



MODEL 3171 / AGES 13+ / 24 MPH MAX SPEED

3171 136cc FUN KART OWNER'S MANUAL

15023R1 Rev. A
pub. 05/19/2015

THIS VEHICLE IS FOR OFF-ROAD USE ONLY. THIS VEHICLE IS NOT DESIGNED FOR USE ON RENTAL TRACKS OR RACING

BEFORE OPERATING THIS VEHICLE, THE OWNER AND EACH OPERATOR MUST UNDERSTAND THIS VEHICLE WAS NOT DESIGNED OR MANUFACTURED TO MEET SPECIFICATIONS FOR USE ON PUBLIC ROADS, STREETS, HIGHWAYS AND THOROUGHFARES. THE OWNER AND EACH OPERATOR MUST READ AND UNDERSTAND ALL THE INSTRUCTIONS FOR PROPER ASSEMBLY AND SAFE OPERATION, AS WELL AS THE INSTRUCTIONS CONCERNING THE ENGINE AND ALL OTHER PORTIONS OF THE VEHICLE. CHILDREN MUST BE 13+ YEARS OF AGE FOR THIS VEHICLE AND SUPERVISED BY AN ADULT AT ALL TIMES WHEN USING THIS FUN KART. SPEED REDUCTION KITS ARE AVAILABLE FOR ALL VEHICLES. THIS VEHICLE IS NOT A TOY.



limited warranty

Fun Karts

Limited Warranty: American SportWorks (hereinafter referred to as “ASW”) hereby warrants to the original purchaser that the frame, component parts and engine of your new ASW Fun Kart will be free from defects in material and workmanship. Your period of warranty is thirty (30) days from date of purchase (except as noted below). The frame is warranted for ninety (90) days and one (1) year on certain engines. On those engines which carry a separate manufacturer’s warranty, they are not covered by this ASW warranty. Please refer to the engine manufacturer’s warranty policy included with your ASW product for its warranty repair requirements and procedures. The engine manufacturer’s warranty may be for a longer period of time than a one (1) year period.

ASW Warranty Responsibilities: ASW, if notified of a defect in material or workmanship during the period of warranty, will repair or replace, at its option, defective parts covered by this warranty at no charge, other than the reasonable cost for the transportation of the component(s). ASW will also agree to pay reasonable charges for labor, if necessary, to perform a warranty repair.

Warranty Claim Requirements and Procedures: In order to be able to claim under this warranty the original purchaser must maintain and operate the vehicle in accordance with the instructions provided in the Operator’s Manual, engine manual, the supplements thereto, and labels affixed to the vehicle. Additionally, within (10) days of the discovery of an alleged defect, the original purchaser must contact ASW’s Customer Service Department at 1-800-643-7332, 7625 DiSalle Boulevard, Fort Wayne, IN 46825 or via the internet at www.amsportworks.com. The repair or replacement of any part or parts under this Limited Warranty shall not extend the term of the warranty beyond the original term as set forth above.

General Exclusions: This limited warranty does not cover component failure or damage caused by any of the following: abnormal strain or stress, neglect; abuse; improper assembly of components which were supplied in the factory sealed carton after the vehicle left ASW; improper maintenance, modifications, damage caused by use of non ASW accessories, improper use of the vehicle, including, but not limited to racing, jumping, stunt driving, or any other uses prohibited by the Operator’s Manual. Additionally, this warranty does not cover vehicles which are leased, rented, or used at a concession track.

Specific Exclusions: This limited warranty does not apply to components which are subject to normal wear and tear. These items include, but are not limited to, the tires, battery, brakes, throttle, shift and brake cables, drive belt, the torque converter system, chain, seat, lights, fasteners, decals, or body panels and natural cosmetic discoloration of material due to ultraviolet light. Downtime, pick-up and delivery charges are not covered by this warranty. This warranty does not apply to select engines which are covered by a separate manufacturer’s warranty.

NO IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY: THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. SPECIFICALLY, ASW MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITATIONS SPECIFIED IN THE WARRANTY ABOVE ARE HEREBY DISCLAIMED BY ASW AND EXCLUDED FROM THIS WARRANTY. ADDITIONALLY, THIS WARRANTY EXCLUDES ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF USE. SOME STATES DO NOT ALLOW A MANUFACTURER TO EXCLUDE OR LIMIT INCIDENTAL OR CONSEQUENTIAL DAMAGES AND, THEREFORE, THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY WILL LAST. IT IS POSSIBLE THAT THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS, WHICH VARY, FROM STATE TO STATE.

Warranty Service: To obtain warranty service you must return your ASW product to the local authorized dealer or service center, inform them of your warranty problem and provide proof of purchase before any warranty service can be provided. The authorized dealer or service center will inspect the product to determine what repairs or parts are needed and whether they are covered under this warranty. To locate the authorized dealer or service center nearest you please call ASW customer service at 800-643-7332, or visit our website at www.amsportworks.com for more information.

EPA Requirements: This product complies with all applicable EPA Emissions and, Evaporative requirements. Included with your product’s documents are copies of ASW’s “Emission Control System Warranty Statement”. If your vehicle has a fuel tank mounted remotely from the engine, you will be provided with an “Evaporative Emissions Warranty Statement”.

