



POWER SMART
&
SNOW DEVIL

Troubleshooting

Troubleshooting

Snow Blower - DB7659 and DB7651 (with LCT 208cc engine)

Problem	Possible Causes	Remedy
<p>WARNING - Before attempting to make any inspections, repairs or adjustments, stop the engine, wait for all moving parts to stop moving and carefully disconnect the engine spark plug wire. If tipping or turning the snow blower is required for any inspection or repair, first wait until the engine is cool to the touch and then drain the engine of all fuel and oil into suitable containers and store or dispose of in a proper manner.</p>		
<p>Engine Systems - Note: For all engine problems, see the Engine Operator's manual for additional troubleshooting information and engine manufacturer contact information.</p>		
Engine Fails to Start (Engine cranks over)	1 Engine ignition switch in OFF position	1 Position engine ignition switch to ON
	2 Spark plug wire disconnected	2 Connect wire to spark plug
	3 Faulty spark plug	3 Clean, adjust gap, or replace spark plug, see Engine Operator's manual
	4 Engine flooded with fuel	4 Discontinue choke or primer use, clean or replace spark plug.
	5 Safety key not inserted in engine ignition	5 Insert key fully into the switch
	6 Choke not in START position	6 Move choke to START position, after engine starts slowly move to RUN position as engine speed and operation stabilizes at the set rpm. If engine still does not start move to half choke and crank engine.
	7 Engine not primed with fuel	7 Prime engine, see Engine Operator's manual
	8 Fuel tank empty	8 Fill tank with clean, fresh gasoline
	9 Water in fuel	9 Empty fuel tank & carburetor, refill with fresh, clean gasoline
	10 Fuel incorrect, old or stale, will not ignite	10 Empty and clean fuel tank & carburetor, refill with fresh, clean gasoline. (Note: Fuel may become stale after 30 days in some cases)
	11 Blocked or clogged fuel system or line	11 Clean fuel system or line
	12 Fuel shut-off valve in OFF position	12 Turn fuel shut-off valve to ON position
	13 Internal engine problem	13 See Engine Operator's manual, contact service center or engine manufacturer.
Engine recoil starter will not pull out / hard to pull	1 Frozen recoil starter or engine too cold to turn over	1 Move snow blower to warm space and allow it to warm up.
Engine electric starter will not crank engine	1 Extension cord is not properly attached to electric starter terminal	1 Re-insert extension cord into electric starter terminal.
	2 No power from power supply, tripped breaker	2 Check power supply extension cord is attached to.
	3 Extension cord wire gauge is too small or cord is too long	3 Use proper rated and length extension cord, see Engine Operator's manual
Engine Overheats	1 Cooling air flow restricted to engine	1 Remove air flow restrictions from engine
	2 Low oil level	2 Check oil level on dipstick. If oil is not visible on dipstick, check oil level using LOWER fill plug BEFORE adding oil. Oil should be visible and to the top 2 threads of LOWER fill plug (not the dipstick tube). Do not over fill with oil, see Engine Operator's manual for more information. Note: Only use 5W-30, 4-stroke automotive detergent oil with an API SERVICE rating of SJ or higher. Engine oil capacity [LCT 208cc engine] - 16 oz. (0.473 liter). The use of automotive synthetic oil is acceptable.

Engine Systems (Continued)

Engine runs erratic, stalls or seems low on power	1	CHOKE in ON or partial ON position	1	Move CHOKE lever to RUN
	2	Water in fuel	2	Empty fuel tank & carburetor, refill with fresh, clean gasoline
	3	Fuel incorrect, old or stale	3	Empty and clean fuel tank & carburetor, refill with fresh, clean gasoline. (Note: Fuel may become stale after 30 days in some cases)
	4	Blocked or clogged fuel system or line	4	Clean fuel system or line
	5	Carburetor is in need of cleaning	5	Clean fuel system and carburetor
	6	Spark plug wire loose	6	Connect and tighten spark plug wire
	7	Faulty spark plug	7	Clean, adjust gap, or replace spark plug, see Engine Operator's manual
	8	Gas cap vent hole plugged	8	Remove ice and snow from gas cap.
	9	Engine oil over filled	9	Drain oil to proper level. Oil should not be above the top 2 threads of LOWER fill plug.
	10	Engine oil level low or empty	10	Check oil level on dipstick. If oil is not visible on dipstick, check oil level using LOWER fill plug BEFORE adding oil. Oil should be visible and to the top 2 threads of LOWER fill plug (not the dipstick tube). Do not over fill with oil, see Engine Operator's manual for more information. Note: Only use 5W-30, 4-stroke automotive detergent oil with an API SERVICE rating of SJ or higher. Engine oil capacity [LCT 208cc engine] - 16 oz. (0.473 liter). The use of automotive synthetic oil is acceptable.
	11	Engine overheating	11	See "Engine Overheats"

Engine smokes excessively	1	Engine oil over filled	1	Drain oil to proper level. Oil should not be above the top 2 threads of LOWER fill plug.
	2	Internal engine problem	2	See Engine Operator's manual, contact service center or engine manufacturer.

