For Arctic Cat Discount Parts Call 606-678-9623 or 606-561-4983

SECTION 11 - TROUBLESHOOTING

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Engine

Problem: Engine will not start or is hard to start	(Compression too low)
Condition	Remedy
1. Valve clearance out of adjustment	1. Adjust clearance
2. Valve guides worn - seated poorly	2. Repair - replace guides
3. Valves mistimed	3. Adjust valve timing
4. Piston rings worn excessively	4. Replace rings
5. Cylinder bore worn	5. Replace - rebore cylinder
6. Spark plug seating poorly	6. Tighten plug
7. Starter motor cranks too slowly - does not turn	7. See Electrical in this section
Problem: Engine will not start or is hard to start	(No spark)
Condition	Remedy
1. Spark plug fouled	1. Clean - replace plug
2. Spark plug wet	2. Clean - dry plug
3. Magneto defective	3. Replace magneto
4. CDI unit defective	4. Replace CDI unit
5. Ignition coil defective	5. Replace ignition coil
6. High-tension lead open - shorted	6. Replace high tension lead
Problem: Engine will not start or is hard to start	
Condition	Remedy
1. Gas tank vent hose obstructed	1. Clean vent hose
2. Carburetor inlet needle defective	2. Replace needle
3. Fuel hose obstructed	3. Clean - replace hose
4. Fuel screens obstructed	4. Clean - replace inlet screen - valve screen
5. Gas tank valve clogged or defective	5. Clean - replace valve
6. Electric fuel pump defective	6. Replace pump
Problem: Engine stalls easily	
Condition	Remedy
1. Spark plug fouled	1. Clean plug
2. Magneto defective	2. Replace magneto
3. CDI unit defective	3. Replace CDI unit
4. Carburetor jets obstructed	4. Clean jets
5. Valve clearance out of adjustment	5. Adjust clearance
Problem: Engine noisy (Excessive valve chatter Condition	Remedy
1. Valve clearance too large	1. Adjust clearance
2. Valve spring(s) weak - broken	2. Replace spring(s)
3. Rocker arm - rocker arm shaft worn	3. Replace arm - shaft
4. Camshaft worn	4. Replace camshaft
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Problem: Engine noisy (Noise seems to come fr	om piston)
Condition	Remedy
1. Piston - cylinder worn	1. Replace - service piston - cylinder
2. Combustion chamber carbon buildup	2. Clean chamber
3. Piston pin - piston pin bore worn	3. Replace - service pin - bore
4. Piston rings - ring groove(s) worn	4. Replace rings - piston
Problem: Engine noisy (Noise seems to come fr	om timing chain)
Condition	Remedy
1. Chain stretched	1. Replace chain
2. Sprockets worn	2. Replace sprockets
3. Tension adjuster malfunctioning	3. Repair - replace adjuster
Problem: Engine noisy (Noise seems to come fr	om clutch)
Condition	Remedy
1. Crankshaft splines - bearings worn	1. Replace crankshaft - bearings
2. Countershaft - hub splines worn	2. Replace countershaft - hub
3. Clutch plate teeth worn	3. Replace clutch plate(s)
4. Driven - drive clutch plates distorted - broken	4. Replace clutch plate(s)
5. Clutch dampers weak	5. Replace dampers
Problem: Engine noisy (Noise seems to come fr	om crankshaft)
Condition	Remedy
1. Bearing worn - burned	1. Replace bearing
2. Lower rod-end bearing worn - burned	2. Replace bearing
3. Connecting rod side clearance too large	3. Replace thrust washer(s)
Problem: Engine noisy (Noise seems to come fr	
Condition	Remedy
1. Gears worn - rubbing	1. Replace gears
2. Splines worn	2. Replace shaft(s)
3. Primary gears worn - rubbing	3. Replace gears
4. Bearings worn	4. Replace bearings
5. Bushing worn	5. Replace bushing
Problem: Engine noisy (Noise seems to come fr	
Condition	Remedy
1. Gears - shaft(s) worn	1. Replace gears - shafts
2. Bearing(s)/bushing(s) damaged	2. Replace bearing(s)/bushing(s)
Problem: Engine noisy (Noise seems to come fr	om secondary bevel gear and final driven shaft)
	Remedy
 Drive - driven bevel gears damaged - worn Backlash excessive 	1. Replace gears
	2. Adjust backlash
3. Tooth contact improper	3. Adjust contact
4. Bearing damaged	4. Replace bearing
5. Gears worn - rubbing	5. Replace gears
6. Splines worn	6. Replace shaft(s)
7. Final driven shaft thrust clearance too large	7. Replace thrust washer(s)