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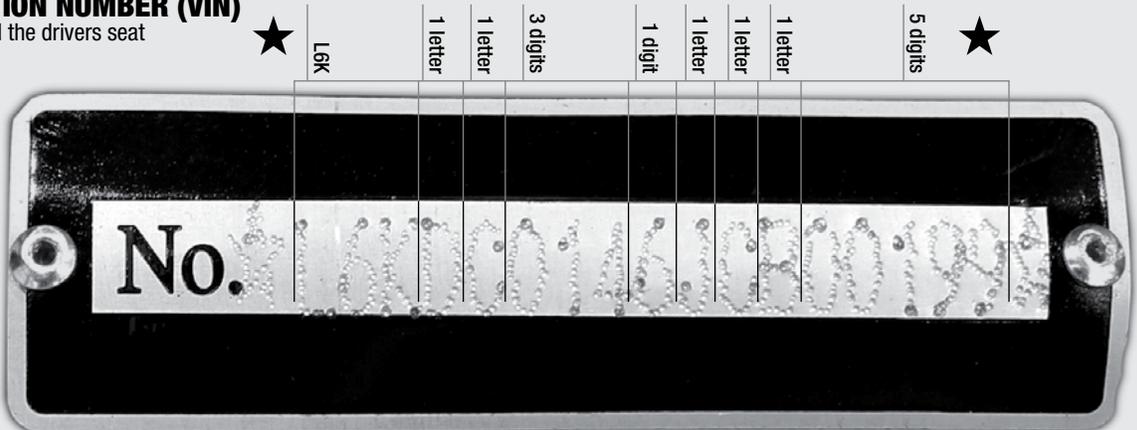
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YOUR VEHICLE IDENTIFICATION NUMBER (VIN)

the VIN plate is located on a bar behind the drivers seat

The VIN number begins and ends with a star. **THIS CHARACTER IS NOT IMPORTANT**

Making sure your VIN is noted correctly greatly reduces any delays in getting help with parts, accessories or any warranty work.



MODEL: 3171 BLACK WIDOW

17 DIGIT VIN: **L 6 K**

FOREWORD

Congratulations on the purchase of your American SportWorks / ASW Fun Kart. Please take a few moments to get well acquainted with your vehicle by reading the Operator Safety Manual as well as this Owners Manual / Parts Guide. Before operating this vehicle, the owner, and each operator, must understand that this vehicle was not designed or manufactured to meet specifications for use on public roads, streets, highways and thoroughfares. The owner, operator(s) and passenger(s) must read and understand all the instructions for proper assembly and safe operation, as well as the instructions concerning the engine and all other portions of the vehicle as described and illustrated in this manual, the Operator Safety Manual and on the included Kart Safety DVD. Children must be 13 years of age or older and supervised by an adult at all times when using the vehicle. This vehicle is not a toy.

Be sure to follow the recommended maintenance schedule and service your machine accordingly. Preventative maintenance is extremely important to the safe operation and longevity of your vehicle.

Inexperienced and first time drivers are urged to seek instruction from a dealer or qualified instructor before and during the initial use of this vehicle. It is also recommended to practice in a large open area to become familiar with the operation of the machine. This vehicle is designed for drivers and riders 13 years and older.

For more information on American Sportworks and its products visit our website at www.amsportworks.com.

New Vehicle Limited Warranty

For a detailed description of warranty coverage for your vehicle, refer to the Warranty section of the Owners Manual / Parts Guide as supplied with the vehicle, or go to www.amsportworks.com.

Emissions Warranty

For a detailed description of the emissions warranty for your vehicle, refer to the Emissions Warranty section of the LCT Engine Operation Manual as supplied with the vehicle.

Cell Phone Use

The use of Mobile Communications Equipment has become increasingly important and prevalent in both personal and business affairs. Drivers must not compromise their own, or others safety when using such equipment. ASW recommends against the use of any handheld device while driving this vehicle.

We hope you will have a fun, safe experience with our products and thank you again for choosing an American SportWorks Fun Machine.

Your vehicle has been supplied with:

- ***OPERATOR SAFETY MANUAL (Book 1)***
- ***OWNERS MANUAL / PARTS GUIDE (Book 2)***
- ***KART SAFETY DVD***
- ***ENGINE MANUAL***

If any of these items are missing or were not supplied with your vehicle, please contact American SportWorks at 800-643-7332 or visit our website at www.amsportworks.com.

safety section

SOME WORDS ABOUT SAFETY

Please thoroughly read and understand the Safety Section outlined in the Operator Safety Manual supplied with this Fun Kart along with the Kart Safety DVD. If, for some reason, you did not receive these items please contact American Sportworks or visit our website at www.amsportworks.com.

WARNINGS AND CAUTIONS

 This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Read and follow all instructions in the Operator Safety Manual, this manual and any accompanying manuals before attempting to operate this vehicle. Make sure to view the Kart Safety DVD.

 WARNING

Indicates a potential hazard that could result in severe personal injury or death.

 CAUTION

Indicates a potential hazard which may result in personal injury or damage to the machine.

NOTE: Use of the word "NOTE" will alert you to key information or instructions.

KART OPERATION

A. Operation controls

⚠ WARNING

Do not attempt to start or operate the engine until completely familiar with the location and use of each control necessary to operate this vehicle. The operator must know how to stop this machine before starting and driving it.