Drive System

No forward or reverse drive movement when drive handle engaged	1	Drive control cable loose, broken or binding	1	Repair or adjust drive control cable and adjust tension, see Auger and Drive Cable Adjustment
	2	Drive belt loose or damaged	2	Check drive belt tension pulley for damage or incorrect tension, repair as necessary. Replace drive belt.
	3	Friction drive wheel is worn or damaged	3	Replace friction drive wheel
	4	Friction drive wheel wet or slipping	4	Allow snow blower to dry and or warm up or adjust drive cable tension as necessary
	5	Wheels locked, wont move	5	Release drive control handle then pull machine backward to try and unlock axle. If axle will not unlock, check to ensure drive friction plate is not engaged to drive friction wheel, also check axle drive gear, axle and bushings for damage or binding.
	6	Wheel to axle pins broken or missing	6	Replace pins attaching wheels to axle

Drive speed control stuck in gear or wont change gears	1	Speed control lever loose or damaged, not moving speed control cables	1	Check speed control lever and cables for damage or loose or missing parts. Repair or replace parts as needed, ensure pivot stud spring tension is correct, adjust pivot nut spring tension as needed.
	2	Speed control cables loose, damaged or binding	2	Repair, adjust or replace as necessary
	3	Drive speed lower control lever or friction wheel damaged or mechanically binding	3	Inspect lower control lever and mechanical connection to friction drive wheel and slide shaft for damage or binding.

Drive speed control allows only one direction forward or reverse	1	Speed control cables misadjusted, loose, damaged or binding	1	Check speed control lever and cables for damage or loose or missing parts. Repair or replace parts as needed. Adjust drive speed control cables, see Drive Speed Control Cables Adjustment
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Drive engaged when drive control handle released	1	Drive control cable binding, wont release	1	Repair, replace cable as necessary
	2	Friction drive wheel return spring broke or missing	2	Replace spring, adjust cable as necessary

Auger System

Auger not rotating when auger control handle engaged or Not blowing snow or Poor snow blowing performance	1	Chute assembly clogged	1	Clean chute and inside of auger housing with clean-out tool
	2	Auger shear bolts broken	2	Replace shear bolts. Check each auger blade shear bolt.
	3	Foreign object in auger or impeller causing auger to stop without shearing pins	3	Remove object from auger or impeller areas
	4	Auger belt loose, slipping, worn or damaged	4	Replace auger belt or adjust auger control cable tension, see Auger and Drive Cable Adjustment
	5	Auger belt tension cable loose, damaged or binding	5	Repair, adjust or replace as necessary
	6	Auger blade(s) damaged or bent	6	Replace auger blade(s)
	7	Auger gearbox mechanical damage, auger drive system not rotating freely (binding)	7	Check bearings, bushings and all system parts for damage or mechanical binding. Repair or replace as necessary using proper lubrication
	8	Impeller damaged	8	Replace impeller
	9	Impeller not connected to impeller shaft, impeller or shaft damaged or roll pins broken	9	Replace roll pins or impeller as necessary
	10	Inadequate amount of snow	10	Ingest an adequate amount of snow to allow snow to compact enough to be moved through augers and into impeller.
	11	Snow too heavy or wet or has other material in it	11	Depending on ambient temperature, humidity levels, and overall climate conditions including actual snow conditions, there may be no solution as snow may be too wet or compacted to move or throw. If snow is filled with foreign material, damage to the snow thrower may result. Avoid snow with foreign materials.
	12	Forward speed too fast while blowing snow, overload	12	Slow and reduce snow ingestion, allow engine to maintain it's maximum rpm.
	13	Engine not running at rated speed under load	13	Have engine inspected and RPM tested under load to ensure engine is operating at the recommended RPM. Check for machine mechanical binding causing engine to not run at rated RPM.
Auger belt broken, or repeated failure	1	Auger tension pulley arm return spring broken or missing	1	Replace tension arm return spring
	2	Auger tension pulley arm stuck or binding	2	Repair or replace tension arm as necessary
	3	Auger tension pulley arm or pulley misaligned or damaged	3	Repair, replace or align tension arm and or pulley as necessary
	4	Foreign material on pulleys and belt, oil, grease, dirt etc.	4	Clean belt and pulleys as necessary, replace belt if necessary
	5	Auger pulleys misaligned, loose, damaged or bent	5	Replace or align pulleys as necessary
	6	Incorrect or damaged auger belt	6	Replace with correct size and type belt
	7	Incorrect auger belt tension	7	Adjust auger cable tension, see Auger and Drive Cable Adjustment
	8	Auger belt guide pin not adjusted	8	Adjust belt guide pin to within 1/8 to 3/16 in. from pulley. (Guide pin keeps belt in pulley when disengaged)
Auger rotating when auger control handle released	1	Auger cable tension too tight, belt to tight	1	Adjust auger cable tension, see Auger and Drive Cable Adjustment
	2	Auger tension pulley arm return spring broken or missing	2	Replace tension arm return spring
Excessive Vibration	1	Loose or damaged parts, auger blades bent or impeller damaged or binding	1	Stop engine immediately and disconnect spark plug wire. Check and tighten all bolts and nuts. Inspect auger and impeller for damage or foreign objects restricting rotation. If vibration continues, stop operation and contact service center or call Amerisun customer service for assistance.