



ISSUED: September 1992

REVISED: June 1995

SUBJECT: Peerless Hydrostatic Drive Units

MODELS OR TYPES AFFECTED: All 1800 Series, All VST Transaxles and Transmissions

All hydrostatic drive units that experience operating difficulties should be checked using the following diagnostic check list to determine if the cause is equipment related or hydrostatic drive related.

DIAGNOSTIC CHECK LIST

Check for dump valve engagement if equipped. Is the hydro dumped?

If yes, turn lever to not dumped position.

If no, continue.

Is the parking brake on?

If yes, release the parking brake.

If no, continue.

Is the brake adjusted properly? Is the brake releasing?

If no, adjust to specification.

If yes, continue.

Do the axles turn when the control lever is moved to a drive position with the engine running?

If yes, inspect wheels, hubs, and axle drive keys for damage or missing parts. Repair as needed.

If no, continue.

Does the control handle move the transaxle control lever?

If no, inspect the control linkage for damage.

If yes, continue.

Does the control lever turn the control rod coming out of the transaxle? The rod should turn with 150 to 200 inch pounds of torque, approximate.

If no, inspect and repair.

If yes, continue.



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Does the input turn with the clutch released?

If no, inspect for cause and correct.

Inspect the tractor's belt drive system for the following:

Is the drive belt installed correctly?

If no, repair per manufacturer's instructions.

If yes, continue.

Check the condition of the drive belt. Is the belt broken, frayed, stretched or cut?

If no, continue.

If yes, remove the old belt. With the drive belt removed turn the input pulley to ensure that it turns freely in the neutral position. If so, replace the drive belt.

If no, remove the unit for bench testing.

Is the belt tension within manufacturer's specification?

If no, inspect all clutch components for worn or broken parts. Repair and adjust to manufacturer's specification.

If yes, continue.

Inspect engine pulley. Is it loose? Is the drive key sheared?

If yes, repair or replace as necessary.

If no, continue.

Inspect hydro input drive coupling for loose or sheared bolts. Inspect the coupling for stripped serrations. Repair if necessary.

If after performing this inspection and repairing all broken parts and adjusting all components the tractor still will not drive, remove transaxle for bench testing.

External parts (brake components, control lever, input pulley, fan and hardware) can be serviced as usual.

After following the diagnostic check procedure and a defective hydro is indicated, any internal failure should be serviced as a complete hydro replacement. If the unit has failed during the warranty period, obtain replacement authorization as usual and order a new hydrostatic drive unit from your source of supply. Submit a valid authorized warranty claim addressed to Tecumseh Products Company, Service Division in Grafton, Wisconsin, for reimbursement under Tecumseh's Limited Warranty Procedure.