B. Throttle

The right foot pedal is the throttle, controlling the speed of the kart. As the engine speed increases above idle, the clutch automatically engages and moves the vehicle forward. To disengage the clutch at any time, allow the throttle to return to the idle position. (see figure 2.1 below)

⚠ WARNING

Every time, prior to starting the engine, check the throttle assembly to ensure that when the pedal is pushed all the way forward the assembly is working smoothly and returns to idle when released. Do not operate this unit if pedal or engine throttle linkage fail to return to the idle position. If unable to correct the problem through lubrication, adjustment or replacement of worn parts, contact your dealer for assistance.

C. Fuel Valve (see figure 2.1)

The manual valve is mounted to the bottom of the fuel tank. Refer to the Engine Manufacturer Operation Manual. The fuel valve location can be seen in figure 2.4. **NOTE: Turn fuel valve to OFF position during transport**

figure 2.1 fuel valve in "ON" position



D. Brake

The brake is controlled by the left foot pedal (see figure 2.2). Applying pressure to the pedal draws the brake pads against the brake disc at the wheels and slows or stops the kart. The locking lever can be applied to act as a park brake and should remain applied during starting and engine warming (choke cycle).

E. Engine Starting

Apply foot brake and ensure the Engine Stop Switch is in the RUN/ON position. Have a supervisor start the engine by applying the choke, located on the engine, then pulling the recoil starter. **NOTE: Your Fun-Kart is equipped with (2) engine stop switches, one located on the dash and one located on the engine electrical cover. BOTH switches must be in the "RUN/ON" position for the engine to start.** The engine will warm up within 5 minutes, allowing the engine to operate at the normal RPM. The choke may be closed at this time. On a warm day, this period of time may be reduced to less than 1 minute.

F. Engine Stop Switch

This vehicle is equipped with 2 Engine Stop Switches for added safety. One is located on the steering column (see figure 2.2) and the other is located on the engine (see figure 2.4). Before driving this vehicle, test the Engine Stop Switches to ensure that they are operating properly. With the engine running, switch the Engine Stop Switch to the STOP/OFF position to shut down the engine. The stop position may be identified on the switch by the word "STOP", the word "OFF" or the symbol "○"

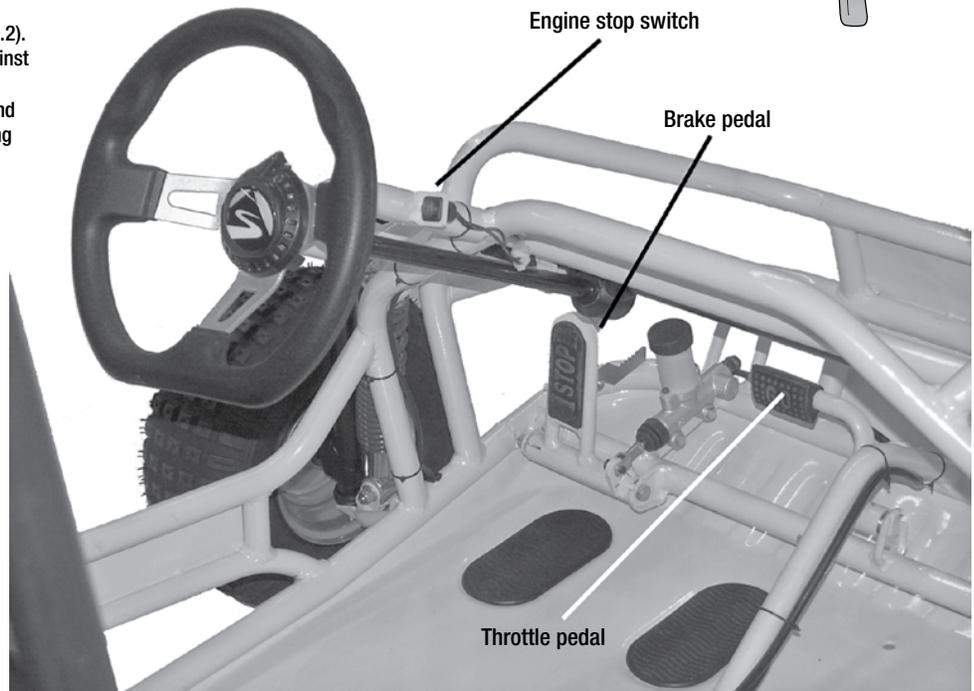


figure 2.2

G. Seat Adjustment

The unit is equipped with an adjustable seat. To adjust, remove bolts on seat frame. Move the seat to desired location, ensuring that bolt holes are aligned. Replace bolts in seat frame and securely attached seat.

⚠ WARNING

Never operate this kart when the seat is not securely bolted into position. Serious injury or death could occur due to loss of control. Always make seat adjustments with the kart fully stopped and the engine shut off.

H. Occupant Restraints

This kart is equipped with 3 point retracting seat belts. Insert the metal tongue into the buckle until it is securely attached. Final adjustments should be made with the plastic tension stop such that the belt is against the shoulder and chest with no excess slack.

⚠ WARNING

Operating this kart without your seat belt could cause you to be thrown from the kart, causing serious injury or death.

I. Rear Spoiler

The spoiler is NOT to be used as a cargo rack. Do not place items on, or tie items to the spoiler.

