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Ariens snowblower manual

Click on an alphabet below to see the full list of models starting with that letter: Alphabet letters with model numbers, and links to user manual, warranty guide, and specification sheet. Documents: - User Manual - Warranty Guide (English) - Operator's Manual (Gas Snow Blower) CONTROLS & FEATURES: 1. Engine Key 2. Primer Bulb 3. Fuel Tank and Cap 4. Fuel Valve 5. Electric Start Button 6. Choke Control Knob 7. Oil Fill / Dipstick 8. Oil Drain 9. Recoil Starter Handle 10. Speed Selector Lever 11. Auger 12. Impeller 13. Shear Bolt (2) 14. Replacement Shear Bolt (2) 15. Attachment Clutch Lever 16. Traction Drive Clutch Lever 17. Height Adjustment Lever (Model 920028) 18. Discharge Chute Rotation Lever 19. Discharge Chute Deflector Lever 20. Scraper Blade 21. Skid Shoe (2) 22. Axle Lock Pin (2) (Models 920025, 920030) 23. Snow Clean-out Tool 24. Discharge Chute 25. Belt Cover 26. Gearcase OPERATION: - Release both clutch levers and turn engine key to stop position. - Wait for all moving parts to stop before leaving operator's position. BEFORE OPERATING UNIT: - Check for a frozen impeller. - Turn engine key to stop position and remove key. - Engage attachment clutch lever and pull recoil starter handle. - If handle does not pull, move unit to a warm area to thaw. - Check fuel level and add fuel if needed. Use fresh unleaded fuel with an octane rating of at least 87. START THE ENGINE: - Electric Start: Connect power cord to starter and then into 120V 3-wire grounded outlet. - Turn fuel valve to on position. - Insert engine key and set engine switch to run position (Models 920028, 920029, 920030). - Press primer bulb three times for cold engines only. - Turn choke control knob to on position. - Electric Start: Press electric start button, power cord from outlet and then from starter. OPERATE UNIT1. Rotate discharge chute and move deflector to desired positions.2. Select desired speed.3. Engage attachment clutch.NOTICE: Stop auger when traveling between work areas.4. Engage traction drive clutch.NOTICE: Release lever before changing speed.Adjust Track AngleModel 920028See Figure 14.To clear snow on gravel or uneven surfaces or to travel between work areas, squeeze height adjustment lever and push down on handlebars to raise auger housing.To clear packed snow, squeeze lever and lift up on handlebars to lower housing.Set Axle Lock PinModels 920025, 920030NOTICE: Wheels must be locked in the outer axle holes when using tire chains.See Figure 15.Axle lock pins may be positioned so both wheels lock with axle rotation for greater traction, or so one wheel is unlocked from axle and rotates freely for easier turning.For greater traction:1. Align both wheel hub holes with inner axle holes and insert lock pins.For easier right turns:1. Remove lock pin from right wheel hub.2. Insert lock pin through outer axle hole.For easier left turns:1. Remove lock pin from left wheel hub.2. Insert lock pin through outer axle hole.IMPORTANT: Model 920029: When the unit is turned left or right, the Auto-Turn™ differential automatically unlocks wheels for easier turning. On a straight path, the differential locks both wheels in place for best traction.Clear a Clogged Discharge ChuteStop engine, remove key and wait for all moving parts to stop and for hot parts to cool.Use the snow clean-out tool to clear the clog.Return the tool to its storage position on the auger housing.STOP THE ENGINERelease traction drive clutch lever.Run auger / impeller for a few minutes to remove loose or melting snow to prevent impeller from freezing.Release attachment clutch lever.Models 920028, 920029, 92030: Turn engine key to stop position and remove key. Model 920025: Remove engine key.Turn fuel valve to off position.TRANSPORT UNITStop engine, remove key and close fuel valve.Secure unit chassis to transport vehicle.NOTICE: NEVER secure from rods or linkages that could be damaged.MAINTENANCEYour Ariens dealer can provide service and adjustments to keep your unit operating at peak efficiency. Contact an authorized engine manufacturer's service center for engine service.SERVICE POSITIONSee Figure 16.CHECK DUAL HANDLE INTERLOCKStop engine.Engage attachment clutch and then the traction drive clutch.Release the attachment clutch lever. The attachment clutch should stay engaged until the traction drive clutch lever is released.IMPORTANT: If dual handle interlock does not operate correctly, adjust or repair as directed in the service manual for your unit.CHECK FASTENERSCheck for loose hardwareCHECK CLUTCH OPERATIONAuger / impeller must stop within 5 seconds when attachment clutch lever is released.Wheels must stop quickly when traction drive clutch lever is released.IMPORTANT: If clutches do not engage or disengage correctly, see Adjust Attachment Clutch & Brake on page 20 or Adjust Traction Drive Clutch on page 22. Refer to the service manual for your unit for more information about clutch repairs.CHECK ENGINE OILNOTICE: Engine oil level must be maintained at correct level or engine damage may occur. Refer to engine manual.CHANGE Refer to the engine manual before proceeding. CHECK AUGER GEARCASE OIL by following these steps: 1. Place the unit on a flat surface, ensuring it's level. 