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Problem: Secondary-transmission will not shift o	r shift back
Condition	Remedy
1. Sliding dog broken - worn	1. Replace dog
2. Gearshift fork broken - worn	2. Replace fork
3. Hi/Low shift lever out of adjustment	3. Adjust lever
4. Gearshift cam worn	4. Replace cam
5. Cam stopper spring weak	5. Replace spring
6. Gearshift fork shaft worn	6. Replace shaft
Problem: Engine idles poorly	
Condition	Remedy
1. Valve clearance out of adjustment	1. Adjust clearance
2. Valve seating poor	2. Replace - service seats - valves
3. Valve guides defective	3. Replace guides
4. Rocker arms - arm shaft worn	4. Replace arms - shafts
5. Magneto defective	5. Replace magneto
6. CDI unit defective	6. Replace CDI unit
7. Spark plug fouled - gap too wide	7. Adjust gap - replace plug
8. Ignition coil defective	8. Replace ignition coil
9. Float out of adjustment	9. Adjust float height
10. Jets obstructed	10. Clean jets
11. Pilot screw setting improper	11. Adjust pilot screw
Problem: Engine runs poorly at high speed	
Condition	Remedy
1. High RPM "cut out" against RPM limiter	1. Shift into higher gear - decrease speed
2. Valve springs weak	2. Replace springs
3. Valve timing out of adjustment	 Replace springs Adjust timing
 Valve timing out of adjustment Cams - rocker arms worn 	 Replace springs Adjust timing Replace cams - arms
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow 	 Replace springs Adjust timing Replace cams - arms Adjust gap
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed Problem: Exhaust smoke dirty or heavy 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element Clean - prime hose
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed Problem: Exhaust smoke dirty or heavy Condition 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element Clean - prime hose
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed Problem: Exhaust smoke dirty or heavy Condition Oil (in the engine) overfilled - contaminated 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element Clean - prime hose Remedy Drain excess oil - replace oil
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed Problem: Exhaust smoke dirty or heavy Condition Oil (in the engine) overfilled - contaminated Piston rings - cylinder worn 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element Clean - prime hose Remedy Drain excess oil - replace oil Replace - service rings - cylinder
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed Problem: Exhaust smoke dirty or heavy Condition Oil (in the engine) overfilled - contaminated Piston rings - cylinder worn Valve guides worn 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element Clean - prime hose Remedy Drain excess oil - replace oil Replace - service rings - cylinder Replace guides
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed Problem: Exhaust smoke dirty or heavy Condition Oil (in the engine) overfilled - contaminated Piston rings - cylinder worn Valve guides worn Cylinder wall scored - scuffed 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element Clean - prime hose Remedy Drain excess oil - replace oil Replace - service rings - cylinder Replace guides Replace - service cylinder
 Valve timing out of adjustment Cams - rocker arms worn Spark plug gap too narrow Ignition coil defective Float level too low Air cleaner element obstructed Fuel hose obstructed Problem: Exhaust smoke dirty or heavy Condition Oil (in the engine) overfilled - contaminated Piston rings - cylinder worn Valve guides worn 	 Replace springs Adjust timing Replace cams - arms Adjust gap Replace ignition oil Adjust float height Clean element Clean - prime hose Remedy Drain excess oil - replace oil Replace - service rings - cylinder Replace guides

