Troubleshooting Guide





PROBLEM	POSSIBLE CAUSE	SOLUTION
	Frayed wiring or bad connector(s)	Repair or Replace. Clean Connectors
Low voltage supply	Defective PTO switch	Repair or Replace
(Less than 13.2 VDC at the clutch)	Defective charging system	Repair Engine
	Low coil resistance	Replace with new Xtreme clutch
No power at the clutch connection	Short in wiring or bad connector(s)	Repair or Replace
	Defective PTO switch	Repair or Replace
	Blown Fuse	Look for frayed wire and repair
Incorrect coil resistance	Defective clutch coil	Replace with new Xtreme clutch
	Rotor/armature airgap too large	Replace with new Xtreme clutch
Power at the clutch connector, but the	(greater than .125"/3.18mm). End of	
clutch does not engage	useful life	
	Bad clutch coil	Replace with new Xtreme clutch

Symptom: Clutch is Slipping

PROBLEM	POSSIBLE CAUSE	SOLUTION
Contaminated clutch friction surfaces	Engine oil leaking on the clutch	Repair oil leak. Disassemble clutch,
		clean armature, rotor, and brake
Overloaded clutch (overheating)	Deck is clogged with grass	Remove excess grass from deck
	Bad blade spindle bearing or idler	Replace spindle(s) and or idler
	pulley bearings	pulley(s). Replace belt
	Defective battery	Load test battery – replace battery
Low voltage supply	Defective wiring or connectors	Repair or replace
(less than 13.2 VDC at clutch)	Defective PTO switch	Replace PTO switch
	Defective charging system	Repair engine
	Defective clutch lead wire	Repair or replace with new Xtreme
		Clutch
Oil on the V-belt	Hydraulic or engine oil leak	Repair lead and replace belt (once oil
		soaks into a belt it is ruined)



If the clutch has broken rivets they COULD separate and cause risk of personal injury

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Symptom: Noisy Clutch and/or Vibration



PROBLEM	POSSIBLE CAUSE	SOLUTION
Clutch is loose on the crankshaft	The mounting bolt is too long and bottoms out on the engine crankshaft before clamping clutch	Replace with the correct length and grade bolt. Inspect clutch bearings
	The mounting washer is too thin and deforms when the bolt is tightened	 Replace with the correct grade 5 washer. " thick minimum. Do not use standard washers
	Loose mounting bolt (the bolt is not torqued properly)	Replace bolt and torque to specifications
	The crankshaft is bottomed on the D-Spacer. The D-Spacer should never touch the crankshaft.	Replace the bolt and use the proper spacer (1/4" thick minimum). Do not use standard washers
Clutch not mounted square	The D-Spacer mounting shoulder is not	Replace D-Spacer and bolt
	square	Increase chamfer on D-Spacer or replace.
	Incorrect or no chamfer on D-Spacer	Replace the bolt
		Replace with new Xtreme clutch
	Bad clutch bearings	
Clutch bearing failure	Loose mounting (bolt not torqued properly)	Replace with new Xtreme clutch and bolt
	Over torqued mounting bolt. (bolt too tight)	Replace with new Xtreme clutch and bolt
	Clutch body movement restricted	Repair or replace anti-rotation device and
		replace clutch and bolt
	The engine overheated and melted the	Replace with new Xtreme clutch and bolt.
	bearing grease	Repair engines overheat problem
Clutch rattles against the anti-rotation device	A little noise is normal on some mowers	If noise is excessive, repair or replace anti-
		rotation device (follow OEM's specs)
	Damaged anti-rotation device	Repair and replace
	Bent crankshaft	Replace crankshaft, clutch, and bolt
Clutch wobbles	Bad clutch bearings	Replace with new Xtreme clutch and bolt

Symptom: Clutch Brake is Not Stopping Blades within 6-8 Seconds

PROBLEM	POSSIBLE CAUSE	SOLUTION
Contaminated clutch friction surfaces	Engine oil leaking on the clutch	Repair oil leak. Disassemble clutch, clean armature, rotor, and brake
Clutch armature/brake poles wore out	End of usable life	Replace with new Xtreme clutch
Clutch is always powered up	 PTO switch defective Short in electrical system Clutch bearing failure (severe) 	 Replace PTO switch Repair Replace with new Xtreme clutch and bolt