2. Remove the oil fill plug (see Figure 17). IMPORTANT: Don't remove the gearcase cover. 3. Check the oil level using a suitable measuring device, such as a clean screwdriver. Add oil if necessary; the recommended level is between 4.1 cm - 4.8 cm (1.6" - 1.9") from the flat surface of the gearcase cover. IMPORTANT: Ariens advises using only their L3 synthetic severe duty gear lube (see Service Parts on page 14). 4. Inspect the oil fill plug for wear or rubber deterioration and replace it if needed. 5. Reinstall the oil fill plug, tightening to 9 N•m (80 lb-in). IMPORTANT: Avoid over-tightening. Lubricate fittings with Ariens Hi-Temp Grease or an equivalent product (see Service Parts) every season or after 25 hours of operation. Remove any dirt before and after lubrication. Remove the Bottom Cover for models 920025, 920029, and 920030: 1. Place the unit in service position (see Figure 16). 2. Remove six hex bolts retaining the cover. 3. Take off the cover, saving it for reinstallation. For model 920028: 1. Place the unit in service position (see Figure 16). 2. Remove three top-lock flange nuts retaining the height-adjuster plate to the height-adjuster bracket. 3. Remove the height-adjuster plate and spacers on the round head square neck bolts. 4. Slide the height-adjuster stop to the right, then rotate it away from the frame. 5. Take off six bolts retaining the bottom cover. TROUBLESHOOTING: If the engine won't start. - Check if the engine key is in the run position (see Engine Key on page 9). - Ensure the choke control knob is turned to the on position (see Choke Control Knob on page 9). - If the fuel valve is closed, open it (see Fuel Valve on page 9). - Fill the fuel tank if it's empty (see Before Operating Unit on page 11). If the engine won't prime. - If the engine is cold, press the primer bulb three times and start the engine. Do not prime a warm engine. Other issues can be resolved by checking the troubleshooting section for specific problems. 1.Fuel tank empty.Fill with fuel. See Before Operating Unit page 11.Valve closed.Open valve. See Fuel Valve page 9.Auger or impeller obstruction.Stop engine, remove key and wait for all moving parts to stop.Check for and remove obstruction before restarting. 2.Fuel supply contaminated.Replace with clean fuel.Spark plug faulty.Replace spark plug.Refer engine manual. 3.Fuel cap blocked.Install new fuel cap.Unit runs briefly then stops.Build-up of fumes in tank.Carefully loosen fuel tank cap. 4.Units do not drive forward or backward.Friction disc worn.Replace friction disc.Refer to service manual. 5.Traction drive cable slack.Remove slack from cable. See Adjust Traction Drive Clutch page 22. 6.Traction belt not functioning.Repair or replace traction drive belt.Refer to service manual. 7.Speed selector adjustment.Adjust speed selector.Refer to Adjust Speed Selector Lever page 19. 8.Axle lock pins position.Set one or both axle lock pins in traction position. Refer to Set Axle Lock Pin page 12. 9.Units do not throw snow well.Shear bolts broken.Seek Replace Shear bolts page 18. 10.Attachment clutch/brake adjustment.Adjust attachment clutch & brake.Refer to Adjust Attachment Clutch & Brake page 20. 11.Impeller frozen Move unit to warm place to thaw.Ice or debris obstructing auger.Stop engine, remove key and wait for moving parts to stop.Check for and remove obstruction before restarting. 12.Discharge chute clogged with snow.Stop engine, remove key and wait for all moving parts to cool.Clean discharge chute and auger housing with clean-out tool. Do not use hands. 13.Auger drive belt slipping or damaged.Adjust or replace auger drive belt.Refer to service manual. 14.Units leaving excessive snow behind.Scraper blade worn or damaged.Adjust when worn and replace when damaged or blade adjusted down as far as possible and does not touch ground or clear correctly. See Adjust Scraper Blade page 18. 15.Rubber beads collecting in frame.Friction disc wear.This is normal friction disc wear and no correction is needed unless there are chunks or large pieces of rubber collecting in frame.If repair is needed, refer to service manual for your unit.