Problem: Engine lacks power	
Condition	Remedy
1. Valve clearance incorrect	1. Adjust clearance
2. Valve springs weak	2. Replace springs
3. Valve timing out of adjustment	3. Adjust timing
4. Piston ring(s) - cylinder worn	4. Replace - service rings - cylinder
5. Valve seating poor	5. Repair seats
6. Spark plug fouled	6. Clean - replace plug
7. Rocker arms - shafts worn	7. Replace arms - shafts
8. Spark plug gap incorrect	8. Adjust gap - replace plug
9. Carburetor jets obstructed	9. Clean jets
10. Float level out of adjustment	10. Adjust float height
11. Air cleaner element obstructed	11. Clean element
12. Oil (in the engine) overfilled - contaminated	12. Drain excess oil - change oil
13. Intake manifold leaking air	13. Tighten - replace manifold
14. Cam chain worn	14. Replace cam chain
Problem: Engine overheats	· ·
Problem: Engine overheats Condition	Remedy
Problem: Engine overheats Condition 1. Carbon deposit (piston crown) excessive	Remedy 1. Clean piston
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low	Remedy 1. Clean piston 2. Add oil
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor4. Oil pump defective	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump
Problem: Engine overheats Condition 1. Carbon deposit (piston crown) excessive 2. Oil low 3. Octane low - gasoline poor 4. Oil pump defective 5. Oil circuit obstructed	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump5. Clean circuit
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor4. Oil pump defective5. Oil circuit obstructed6. Gasoline level (in float chamber) too low	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump5. Clean circuit6. Adjust float height
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor4. Oil pump defective5. Oil circuit obstructed6. Gasoline level (in float chamber) too low7. Intake manifold leaking air	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump5. Clean circuit6. Adjust float height7. Tighten - replace manifold
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor4. Oil pump defective5. Oil circuit obstructed6. Gasoline level (in float chamber) too low7. Intake manifold leaking air8. Coolant level low	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump5. Clean circuit6. Adjust float height7. Tighten - replace manifold8. Fill - examine system for leaks
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor4. Oil pump defective5. Oil circuit obstructed6. Gasoline level (in float chamber) too low7. Intake manifold leaking air8. Coolant level low9. Fan malfunctioning	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump5. Clean circuit6. Adjust float height7. Tighten - replace manifold8. Fill - examine system for leaks9. Check fan fuse - replace fan
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor4. Oil pump defective5. Oil circuit obstructed6. Gasoline level (in float chamber) too low7. Intake manifold leaking air8. Coolant level low9. Fan malfunctioning10. Fan switch malfunctioning	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump5. Clean circuit6. Adjust float height7. Tighten - replace manifold8. Fill - examine system for leaks9. Check fan fuse - replace fan10. Replace fan switch
Problem: Engine overheatsCondition1. Carbon deposit (piston crown) excessive2. Oil low3. Octane low - gasoline poor4. Oil pump defective5. Oil circuit obstructed6. Gasoline level (in float chamber) too low7. Intake manifold leaking air8. Coolant level low9. Fan malfunctioning	Remedy1. Clean piston2. Add oil3. Drain - replace gasoline4. Replace pump5. Clean circuit6. Adjust float height7. Tighten - replace manifold8. Fill - examine system for leaks9. Check fan fuse - replace fan

Drive

Problem: Power not transmitted from engine to	wheels
Condition	Remedy
1. Rear axle shaft serration worn - broken	1. Replace shaft
Problem: Power not transmitted from engine to	either front wheel
Condition	Remedy
1. Secondary drive - driven gear teeth broken	1. Replace gear(s)
2. Propeller shaft serration worn - broken	2. Replace shaft
3. Coupling damaged	3. Replace coupling
4. Coupling joint serration worn - damaged	4. Replace joint
5. Front drive - driven bevel gears broken - damaged	5. Replace gear(s)
 Front differential gears/pinions broken - damaged 	6. Replace gears - pinions
7. Sliding dog/shaft/fork worn - damaged	7. Replace gear(s)
8. Front drive axle worn - damaged	8. Replace axle
9. Front drive axle serration worn - damaged	9. Replace axle



