __________
- Is it within specs? ____________
- Check low roller clutch race spacer endplay and record results. ___________
- Is it within specs? ____________
- Check final drive unit to case endplay and record results. _____________
- Is it within specs? ____________
- Inspect case and note any wear or damage. ____________________________
- Inspect final drive pinions for excessive endplay and record results. _______
- Is it within specs? ____________
- Inspect reaction carrier pinions for excessive endplay and record results. ____
- Is it within specs? ____________
- Inspect low and reverse clutch plates for damage and record results. ______
- Remove low-reverse clutch piston from housing and inspect condition of piston and seals and record results.

- Air check low-reverse clutch and record results.

- Inspect input carrier pinions for excessive endplay and record results.

- Is it within specs?

- Remove forward clutch piston from housing and inspect condition of piston and seals and record results.

- Inspect forward clutch plates for damage and record results.

- Assemble forward clutch assembly, measure clutch pack clearance and air check clutch.

- What is the clearance spec and is it within specs?

- Remove direct clutch piston from housing and inspect condition of piston, and seals and record results.

- Inspect direct clutch plates for damage and record results.

- Assemble direct clutch assembly, measure clutch pack clearance and air check clutch.

- What is the clearance spec and is it within specs?

- Inspect intermediate band and drum surface for damage or wear and record.

- Disassemble oil pump and inspect for wear and record results.

- What was your rotor thickness and is it within specs?

- Disassemble and inspect valve body and record any damage found.

- Check intermediate band apply pin length with gauge and record results.