⚠ WARNING

Attempting to use the spoiler as a cargo rack may cause serious injury or death. Do not place items on, or tie items to the spoiler.

J. Park Brake (see figure 2.3)

The park brake should be applied during starting, engine warming (choke cycle), and anytime the vehicle is parked and/or left unattended. The park brake is set by applying pressure to the brake pedal and latching the locking lever over the latch pin.

To apply the park brake

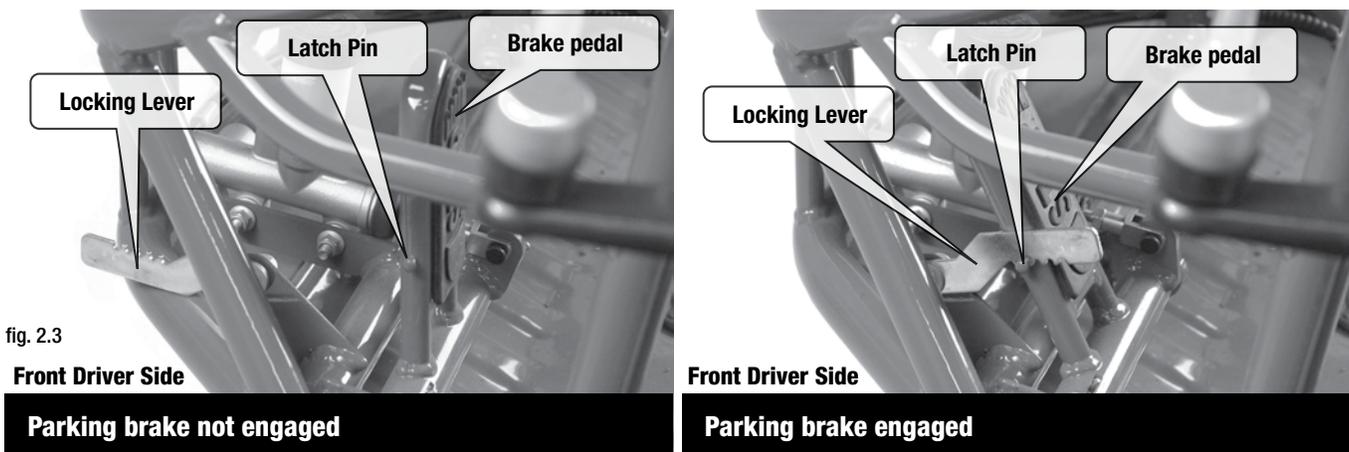


fig. 2.3

Front Driver Side

Parking brake not engaged

Front Driver Side

Parking brake engaged

⚠ CAUTION

NEVER use E-15 or E-85 fuel or blends with Ethanol content in excess of 10%. Ethanol blends in excess of 10% will cause damage to the engine and void manufacturer warranty

- a. **Use regular unleaded 87 octane gasoline with up to a 10% ethanol blend.**
- b. **This engine supplied with this Fun-Kart is NOT designed for Flex Fuel operation.**