Fuel System

Problem: Starting impaired	
Condition	Remedy
1. Starter jet obstructed	1. Clean jet
2. Starter jet passage obstructed	2. Clean passage
3. Starter body - carburetor leaking air	3. Tighten - adjust - replace gasket
4. Starter valve not operating properly	4. Check - adjust valve
Problem: Idling or low speed impaired	
Condition	Remedy
1. Slow jet obstructed - loose	1. Clean - tighten jet
2. Slow jet outlet obstructed	2. Clean outlet
3. Low speed fuel screw setting incorrect	3. Adjust screw
4. Starter valve not fully closed	4. Adjust valve
5. Float height incorrect	5. Adjust float height
Problem: Medium or high speed impaired	
Condition	Remedy
1. High RPM "cut out" against RPM limiter	1. Shift into higher gear - decrease RPM speed
2. Main jet obstructed	2. Clean main jet
3. Needle jet obstructed	3. Clean needle jet
4. Throttle vacuum piston not operating properly	4. Check piston operation
5. Filter obstructed	5. Clean filter
6. Float height incorrect	6. Adjust float height
7. Starter valve not fully closed	7. Adjust valve
Problem: Overflow and fuel level fluctuations	
Condition	Remedy
1. Float valve worn - damaged	1. Replace valve
2. Float valve spring broken	2. Replace spring
3. Float not working properly	3. Adjust float height - replace float
4. Float valve dirty	4. Clean valve
5. Float height too high - too low	5. Adjust float height

Electrical

Problem: Spark absent or weak	
Condition	Remedy
1. Ignition coil defective	1. Replace ignition coil
2. Spark plug defective	2. Replace plug
3. Magneto defective	3. Replace magneto
4. CDI unit defective	4. Replace CDI unit
5. Pick-up coil defective	5. Replace pick-up coil
Problem: Spark plug fouled with carbon	
Condition	Remedy
1. Mixture too rich	1. Adjust carburetor
2. Idling RPM too high	2. Adjust carburetor
3. Gasoline incorrect	3. Change to correct gasoline
4. Air cleaner element dirty	4. Clean element
5. Spark plug incorrect (too cold)	5. Replace plug
6. Valve seals cracked - missing	6. Replace seals
7. Oil rings worn - broken	7. Replace rings
Problem: Spark plug electrodes overheat or bur	
Condition	Remedy
1. Spark plug incorrect (too hot)	1. Replace plug
2. Engine overheats	2. Service cooling system
3. Spark plug loose	3. Tighten plug
4. Mixture too lean	4. Adjust carburetor
Problem: Magneto does not charge	
Condition	Remedy
1. Lead wires/connections shorted - loose - open	
2. Magneto coils shorted - grounded - open	2. Replace magneto coils
3. Regulator/rectifier shorted - punctured	3. Replace regulator/rectifier
Problem: Magneto charges, but charging rate is	
Condition	Remedy
1. Lead wires shorted - open - loose (at terminals)	
2. Stator coils (magneto) grounded - open	2. Replace stator coils
3. Regulator/rectifier defective	3. Replace regulator/rectifier
4. Electrolyte low	4. Add distilled water
5. Cell plates (battery) defective	5. Replace battery

