



Machine Does Not Achieve Full Ground Speed

Test Conditions:

- Machine parked on level surface.
- Key switch in STOP position.
- Park brake UNLOCKED.
- Transaxle in NEUTRAL.

NOTE: Steps 12 through 15 require removal of transaxle from machine.

Symptom: Machine Does Not Achieve Full Ground Speed

- (1) Transaxle free of debris?
 - Yes Go to next step.
 - No Remove debris from transaxle.

(2) Cooling fan not damaged.

Yes - Go to next step.

No - Replace cooling fan.

(3) Hydrostatic reservoir oil at full mark, at operating temperature, clean and not foamy?

Yes - Go to next step.

No - Fill reservoir to correct level. Drain transaxle and fill to correct level with specified oil. Bleed air from system. See "Hydrostatic Transaxle Bleeding Procedure" on page 405.

(4) Is the traction belt worn, frayed, glazed or stretched?

Yes - Replace traction belt. See "Traction Drive Belt Removal and Installation" on page 442.

No - Go to next step.

(5) Is the traction belt properly tensioned?

Yes - Go to next step.

No - Check belt tensioning. See "Traction Drive Belt Tensioner Assembly" on page 444.

(6) Is the park brake set?

Yes - Release park brake.

No - Go to next step.

(7) Swash plate and control lever not bent or worn?

Yes - Go to next step.

No - Replace damaged or worn components. See "Transaxle Disassembly" on page 414.

Symptom: Machine Does Not Achieve Full Ground Speed

(8) Brake linkage adjusted properly, brake rod and lever not damaged or binding?

Yes - Go to next step.

No - Adjust brake linkage. See "Brake Linkage Adjustment" on page 408. Eliminate binding and/or replace damaged components.

(9) Is the forward/reverse pedal linkage properly adjusted?

Yes - Go to next step.

No - Adjust linkage. See "Forward and Reverse Pedal Height Adjustment" on page 407.

(10) Does the forward/reverse pedal linkage move freely?

Yes - Go to next step.

No - Eliminate binding, replace faulty or damaged components. See "Control Pedals and Linkage" on page 445.

(11) Is the shock absorber binding or damaged?

Yes - Replace shock absorber.

No - Go to next step.

(12) Hydrostatic oil filter is free of debris, not plugged?

Yes - Go to next step.

No - Replace filter.

(13) Pump/motor rotating groups not scoring on case/cylinder block mating surfaces, or scoring on pistons?

Yes - Go to next step.

No - Replace rotating groups and center case. See "Transaxle Disassembly" on page 414.

(14) Freewheel linkage and lever move freely and are not damaged?

Yes - Go to next step.

No - Eliminate binding and/or replace damaged components.

(15) Check valve spools move freely, components not damaged?

Yes - Go to next step.

No - Clean, free up valves or replace valves. See "Transaxle Disassembly" on page 414.



M95586

POWER TRAIN - HYDROSTATIC DIAGNOSTICS



M99578, MIF

Park Brake Does Not Hold Machine On Hill

Test Conditions:

- Machine parked on level surface.
- Key switch in STOP position.
- Park brake UNLOCKED.
- Transaxle in NEUTRAL.

NOTE: Steps 12 through 15 require removal of transaxle from machine.

Symptom: Park Brake Does Not Hold Machine On Hill

(1) Brake pedal and linkage are not damaged, worn, or binding?

Yes - Go to next step.

No - Eliminate binding and/or replace damaged components.

(2) Park brake lever and linkage are not damaged, worn, or binding?

Yes - Go to next step.

No - Eliminate binding and/or replace damaged components.

(3) Brake disk, shoe and brake assembly are not damaged, worn, or binding?

Yes - Go to next step.

No - Eliminate binding and/or replace damaged components. See "Transaxle Disassembly" on page 414.

(4) Motor shaft with gear not damaged or worn.

Yes - Go to next step.

No - Replace shaft. See "Transaxle Disassembly" on page 414.

(5) Reduction shaft and gear not worn or damaged.

Yes - Go to next step.

No - Replace damaged or worn components. See "Transaxle Disassembly" on page 414.

(6) Final pinion and ring gear not damaged or worn?

Yes - Go to next step.

No - Replace damaged or worn components. See "Transaxle Disassembly" on page 414.

(7) Differential gears not damaged.

Symptom: Park Brake Does Not Hold Machine On Hill

Yes - Go to next step.

No - Replace gears. See "Transaxle Disassembly" on page 414.

(8) Axle shafts not damaged?

No - Replace axle shafts.See "Transaxle Disassembly" on page 414.



M99581, MIF

Brake Switch Will Not Engage

Test Conditions:

- Machine parked on level surface.
- Key switch in STOP position.
- Park brake UNLOCKED.
- Transaxle in NEUTRAL.

Symptom: Brake Switch Will Not Engage

(1) Transaxle free of debris?

Yes - Go to next step.

No - Remove debris from transaxle.

(2) Is the forward/reverse pedal linkage properly adjusted?

Yes - Go to next step.

No - Adjust linkage. See "Forward and Reverse Pedal Height Adjustment" on page 407.

(3) Does the forward/reverse pedal linkage move freely?

Yes - Go to next step.

No - Eliminate binding, replace faulty or damaged components. See "Control Pedals and Linkage" on page 445.

(4) Brake linkage adjusted properly, brake rod and lever not damaged or binding?

Yes - Go to next step.

No - Adjust brake linkage. See "Brake Linkage Adjustment" on page 408. Eliminate binding and/or replace damaged components.

(5) Does the brake switch have continuity with park brake locked?

Yes - Go to next step.

No - Test brake switch. See "Brake Switch Test" in the Electrical section. Replace switch as needed.

(6) Is the shock absorber binding or damaged?

Yes - Replace shock absorber.

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