KART FEATURES AND LOCATIONS

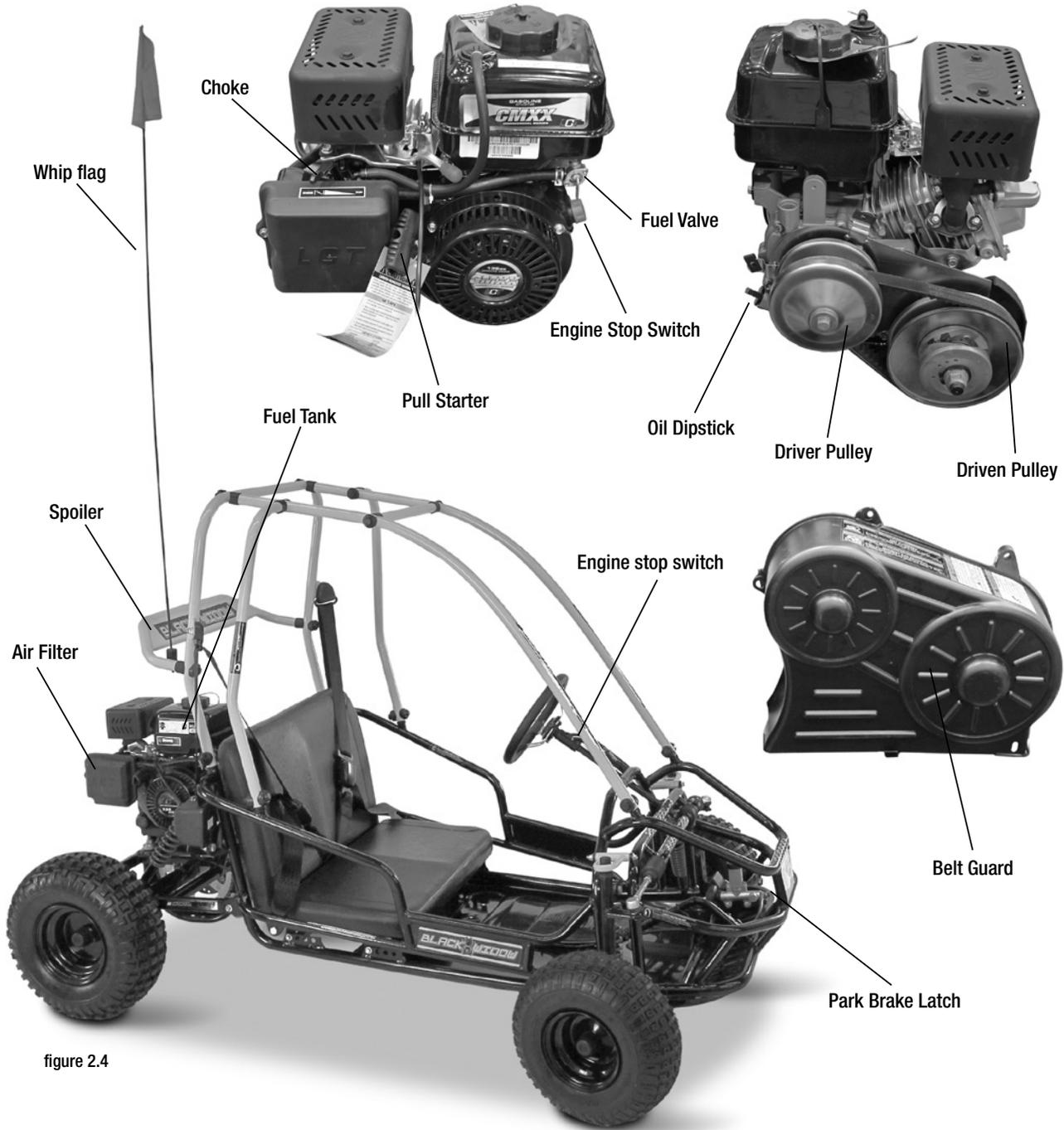


figure 2.4

REPLACEMENT PARTS AND SERVICE

Most replacement parts are typically available from your dealer. Because of immediate availability and convenience, it is recommended that replacement parts be ordered from an authorized dealer. Take this manual and all supplements to the dealer when ordering parts in person.

If replacement parts are not available from a dealer, they may be ordered directly from American Sportworks by contacting ASW at 1-800-643-7332 or online at www.amsportworks.com. Orders may be subject to a minimum fee. A listing of authorized service center locations in your area is also available from our Customer Service department.

Record the Vehicle Identification Number (VIN) in the spaces provided at the front of this manual. The VIN can be found on the crossbar, behind the seat.

SERVICE INSTRUCTIONS

A. Engine Service

NOTE: Engine service and maintenance refer to Engine Manufacturer Operator's Manual.

B. Cleaning Instructions

Keep your kart clean by using a clean rag and a mild detergent and water solution. Wipe off all dirt and oil from around the controls. Wipe off any spilled fuel and oil. Keep the engine clean and clear of foreign objects, especially those around the air intake fan and air inlet ductwork.

C. General lubrication

Lubricate the vehicle at least every 90 days, and more often, if the kart is used daily or in unusually dusty conditions.

D. Chain Lubrication and Adjustment (see figure 2.5)

For optimum chain life, lubrication with a spray on chain lubricant should be performed on a regular basis. **DO NOT USE OTHER OILS.**

