

## Troubleshooting Quick Cuts

This info is from the **Husqvarna K970** manual, but many machines are similar.



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## 25. TROUBLESHOOTING

### 25.1. ENGINE DOES NOT START

Remove the spark plug from the cylinder, and holding the cylinder, pull the recoil starter and check whether any sparks appear between the spark plug electrodes.

Symptom/Category	Cause	Action
<b>There are no sparks at the spark plug</b>		
Spark plug	1. The spark plug electrodes are wet	Dry them
	2. Carbon has built up on the spark plug electrodes	Remove the carbon or replace with a new one
	3. Insulation is poor due to cracks, etc. on the spark plug insulator	Replace with a new one
	4. The gap between the spark plug electrodes is excessively small or large	Champion RCJ 6Y/NGK BPMR 7A: Adjust to 0.5 mm
Magneto	1. Poor coil insulation	Replace
	2. The cable trunking has been damaged or the cable is broken	Repair or replace
	3. Poor air gap between the rotor and coil	Adjust to 0.3 mm
	4. Damage to the plug and gap spring	Replace
Switch	1. The switch is OFF	Set the switch to the left position
	2. The switch is faulty	Replace
	3. The primary wire is earthed	Repair or replace
<b>There are sparks at the spark plug</b>		
Compression is good and fuel flows	1. Excessive fuel intake	Discharge the excess gas
	2. Too rich adjusted carburettor	Repair, adjust or replace the carburettor
	3. Overflow	Adjust or replace the carburettor
	4. The air filter is too dirty	Replace the air filter
	5. Poor quality fuel is being used	Replace with good quality fuel
Fuel flows, but compression is poor	1. The spark plug is loose	Tighten
	2. Wear or damage to the cylinder, piston	Replace
	3. Gas is leaking from around the cylinder and crankcase	Replace gasket with new one and re-assemble
No fuel flows	1. Poor carburettor adjustment	Adjust
	2. Blockage inside the carburettor	Clean
	3. Blockage in the fuel filter	Clean or replace the fuel filter
	4. Fuel hose damage or blockage	Adjust

## 25.2. ENGINE STOPS WORKING DURING OPERATION

Symptom/Category	Cause	Action
<b>There are no sparks at the spark plug</b>		
Engine suddenly stops	1. The switch has accidentally been set to off	Set the switch to the left position
	2. The plug cap has come off	Fit it completely back on
	3. The switch cable or high-voltage cable trunking is worn	Replace
	4. Internal fault in the coil	Replace
	5. The engine has burned out	Disassemble and repair
	6. The breather air vent is blocked	Clean
Rotation gradually decreases and the engine stops	1. Lack of fuel	Fill with fuel
	2. Blockage inside the carburettor	Clean
	3. There is water in the fuel	Discharge and clean the inside of the tank, then fill with good quality fuel
Rotation suddenly increases, and then the engine stops	1. Lack of fuel	Fill with fuel
	2. The breather air vent is blocked	Clean
	3. Blockage inside the carburettor	Clean

## 25.3. ENGINE IS DIFFICULT TO START

Symptom/Category	Cause	Action
Engine suddenly stops	1. The engine is running lean	Adjust, repair or replace the carburettor
	2. Blockage due to dirt in the air passage for cooling	Clean
	3. Blockage due to dirt on the cylinder fin	Clean
	4. Poor quality fuel is being used	Replace with good quality fuel
	5. Carbon has collected in the combustion chamber (run-on occurs)	Clean
	6. The spark plug tip is red hot	Champion RCJ 6Y/NGK BPMR 7A: Adjust to 0.5 mm
Switch	1. Faulty switch	Replace
	2. Cable is broken	Replace
	3. Internal fault in the ignition module	Replace

## 25.4. INSUFFICIENT OUTPUT OR UNSTABLE ROTATION

Symptom/Category	Cause	Action
Compression is good and there is no flame out	1. Air has entered through the fuel pipe joint, etc.	Insert it securely
	2. Air has entered the fuel pipe due to a crack or pin hole	Replace
	3. Air has entered through the insulator pulse pipe insertion part, etc.	Insert it securely
	4. Air has entered through the insulator and carburettor installation part	Replace or tighten the gasket
	5. Air has entered through the oil seal, etc.	Replace
	6. There is water in the fuel	Discharge and clean the inside of the tank, then fill with good quality fuel
	7. The piston appears to have been burned	Remove the burn with a fine file, or replace
	8. Carbon blockage in the muffler	Clean
Excessive heat	1. The engine is running lean	Repair or replace the carburettor
	2. Blockage due to dirt in the air passage for cooling	Clean
	3. Blockage due to dirt on the cylinder fin, etc.	Clean
	4. Poor quality fuel is being used	Replace with good quality fuel
	5. Carbon has built up in the combustion chamber	Clean
	6. The spark plug tip is red hot	Champion RCJ 6Y/NGK BPMR 7A: Adjust to 0.5 mm
Other	1. The air filter is too dirty	Replace the air filter
	2. Excessive load	Reduce the load

## 25.5. OTHER ENGINE PROBLEMS

Symptom/Category	Cause	Action
Even if the engine revolution is decreased, the blade does not stop	1. The clutch spring is broken	Replace the engine's clutch spring
	2. The clutch is open due to rusting of the clutch bolts	Remove rust from clutch bolts, apply grease and re-assemble
Even if the engine revolution is increased, the blade does not rotate	1. Drum bearing is stuck	Replace
Abnormal vibration	1. Blade eccentricity	Fit a new blade. Make sure that the right arbor bushing is used
	2. Abnormal vibrations. Anti vibration element is broken	Replace

Bibra Lake 0419 901 533

UNITED  
**DAMOND**  
TOOLS



Unit 10 / 84 Barberry Way  
Bibra Lake WA 6163  
Tel 08 9434 6878  
Mob 0419 901 533  
sales@udt.com.au  
www.udt.com.au  
ABN 12 621 543 173