

Tri-Sport

OWNER'S MANUAL

TS series



Alsport[®], Inc.

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A WORD TO TRI-SPORT OWNERS

This manual has been prepared to acquaint you with the operation and maintenance of your Tri-Sport. We urge that you read it carefully and follow the recommendations it contains. Proper maintenance will insure many hours of trouble free pleasure with your Tri-Sport.

Your Tri-Sport is manufactured for off-road use only and is not recommended for highway use. You must mail the warranty card, which is included on the back cover, to insure that your unit is covered under the warranty.

For service beyond routine maintenance, please see your Tri-Sport dealer. He is fully trained in all servicing aspects of your Tri-Sport.

May we take this opportunity to thank you for choosing Tri-Sport and assure you of our continuing interest in your pleasure and satisfaction.

Aisport, Inc.
84 Whittlesey Ave.
Norwalk, Ohio 44857

**WARRANTY MUST BE RETURNED WITHIN 10 DAYS.
SEE CARD AT REAR OF BOOK.**

TRI-SPORT REGISTRATION CARD

MR. DEALER:
PLEASE COMPLETE THIS REGISTRATION CARD AT TIME OF SALE
AND RETURN TO DISTRIBUTOR AS SOON AS POSSIBLE.

MODEL _____
SERIAL NO. _____ VEHICLE NAME _____
PURCHASED FROM (DEALER) _____
ADDRESS _____
CITY _____ STATE/PROV. _____
DATE PURCHASED _____
OWNERS NAME _____
ADDRESS _____
CITY _____

(Return This Portion to Distributor)

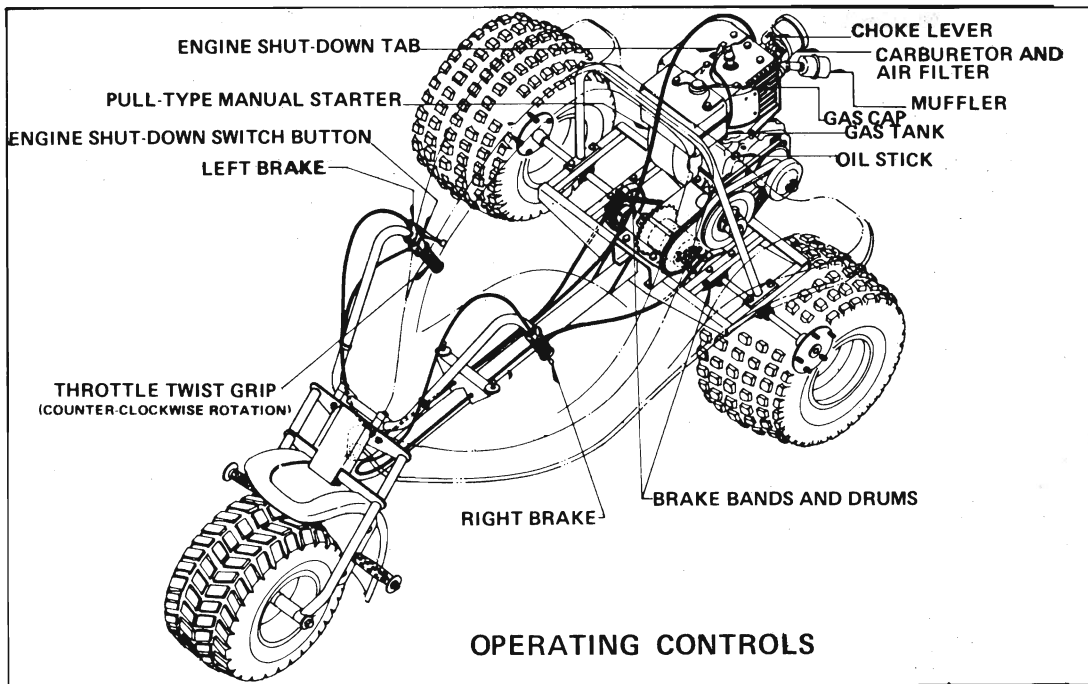
IMPORTANT OPERATING AND SAFETY INSTRUCTIONS

OPERATION

1. Always use a REGULAR GRADE leaded gasoline and a high quality DETERGENT oil, i.e., MS or SD or SC. See fuel and oil section for detailed instructions.
2. Be certain your tires are deflated to 3 lbs. rear tires and 4 lbs. front tire for a smoother ride.
3. Left brake is for left wheel (left turn) and right brake is for right wheel (right turn). It is not necessary to pull both brakes to stop if you are going in a straight direction.
4. Check oil level as recommended in engine manual. Also see proper winter oil in fuel section.
5. Practice in an open area so that you are completely familiar with your Tri-Sport before serious operation.
6. Read the owner's manual thoroughly before operating your Tri-Sport.

