

Troubleshooting Clutch Issues and Failures

Noise or rattle at low RPM

CAUSE	SOLUTION
This is caused by either the spring center of the disc is riveted solid, or the spring center of the disc is hitting stops, or there is excessive wear to the splines on the disc or the input shaft.	Replace disc

Noise when depressing clutch pedal

CAUSE	SOLUTION
Faulty pilot bearing	Replace pilot bearing
Faulty release bearing	Replace release bearing
Pilot bearing not installed	Install pilot bearing

Premature bearing failure on pull type clutch

CAUSE	SOLUTION
Poor maintenance	Grease bearing regularly
Bearing under constant load	Adjust release fork to release bearing pads

Clutch slips or does not hold under load

CAUSE	SOLUTION
Pressure plate assembly and/or disc are worn	Replace pressure plate and/or disc
Oil contamination on disc	Clean oil from disc or replace disc. Also check & replace PTO seal or rear crankshaft seal
Flywheel step machined improperly	Remachine flywheel to correct step specifications
Nuts or bolts used to pull levels down during installation were not removed	Remove nuts or bolts

Clutch won't release (release levers too low)

CAUSE	SOLUTION
Flywheel step machined improperly	Remachine flywheel to correct step specifications
Pressure plate and/or disc bent (Tractor forced back together or disc dropped)	Replace pressure plate and/or disc
Disc distorted by heat	Replace disc
Disc too thick	Replace disc with a thinner disc
Clutch installed backwards	Turn disc around

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Clutch releases prematurely (release levers too high)

CAUSE	SOLUTION
Disc worn	Replace disc
Flywheel step machined improperly	Remachine flywheel to correct step specifications
Disc too thin	Replace disc with thicker disc

Jumpy engagement or poor release

CAUSE	SOLUTION
Disc bent (Tractor forced back together or disc dropped)	Replace disc
Disc distorted from heat	Replace disc
Pressure plate not adjusted correctly	Replace pressure plate or adjust levers to correct specification
Flywheel not ground to crankshaft mounting flange	Remachine flywheel to correct specification
86 Series cab mount worn excessively	Replace cab mounts
Release lever cracked or broken	Replace pressure plate or release levers
Pressure plate pivot block loose	Replace pressure plate
Disc binding on input shaft.	Clean splines or replace disc if splines are worn
Pressure plate not flat in flywheel	Inspect flywheel to ensure pressure plate mounting surface is not tapered
Faulty pilot bearing	Replace pilot bearing

Release levers burnt

CAUSE	SOLUTION
Faulty release bearing	Replace pressure plate or release levers and release bearing
Worn linkage, release bearing riding against levers	Replace pressure plate or release levers
Riding clutch	Replace pressure plate or release levers and instruct operator to remove foot from clutch pedal
Defective clutch booster	Rebuild or replace booster

Clutch disc hitting crankshaft mounting bolts

CAUSE	SOLUTION
Flywheel machined below minimum specification	Replace flywheel

Finger adjustment incorrect on Massey Ferguson tractors with Spicer dual style clutch

CAUSE	SOLUTION
Air Ring was left out	Replace Air Ring