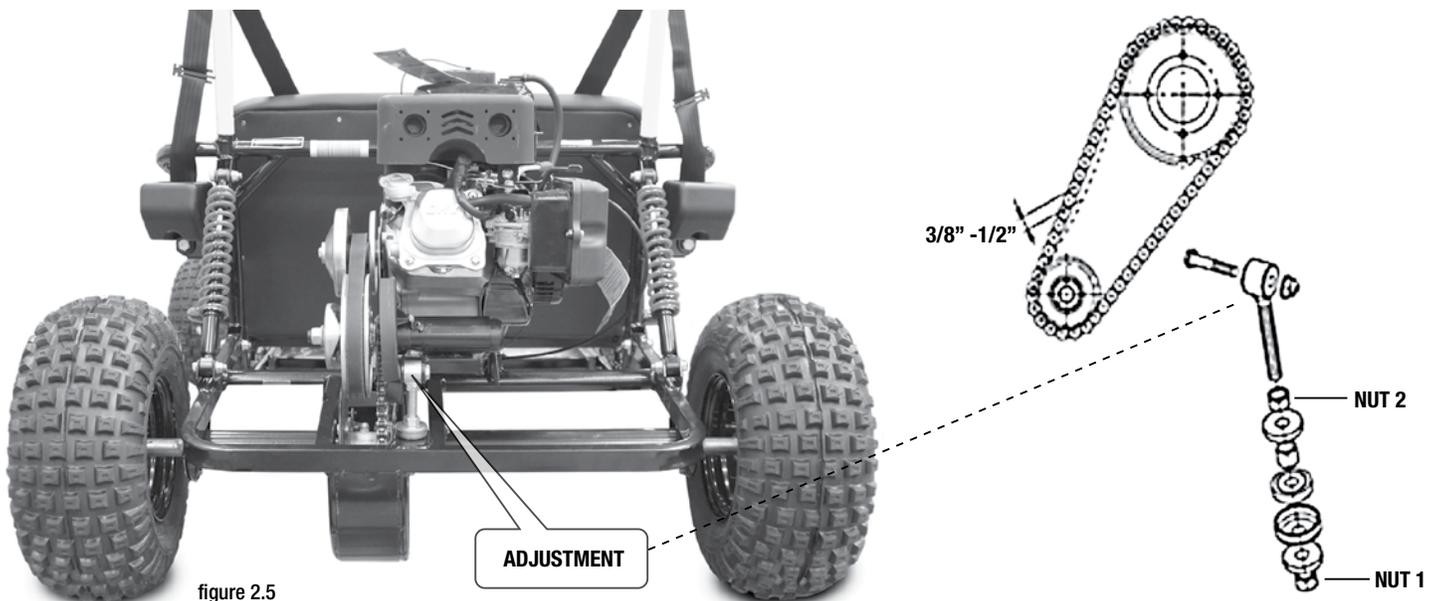


figure 2.5

A new chain will stretch within the first few hours of use and therefore will require adjustment. The first chain adjustment should be made after the first 2 hours of use. If the chain has more than $\frac{1}{2}$ " of slack or "flex" then it will require adjustment. To adjust:

- 1) Loosen nut 1
- 2) Adjust nut 2 until the proper chain tension is achieved
- 3) Re-tighten nut 1

E. Belt Replacement

Ensure the kart is on a smooth flat surface and the engine is OFF. Apply parking brake. Remove the three mounting bolts for the belt cover. Remove mounting screw located behind the belt cover at the bottom. Using a $\frac{1}{2}$ " socket or box wrench, remove the drive (front) pulley mounting bolt and pull the pulley off the crank shaft. If the existing belt is still in tact, remove existing belt. If not, look for anything that may have caused the belt to fail prematurely. Inspect and clean pulley with dry cloth or compressed air. Install new belt with the tapered edge away from the engine. Place belt around the driven (rear) pulley and stretch over the crank shaft and onto the spanner. Replace the drive pulley and mounting bolt. Tighten bolt to 30 ftlb.

F. Storage Instructions

If you plan to store (and not operate) your kart for a period in excess of 30 days, or at the end of each driving season, the unit should be set up for storage as follows:

- 1) Drain fuel tank and carburetor by allowing the engine to run completely out of fuel.
- 2) Lubricate the engine cylinder by using an engine fogging oil, following the instructions provided with the product.
- 3) **Do NOT** save or store gasoline over the winter. Using old gasoline, which will deteriorate from storage, will make the engine difficult to start and affect the performance of the engine.
- 4) To protect the paint, plastics and upholstery, it is a good idea to keep the unit covered when not in use.

GENERAL MAINTENANCE

A. Front Wheel Replacement (see figure 3.1)

Remove cotter pin and castle nut. Wheel should be easily removed. After replacing the wheels, tighten castle nut and replace cotter pin with a new one. Replace rubber cover.

B. Rear Wheel Replacement (see figure 3.2)

Remove cotter pin, castle nut, and washer. Wheel should be easily removed. After replacing the wheels, replace the washer, tighten castle nut and replace cotter pin with a new one. Replace rubber cover.

C. Front Wheel Alignment (see figures 3.3 & 3.4)

The front wheels should be set with a “toe-in” from 1/4” to 1/2”. At the centerline of the tires, measure the Distance A and the Distance B. For proper toe adjustment, Dimension A should be 1/4” – 1/2” greater than Dimension B. While adjusting, ensure rubber boots are in good condition. To make adjustments:

- 1) Loosen the lock nuts on both sides of Front Tie Rods.
- 2) Ensure the steering wheel is centered, and adjust Dimension B by equally rotating the tie rods in or out with a 12mm wrench.
- 3) After adjusting to the desired length, tighten the lock nuts against the Tie Rods.
- 4) Recheck the dimensions for proper alignment.