Condition Remedy 1. Internal battery short circuited 1. Replace battery 2. Regulator/rectifier resistor damaged - defective 2. Replace resistor 3. Regulator/rectifier poorly grounded 3. Clean - tighten ground connection Problem: Charging unstable Condition Regulator/rectifier poorly grounded 3. Clean - tighten ground connection Problem: Statter button not effective 3. Replace regulator/rectifier Condition Remedy 1. Lead wire intermittently shorting 1. Replace lead wire 2. Magneto internally shorted 2. Replace regulator/rectifier 7 Molition Remedy 1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace relay 3. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery velocityte excessive - insufficient 1. Replace battery 2. Battery velocityte excessive - insufficient 2. Keep electrolyte to prescribed level 3. Specific gravity too high - too low 3. Charge battery - add distilled water 4. Bat	Problem: Magneto overcharges	
1. Internal battery short circuited 1. Replace battery 2. Regulator/rectifier resistor damaged - defective 2. Replace resistor 3. Regulator/rectifier poorly grounded 3. Clean - tighten ground connection Problem: Charging unstable 2. Replace magneto Condition Remedy 1. Lead wire intermittently shorting 1. Replace lead wire 2. Magneto internally shorted 2. Replace magneto 3. Regulator/rectifier defective 3. Replace regulator/rectifier Problem: Statter button not effective 2. Replace switch 3. Starter word brushes not seating 3. Replace relay 4. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery electrolyte excessive - insufficient 2. Keep electrolyte to prescribed level 3. Specific gravity too high 1. Replace battery 4. Battery visulfation* (Acidic white powdery substance or spots on surfaces of cell plates) Condition Remedy 1. Charging rate too low - too high 1. Replace battery 2. Battery electrolyte excessive - insufficient 2. Keep electrolyte to prescribed level <th>Condition</th> <th>Remedy</th>	Condition	Remedy
defective 3. Regulator/rectifier poorly grounded 3. Clean - tighten ground connection Problem: Charging unstable Condition Remedy 1. Lead wire intermittently shorting 1. Replace lead wire 2. Replace magneto 3. Regulator/rectifier defective 3. Replace regulator/rectifier Problem: Starter button not effective Condition Remedy 1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace relay 3. Starter motor brushes not seating 3. Repair - replace brushes 4. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery "sulfation" (Acidic white powdery substance or spots on surfaces of cell plates) Condition Remedy 1. Charging rate to low - too high 1. Replace battery 2. Battery electrolyte excessive - insufficient 3. Charge battery - add distilled water 3. Specific gravity too high - too low 3. Charge battery 5. Electrolyte contaminated 1. Replace battery 7. Electrolyte contaminated 1. Replace battery 8.	1. Internal battery short circuited	-
Problem: Charging unstable Remedy 1. Lead wire intermittently shorting 1. Replace lead wire 2. Magneto internally shorted 2. Replace magneto 3. Regulator/rectifier defective 3. Replace regulator/rectifier Problem: Starter button not effective 3. Replace switch 1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace relay 3. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery "sulfation" (Acidic white powedery substance or spots on surfaces of cell plates) Condition Remedy 1. Charging rate too low - too high 1. Replace battery 2. Battery electrolyte excessive - insufficient 3. Charge battery 3. Specific gravity too high - too low 3. Charge battery 5. Electrolyte contaminated 1. Replace battery 7. Specific gravity too high 1. Replace battery 3. Specific gravity too high 2. Replace battery 4. Battery run-down - damaged 4. Replace battery 5. Electrolyte contaminated 1. Replace battery <th></th> <th>2. Replace resistor</th>		2. Replace resistor
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1. Lead wire intermittently shorting 1. Replace lead wire 2. Magneto internally shorted 2. Replace magneto 3. Regulator/rectifier defective 3. Replace regulator/rectifier Problem: Starter button not effective 3. Replace regulator/rectifier Condition Remedy 1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace switch 3. Starter motor brushes not seating 3. Repair - replace bushes 4. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery "sulfation" (Acidic white powdery substance or spots on surfaces of cell plates) Condition Remedy 1. Charging rate too low - too high 1. Replace battery 2. Battery electrolyte excessive - insufficient 3. Charge battery - add distilled water 4. Battery run-down - damaged 5. Recharge - replace battery 5. Electrolyte contaminated 5. Recharge - replace battery 7. Specific gravity too high 1. Replace battery 3. Charge battery or add distilled water 3. Charge battery - add distilled water	Problem: Charging unstable	
