

GXP Mobile Shear Troubleshooting Guide

HYDRAULICS

Symptom	Possible Causes/Solutions
Low power	Check operating pressures and back pressure at port blocks on shear
	Isolate shear from excavator and check excavator pressures at boom tip
	Shear may be partially stuck in regen mode; follow adjustment procedure in Safety, Operator's and Parts Manual
	If speed is good with low power, internal seals on logix cartridge may need to be replaced
	Possible cylinder, swivel or regen bypass; contact the Genesis Service Department for procedures
Slow jaw open with low power	Pilot check valves in the regen valve may have worn or damaged seals
Slow jaw close	Check hydraulic flows from excavator
	Check regen valve adjustment if shear is new
	Adjustment cartridge may have damaged seals or may be stuck open
	Regen check valve or logix valve may have damaged seals or may be stuck open
Good speed but shear stalls before cutting	Regen adjustment cartridge is turned in too far, not shifting out of regen mode
Jaw drifts closed or can be pushed closed	Regen bleed down orifice may be plugged
	Regen pilot check valves may be leaking
	Directional valve on excavator may be leaking
Jaw closes suddenly and will not open	Ball valve may be closed on excavator
	Regen pilot check valves may be contaminated
	Excavator valve spool may be stuck
	If shear has quick-coupled hydraulics, they may be partially disconnected or damaged
Hydraulics chatter while cutting	Tighten regen adjustment cartridge in quarter-turns and recheck speed
	Chattering may indicate a material jam
Jaw bounces back after hitting excavator relief on jaw open	Regen bleed down orifice is plugged
	Regen logix cartridge needs to be replaced/cylinder or swivel seal failure
Loud bang when shifting to speed mode	Broken spring or poppet in logix cartridge (regen valve)
Hydraulic system overheating	Check hydraulic system oil level for low or overfull condition
	Ensure clear path for hydraulic cooler-radiator and AC condenser; clean coolers and radiator with compressed air and then pressure wash
	Check with excavator dealer on whether a hot weather package needs to be installed on the excavator. Oil temperatures coming out of the shear can run as high as 230 to 240° F (110 to 116° C).

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CUTTING

Symptom	Possible Causes/Solutions
Poor cutting	Material is beyond shear appetite range
	Material is harder than mild steel
	Blades are worn beyond 1/8" radius - rotate or replace
	Blade gaps are too wide for thin material
	Blade protection strips are too high, causing jaw deflection and excessive blade gaps
	Piercing tips are worn and need to be squared up or replaced
	Too much end play in pivot group - shim to 0.002" to 0.005"
	Wear in main bearings is causing jaw deflection and inconsistent blade gaps
	Pressures from excavator too low - check at shear port blocks
	Shear not kicking out of regeneration or kicking out at too high a pressure range - see Regeneration Valve section of Safety, Operator's and Parts Manual
	Shear swivel or cylinder is bypassing; contact the Genesis Service Department for procedures to check for bypass
Poor piercing	Piercing tips are worn and need to be squared up or replaced
	Guide blades are worn - rotate or replace
	Excessive or insufficient gaps at piercing tip and guide blades - shim to specs indicated in Guide Blade section of Safety, Operator's and Parts Manual
Material jamming	Excessive blade gaps - shim to specs indicated in Cutting Blade section of Safety, Operator's and Parts Manual
	Worn blades - rotate or replace
	Excessive or insufficient gaps at piercing tip and guide blades - shim to specs indicated in Guide Blade section of Safety, Operator's and Parts Manual
	Thin material may be wrapping around blades - fold material or draw a larger amount of material into jaws
	Thin material in opening between the guide blades before the piercing tips entered the lower jaw - operators must be aware of this area at all times

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ROTATION

Symptom	Possible Causes/Solutions
Does not rotate	Blown fuse
	Test for 24V at plugs on directional valve while depressing foot switch
	Incorrect pressure settings; reset
Does not rotate in one direction	No electrical power to one side; test for 24V at plugs on directional valve while depressing foot switch
	Check if directional control valve shifts both ways while actuating foot switch in both directions
Rotator chatters	Electrical short; back out flow controls
	Pressure settings too high; reset
	Power to both rotation solenoids at the same time; test for 24V at plugs on directional valve while depressing foot switch
Rotates faster in one direction	One flow control cartridge is set higher than the other; reset
Rotates too fast or too slow	Flow control out of adjustment; reset
Rotation speed changed from original setting	Jam nut loosened on rotation valve
	Faulty cartridge (contamination)
	Faulty directional control valve
	Pressure set too low; reset

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