Front Wheel

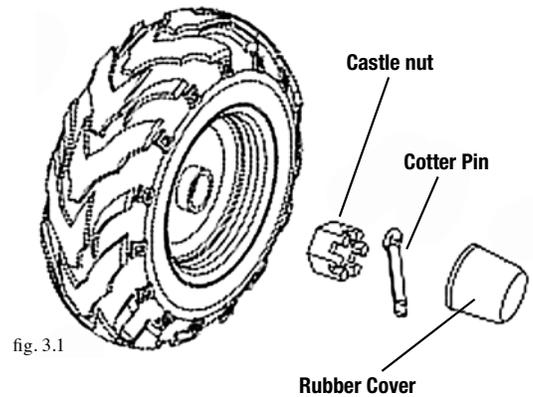


fig. 3.1

Rear Wheel

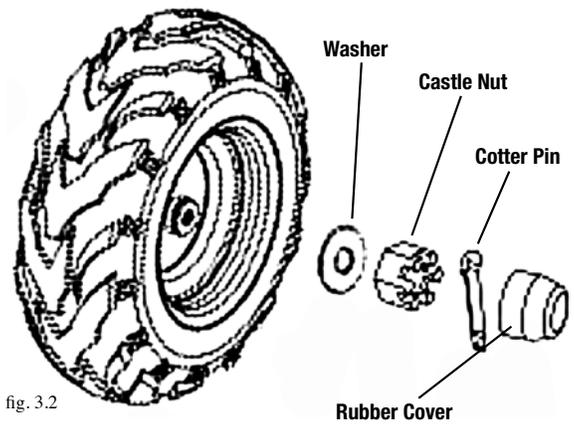


fig. 3.2

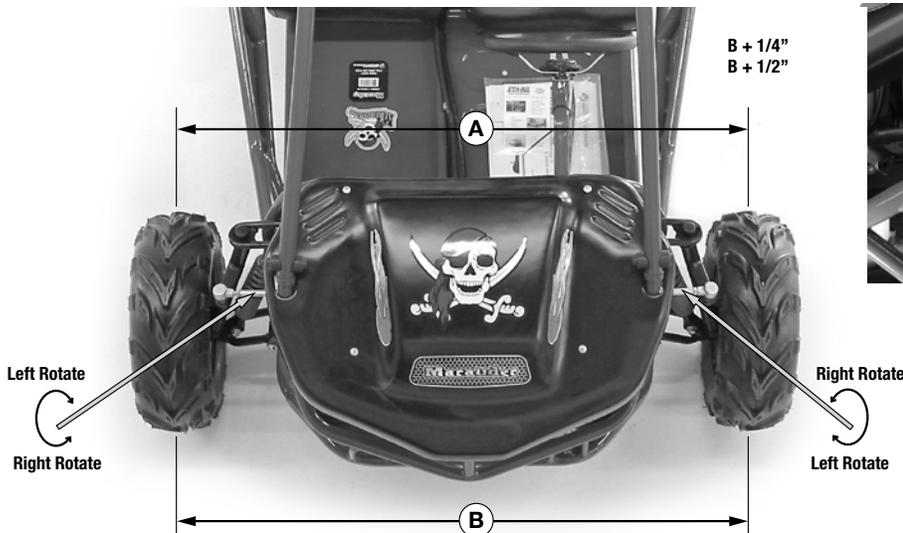


fig. 3.3



fig. 3.4

Toe Adjustment Diagram

(Model 5210 kart shown)

CAUTION

Prevailing torque type locknuts must be replaced with new after the old locknuts are removed.

D. Optional Speed Reduction Kit installation

This kart has been equipped with provision for a speed reduction kit to reduce the overall speed of the unit to 20mph max. This kit is available from your dealer or directly from American SportWorks by calling customer service at 1-800-643-7332. Or visit our website at www.amsportworks.com.

E. Driver Pulley Lubrication and Cleaning (see figure 3.5)

The driver pulley may perform poorly if not lubricated properly within each 25 hour period. Premature failure of its components may also occur. Before reaching 25 hours of operation, remove the driver pulley from the engine output shaft paying close attention to how all the components nest with each other inside the driver pulley. Disassemble the components of the driver pulley. Using brake or carburetor cleaner and a soft brush, clean all the components of the assembly. Ensure there are no rough surfaces. Apply a dry graphite lube to the entire outer surface of the hub and the inner surfaces of the outer stationary sheave. Allow the lube to dry completely. Reassemble the driver pulley and install onto the engine output shaft.

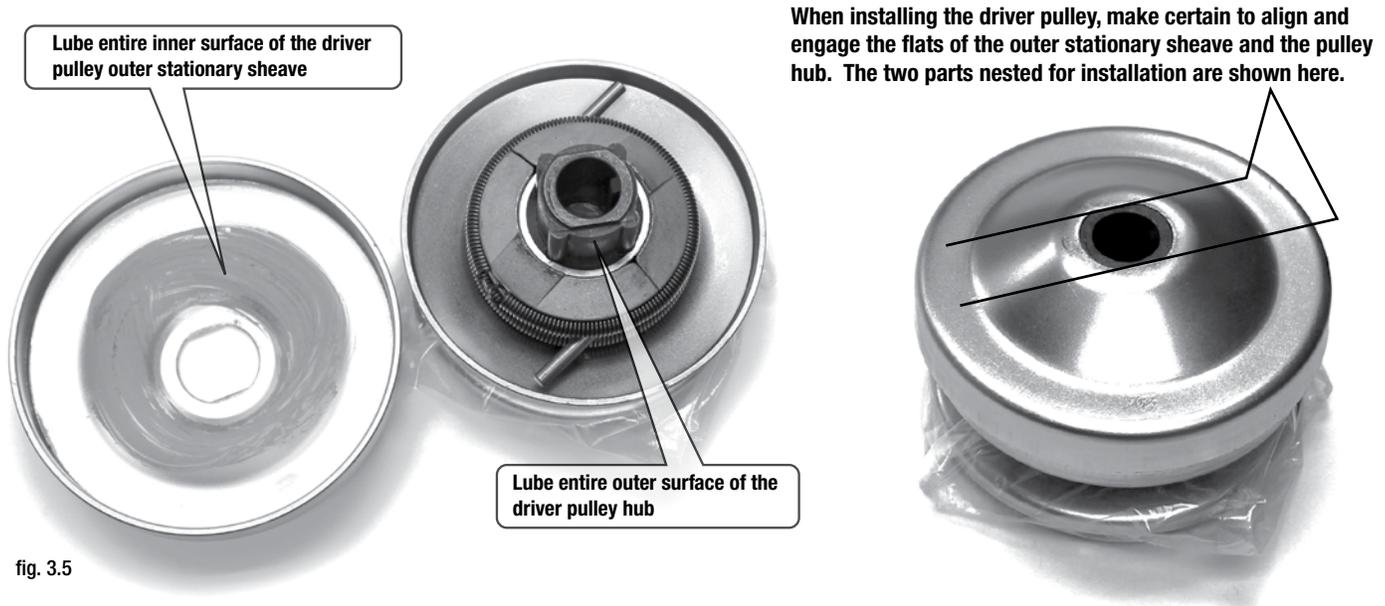


fig. 3.5

⚠ WARNING

The Safety Flag is added to this kart for off-road visibility ONLY. It is provided, and required, for increased visibility, especially on hilly terrain and is required by law in many States.