2. Magneto internally shorted 2. Replace magneto 3. Regulator/rectifier defective 3. Replace regulator/rectifier Problem: Starter button not effective 3. Replace regulator/rectifier Condition Remedy 1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace switch 3. Starter motor brushes not seating 3. Repair - replace brushes 4. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery "sulfation" (Acidic white powery substance or spots on surfaces of cell plates) Condition Remedy 1. Charging rate too low - too high 1. Replace battery 2. Battery electrolyte excessive - insufficient 3. Charge battery - add distilled water 3. Specific gravity too high - too low 3. Charge battery 5. Electrolyte contaminated 5. Recharge - replace battery 7. Electrolyte contaminated 1. Replace battery 2. Specific gravity too high 1. Replace battery 3. Charge paystem (charging operation) not set properly 2. Charge battery - add distilled water	Condition	Remedy
3. Regulator/rectifier defective 3. Replace regulator/rectifier Problem: Starter button not effective Remedy 1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace switch 3. Starter motor brushes not seating 3. Repair - replace brushes 4. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery "sulfation" (Acidic white powdery substance or spots on surfaces of cell plates) 1. Replace battery Condition Remedy 1. Replace battery 2. Battery electrolyte excessive - insufficient 3. Charge battery - add distilled water 3. Specific gravity too high 1. Replace battery 5. Electrolyte contaminated 5. Recharge - replace battery 7. Electrolyte contaminated 1. Replace battery 7. Specific gravity too high 2. Charge battery - add distilled water 3. Charging system (charging operation) not set properly 1. Replace battery 2. Specific gravity too high 2. Charge battery - correct charging system 3. Charging system (charging operation) not set properly 1. Replace battery <th>1. Lead wire intermittently shorting</th> <th>1. Replace lead wire</th>	1. Lead wire intermittently shorting	1. Replace lead wire
Problem: Starter button not effective Remedy 1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace switch 3. Starter motor brushes not seating 3. Repair - replace brushes 4. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery "sulfation" (Acidic white powdery substance or spots on surfaces of cell plates) Condition Remedy 1. Charging rate too low - too high 1. Replace battery 2. Battery electrolyte excessive - insufficient 3. Charge battery - add distilled water 3. Specific gravity too high - too low 3. Charge battery - add distilled water 4. Battery run-down - damaged 5. Recharge - replace battery 5. Electrolyte contaminated 5. Recharge - replace battery 7. Electrolyte contaminated 1. Replace battery 2. Specific gravity too high 2. Charge battery - add distilled water 3. Charging system (charging operation) not set properly 1. Replace battery 3. Charging system (charging operation) not set properly 2. Charge battery - correct charging system 5.	2. Magneto internally shorted	2. Replace magneto
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1. Battery charge low 1. Recharge - replace battery 2. Switch contacts defective 2. Replace switch 3. Starter motor brushes not seating 3. Repair - replace brushes 4. Starter relay defective 4. Replace relay 5. Emergency stop - ignition switch off 5. Turn on switches 6. Wiring connections loose - disconnected 6. Connect - tighten - repair connections Problem: Battery "sulfation" (Acidic white powdery substance or spots on surfaces of cell plates) Condition Remedy 1. Charging rate too low - too high 1. Replace battery 2. Battery electrolyte excessive - insufficient 2. Keep electrolyte to prescribed level 3. Specific gravity too high - too low 3. Charge battery - add distilled water 4. Battery run-down - damaged 5. Recharge - replace battery 5. Electrolyte contaminated 5. Recharge - replace battery 7. Electrolyte contaminated 1. Replace battery 2. Specific gravity too high 1. Replace battery 3. Charge battery discharges too rapidly 2. Charge battery Condition Remedy 1. Electrolyte contaminated 1. Replace battery 2. Specific gravity too high 3. Chack magneto - regulator/rectifier - circuit connections - adjust for spec	Problem: Starter button not effective	
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Problem: Battery polarity reversed Condition Remedy	5. Battery short-circuited	5. Replace battery
Condition Remedy	6. Specific gravity too low	6. Recharge battery
	Problem: Battery polarity reversed	
1. Battery incorrectly connected 1. Beverse connections - replace battery	Condition	Remedy
	1. Battery incorrectly connected	1. Reverse connections - replace battery

