HTG Basic Troubleshooting Quick Reference Guide

General Cautions				
Caution: Do not pressure wash the transmission	n to remove debris. Use a power blower to remove built up debris.			
Caution: Use of Foam/ Liquid filled tires is not r	ecommended.			
Problem/ Symptom	What to Check/ Look For/ Look At	Potential Repair Fix	<u>Dealer Fix</u>	If In Warranty Replace Transmission
Fluid Leakage	Expansion tank overfilled	Refer to OEM owners manual - Remove fluid and adjust to proper level	Х	
NOTE: Identify fluid leak location	Expansion tank overflowing (tank at normal level when cold, but completely filled when transmission is running)	Check for broken fan blades, debris build up, contaminated oil/ milky oil, excessive load or dragging brakes	х	
NOTE: Refer to owners manual for proper transmission fluid and fill volume.	Shaft seal leaking (Trunnion, Input, Motor Output Seal)	Replace shaft seal	Х	
	Filter leak- Check proper torque, inspect for seal damage, inspect for cap damage	If loose, torque to proper torque specification, if seal damage replace filter assembly, if cap cracked replace filter assembly	х	
	Static seals leaking (Side/ bottom cover)	Remove covers, install new seal, re-torque to proper torque spec	Х	
	Motor static seals leaking (motor section seals, motor top housing interface seals)	Dis-assemble transmission, remove pump section from motor, replace seals as necessary		х
	Drain plug is leaking	Torque to proper spec. If leak continues, remove drain plug, install new plug and washer, torque to proper spec, refill oil	х	
	SAE plug/ hose barb leaking	Check torque of fitting, if leak continues replace fitting assembly	Х	
Problem/ Symptom	What to Check/ Look For/ Look At	Potential Repair Fix	Dealer Fix	If In Warranty Replace Transmission
No Power	1. Proper fluid level	Refer to OEM owners manual - Check transmission fluid level, adjust as necessary	Х	
NOTE: Verify Engine is running / operation properly	2. Bypass lever position	Ensure lever is in the proper operating position	Х	
NOTE: Refer to owners manual for proper transmission fluid and fill volume.	3. Drive belt broken or lack of proper tension	Inspect belt and tensioner pulley and spring, repair as necessary	Х	
	4. Trunnion lever/ control linkage disconnected/ damaged	Inspect linkage and repair as necessary	Х	
	5. Internal components of transmission are damaged	Remove transmission, dis-assemble, repair/ replace as necessary		Х
Problem/ Symptom	What to Check/ Look For/ Look At	Potential Repair Fix	<u>Dealer Fix</u>	If In Warranty Replace Transmission
Low Power	1. Excessive load	Verify mower use conditions, reduce weight of load or towing amount	Х	
NOTE: Verify operating conditions (BELOW)	2. Low fluid level	Refer to OEM owners manual - check and fill as necessary	Х	
- Mowing? Heavy grass/ normal grass conditions	3. Belt tension	Refer to OEM owners manual - adjust belt tension to proper specification	Х	
- Towing? Trailer/ logs/ field maintenance equipment	4. Transmissions over heat	Check fan for broken blades, check for debris wrapped around pulley shaft	Х	
NOTE: Refer to owners manual for proper transmission	5. Engine speed low	Refer to OEM owners manual - Check RPM of engine to ensure proper operation	Х	
fluid and fill volume.	6. Control lever doesn't have full range of motion	Check linkage for interference or damage	Х	
	7. Brake Drag	Refer to OEM owners manual - for proper specified brake adjustment	Х	
	8. Pulley Loose- can spin on shaft	Verify proper nut torque for fan/ pulley, tighten as necessary	Х	
	9. Pulley Alignment (transmission to engine)	Verify pulley alignment with clutch/ engine, transmission pulley installed correctly	Х	
	10. Contaminated fluid/ filter clog	Drain fluid, install new filter, re-fill oil	Х	
	11. Worn internal components	Remove transmission, dis-assemble, repair/ replace as necessary		Х

Problem/ Symptom	What to Check/ Look For/ Look At	Potential Repair Fix	Dealer Fix	If In Warranty Replace Transmission
Lack of control/jerky control	1. Proper tire pressure	Refer to OEM owners manual - Verify proper tire inflation, adjust as necessary	х	
NOTE: Refer to owners manual for proper transmission fluid and fill volume.	2. Inspect control linkage dampeners	Inspect dampener for smooth and proper range of motion, replace as necessary	Х	
	3. Loose control lever/ linkage	Verify linkage connections, repair as necessary	Х	
	4. RTN function	Verify RTN bolt torque, RTN adjustment, repair as necessary	Х	
	5. Belt tension	Refer to OEM owners manual -verify proper tension, adjust as necessary	Х	
	6. Proper engine governor speed control (fluctuating RPM)	Refer to OEM owners manual - verify RPM, adjust as necessary	Х	
	7. Brake Drag	Refer to OEM owners manual - for proper specified brake adjustment	Х	
	8. Loose lug nuts	Refer to OEM owners manual - for proper torque specification	Х	
	Output axel shaft castle nut is loose	Inspect shaft, threads, and hub for damage, repair as necessary, and re-torque to proper torque specification	X	
	10. Internal components of transmission are damaged	Remove transmission, dis-assemble, repair/ replace as necessary		Х
Problem/ Symptom	What to Check/ Look For/ Look At	Potential Repair Fix	Dealer Fix	If In Warranty Replace Transmission
Noisy Unit	1. Excessive load	Verify mower use conditions, reduce weight of load or towing amount	Х	
NOTE: Verify location of the noise- engine/ deck/ transmission	2. Low fluid level	Refer to OEM owners manual - Check and fill as necessary	Х	
NOTE: Refer to owners manual for proper transmission fluid and fill volume.	3. Contaminated fluid/ filter clog	Drain fluid, install new filter, re-fill oil	Х	
	4. Internal components of transmission are damaged	Remove transmission, dis-assemble, repair/ replace as necessary		х
Problem/ Symptom	What to Check/ Look For/ Look At	Potential Repair Fix	Dealer Fix	Replace Transmission
Miscellaneous	Lack of brake holding power	Refer to OEM owners manual - for proper specified brake adjustment	Х	