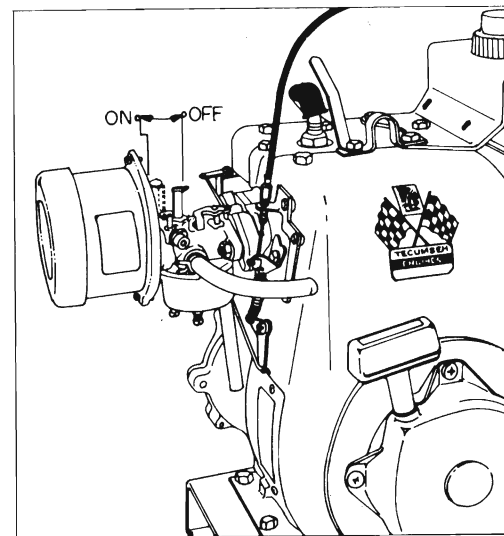
SAFETY

1. All operators should be of an age to understand the unit and its operation.
2. Tri-Sport is designed for off-road use only and with one driver.
3. The engine warranty will be void if the engine is tampered with in any way. This includes the governor as well as proper gasoline and oil. See engine manual.
4. Never start the engine unless you are absolutely certain that the throttle is in the idle position.
5. Never drop your feet to the ground while your Tri-Sport is in motion.
6. Operator should wear approved protective headgear while operating unit.



PROPER STARTING INSTRUCTIONS

1. Fill oil reservoir and gas tank with recommended oil and gasoline.
2. Check to make certain that throttle is in idle position.
3. Move choke lever to "choke" position if engine is cold. Choke need not be used to restart a warm engine.
4. Put front tire against a tree or other solidly mounted object.
5. Grasp recoil rope and pull up and away with one full, quick motion. If engine fails to start after 3 or 4 pulls, put choke in "off" position and pull starter rope several times to clear excess fuel.
6. After engine has started, allow to run for a few moments to warm up; then move choke to off position if used for starting.
7. Move front of vehicle toward open area. Avoid handling or pulling unit by throttle which is located on right end of the handle bar.



FUEL AND OIL

4 CYCLE - 3 HP, 5 HP, 8 HP

FUEL

For all four cycle engines REGULAR grade leaded gasoline is recommended. Non-leaded (lead free) or low-leaded gasoline is an acceptable substitute. The same fuel can be used all year long.

OIL

For all four cycle engines use only a high quality DETERGENT oil having an engine service classification MS or SD or SC.

Summer - Above 32^o F. - SAE 30 (SAE 10W30, or 10W40 are acceptable substitutes).

Winter - Below 32^o F. - SAE 5W20. (SAE 10W or 5W30 acceptable substitutes).

Severe Winter - Below 0^o F. - Only SAE 10W diluted with 10% kerosene.

DO NOT MIX FUEL AND OIL WITH 4 CYCLE ENGINES.

2 CYCLE - 21 HP

NOTE: Fuel and oil must be pre-mixed on all 2 cycle engines.

1. Use only regular gasoline and 2 cycle engine oil.

Proper fuel/oil mixture ratio is 20 parts regular gasoline to 1 part 2-cycle engine oil. (1 quart oil to 5 gallons gasoline).

2. Slightly more 2-cycle oil should be used during the break-in period. (1 quart to 4 gallons regular gasoline). We recommend our Steen "C" oil.

3. For best results, mix gasoline with oil at room temperature. Never mix gas and oil in tank. It should always be pre-mixed.

MAINTENANCE INSTRUCTIONS

Always disconnect spark plug wire before performing maintenance.

1. After the first two (2) hours of engine time the oil should be changed. (4 cycle). Oil change should occur every 10 hours of running time.

NOTE: 2 cycle engines have gasoline and oil pre-mixed.

2. After every 20 hours of running time the weights on the drive pulley must be lubricated. Take the belt off and move the weights forward. Never Ceas should be inserted between the weights and the external bell housing.

3. Grease the front wheel bearings after each 40 hours of operation. Grease zerk is installed in wheel hub.

4. The air filter must be cleaned after each 5 hours of operation. Disconnect air filter housing, remove filter and hit the filter a mild blow against something solid.

CAUTION: Do not operate your Tri-Sport without filter. Filter is paper and therefore cannot be washed.

5. Rear tires should be run with not more than 4 lbs. of air. Use Alsport self sealing compound if your tire tends to lose air pressure.

6. Go over your Tri-Sport often to tighten all nuts and bolts. Like all vehicles of this nature, it must be checked and maintained continually.