Steering/Suspension

Problem: Handling too heavy or stiff	
Condition	Remedy
1. Front wheel alignment incorrect	1. Adjust alignment
2. Lubrication inadequate	2. Lubricate appropriate components
3. Tire inflation pressure incorrect	3. Adjust pressure
4. Tie rod ends seizing	4. Replace tie rod ends
5. Linkage connections seizing	5. Repair - replace connections
Problem: Steering oscillation	
Condition	Remedy
1. Tires inflated unequally	1. Adjust pressure
2. Wheel(s) wobbly	2. Replace wheel(s)
3. Wheel hub cap screw(s) loose - missing	3. Tighten - replace cap screws
4. Wheel hub bearing worn - damaged	4. Replace bearing
5. Tie rod ends worn - loose	5. Replace - tighten tie rod ends
6. Tires defective - incorrect	6. Replace tires
7. A-arm bushings damaged	7. Replace bushings
8. Bolts - nuts (frame) loose	8. Tighten bolts - nuts
Problem: Steering pulling to one side	
Condition	Remedy
1. Tires inflated unequally	1. Adjust pressure
2. Front wheel alignment incorrect	2. Adjust alignment
3. Wheel hub bearings worn - broken	3. Replace bearings
4. Frame distorted	4. Repair - replace frame
5. Shock absorber defective	5. Replace shock absorber
Problem: Steering impaired	
Condition	Remedy
1. Tire pressure too high	1. Adjust pressure
2. Steering linkage connections worn	2. Replace connections
3. Cap screws (suspension system) loose	3. Tighten cap screws
Problem: Tire wear rapid or uneven	Demode
Condition	Remedy
1. Wheel hub bearings worn - loose	1. Replace bearings
2. Front wheel alignment incorrect	2. Adjust alignment
Problem: Steering noise Condition	Remedy
1. Caps screws - nuts loose	1. Tighten cap screws - nuts
2. Wheel hub bearings broken - damaged	2. Replace bearings
3. Lubrication inadequate	3. Lubricate appropriate components

Problem: Suspension too soft	
Condition	Remedy
1. Spring(s) weak	1. Replace spring(s)
2. Shock absorber damaged	2. Replace shock absorber
Problem: Suspension too stiff	
Condition	Remedy
1. A-arm-related bushings worn	1. Replace bushing
Problem: Suspension noisy	
Condition	Remedy
1. Cap screws (suspension system) loose	1. Tighten cap screws
2. A-arm-related bushings worn	2. Replace bushings
Problem: Rear wheel oscillation	
robient near wheel oscination	
Condition	Remedy
	Remedy 1. Replace bearings
Condition	
Condition 1. Rear wheel hub bearings worn - loose	1. Replace bearings
Condition1. Rear wheel hub bearings worn - loose2. Tires defective - incorrect	 Replace bearings Replace tires
Condition1. Rear wheel hub bearings worn - loose2. Tires defective - incorrect3. Wheel rim distorted	 Replace bearings Replace tires Replace rim
Condition1. Rear wheel hub bearings worn - loose2. Tires defective - incorrect3. Wheel rim distorted4. Wheel hub cap screws loose	 Replace bearings Replace tires Replace rim Tighten cap screws
Condition1. Rear wheel hub bearings worn - loose2. Tires defective - incorrect3. Wheel rim distorted4. Wheel hub cap screws loose5. Auxiliary brake adjusted incorrectly	 Replace bearings Replace tires Replace rim Tighten cap screws Adjust brake

Brakes

Problem: Braking poor	
Condition	Remedy
1. Pad worn	1. Replace pads
2. Pedal free-play excessive	2. Adjust free-play
3. Brake fluid leaking	3. Repair - replace hydraulic system
4. Hydraulic system leaking air	4. Bleed hydraulic system
5. Master cylinder/brake cylinder seal worn	5. Replace seal(s)
Problem: Brake lever travel excessive	
Condition	Remedy
1. Hydraulic system entrapped air	1. Bleed hydraulic system
2. Brake fluid low	2. Add fluid to proper level
3. Brake fluid incorrect	3. Replace with correct fluid
4. Piston seal - cup worn	4. Replace seal - cup
Problem: Brake fluid leaking	
Condition	Remedy
1. Connection joints loose	1. Tighten joints
2. Hose cracked	2. Replace hose
3. Piston seal worn	3. Replace seal

NOTES