F. Safety Flag Installation (see figure 3.6)

- 1) Insert the safety flag (13) into the head of the hollow nut (10).
- 2) Insert the bolt (5) through the bracket on the frame.
- 3) Place nut (6) on bolt (5) and tighten.
- 4) Insert flag (13) into bolt (5) and tighten nut (10).

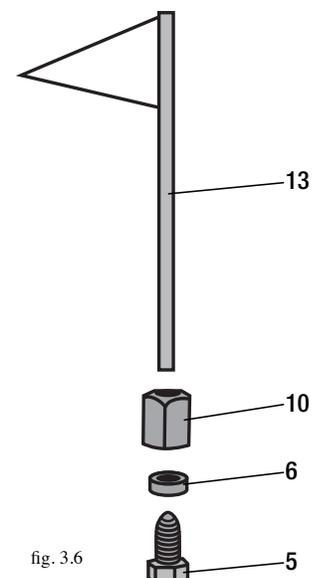


fig. 3.6



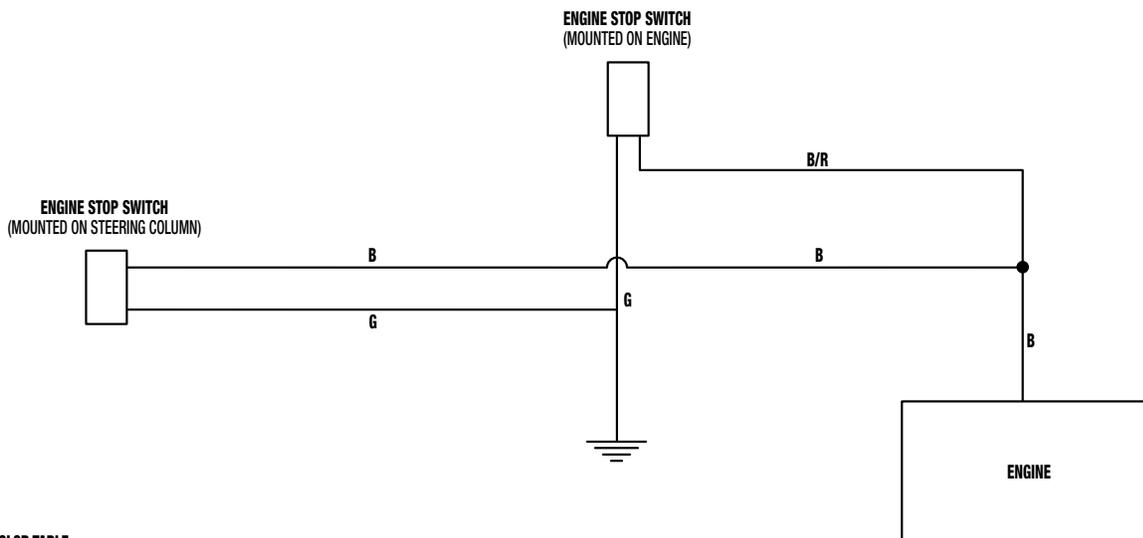
SPECIFICATIONS

For ages 13 and over

ENGINE	
Type	Single cylinder, 136cc, air cooled, 4 cycle
Power (BHP @ RPM)	≈ 4.1 @ 3500
Torque (ft-lbs @ RPM)	≈ 7.1 @ 3150
Starting system	Pull recoil with manual choke
Air filtration	Dual element
Exhaust system	Muffler with heat shield
Fuel capacity	.67 gal
Oil capacity	16 oz.
Spark plug	Torch F6RTC
TRANSMISSION	
Type: dual wheel drive	CVT
CHAIN SIZE	
	#420 1/2" Pitch
TIRES & WHEELS	
Front / rear	145/70 - 6 16" x 8" x 7
ADVANCED GEOMETRY SUSPENSION	
Front	Double A-arm with damped shocks
Rear	Swing arm with damped shocks
STEERING	
Type:	Rack and pinion

FRAME	
Type - heavy gauge - jig welded	1" Main frame
Rear axle	7/8" Hardened alloy steel
Finish	Baked powder coat
BRAKES	
Type: rear	Single hydraulic disc
PERFORMANCE	
Max speed approx.	Up to 24 mph
Fuel consumption	Up to 50 mpg
SPECIAL FEATURES	
Seat	Adjustable bench foam padded
Restraint system	3-Point shoulder / lap belts with retractor
Engine stop switch / dual	On engine and in dash
Custom bars	1" Full brush bars
Safety	Whip flag / pedal latch style parking brake
DIMENSIONS	
Curb weight	268 lbs.
Weight (driver, passenger & gear)	300 lbs.
Seat to pedals	33" - 37"
Wheelbase	50"
Vehicle - overall	71"L x 47"W x 49"H

3171 ELECTRICAL SCHEMATIC



WIRE COLOR TABLE

Black	B
Green	G
Red	R



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