7. The chain must be lubricated after every 5 hours of operation or sooner. A standard chain lube can be used.

8. Rear differential should be taken apart every 75 hours for cleaning and repacking.

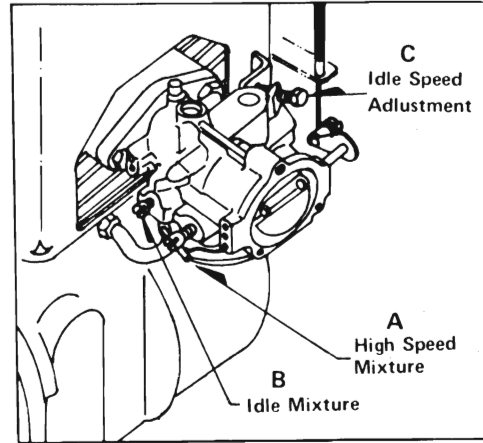
9. If the assymetric belt is ever removed from the 5 HP or 8 HP Tri-Sports, remember that the flat side of the belt goes toward the engine when it is reinstalled.

10. If belts fray or lose 1/16" in width measured from the top, they should be replaced. Belts are not a warranty part.

CARBURETOR ADJUSTMENT

1. Four (4) cycle carburetors are pre-set and need little or no adjustment.
2. Two (2) cycle carburetors are more affected by weather and altitude, therefore, adjustment may be required more often.
 - a. Idle mixture screw (B). Normal running adjustment would be $3/4$ of a turn out. Turn $1/8$ turn either way until engine is running smoothly.
 - b. High speed mixture screw (A). Normal running adjustment would be $1\ 1/8 - 1\ 1/4$ turn out. Adjust until engine is running at full RPM under load. Higher altitudes require a leaner mixture.

NOTE: Never run engine too lean as it will score the piston. Always adjust, then richen (open) $1/8$ turn.



- A High Speed Mixture Screw
- B Idle Mixture Screw
- C Idle Speed Adjustment Screw

ACCESSORIES

SPECIAL NOTES

Accessories are designed mainly with a purpose in mind. They will carry items, protect your Tri-Sport, or protect the driver. Your authorized dealer will carry a complete stock of accessories for your convenience. If you don't see what you want, ask your dealer; he will be happy to order from the factory.

Seat pads are standard on all Tri-Sports except for the MTS-30.

The deluxe dune flag must be installed on a unit which has a lighting coil.

STANDARD SIZE UNITS

Light Kit
Roll Cage with Head Rest
Cargo Carrier with Head Rest
Seat Pads
Hitch Plate
Wheelie Wheel
Windshield
Hub Caps
Junior Foot Rest
Dune Flags, Standard or Deluxe
Front Ski

MTS 30

Roll Cage with Head Rest
Seat Pad

Tri-Sport Models

MTS-30	3 HP	Mini Tri-Sport
TS-100	5 HP	Deluxe Body
TS-130	8 HP	Deluxe Body
TS-290	21 HP	Deluxe Body

Tri-Sport Accessories

Light Kit
 Roll Cage with Head Rest
 Cargo Carrier with Head Rest
 Seat Pad
 Hitch Plate
 Wheelie Wheel
 Windshield
 Hub Caps
 Junior Foot Rest
 Dune Flag - Deluxe
 Dune Flag - Standard
 Front Ski
 MTS 30 ACCESSORIES
 Seat Pad
 Roll Cage with Head Rest

Tri-Sport Specifications

	MTS-30	TS-100	TS-130	TS-290
Engine size	3 HP	5 HP	8 HP	21 HP
Length	59"	81"	81"	81"
Width	40"	48"	48"	48"
Weight	150 lbs.	180 lbs.	180 lbs.	199 lbs.
Tires (front)	5.30x4.50x6	18x9.50x8		
Tires (rear)	18x9.50x8	21x11x8		
Clutch	Torque converter for automatic response and handling ease			
Differential	Automatic type for individual wheel response			
Axle	Heavy duty case hardened steel			
Gear ratio	30.2:1 Low range, 8.1:1 High range			
Brakes	Band/drum type for instant response, long life			
Gradability	45°			

1. Be certain that you are familiar with the function of all controls before starting out.

2. When riding in soft sand or snow be sure to deflate your tires as much as possible to improve floatation. Recommended PSI of 2 to 3 pounds of air.

3. When going up a steep grade do not accelerate suddenly. One should learn to judge what speed is required to climb a given grade and maintain that speed during the climb. This will avoid spills or turn overs on hill climbs.

4. Caution should be maintained in turning sharply. The tires have a high grip factor and will not slide on asphalt or cement surfaces. Side slip or drifting in corners can be fun if done with caution.

5. Doing wheelies can be damaging to your machine. Broken carburetors and/or mufflers are not covered under the engine warranty. If you are desirous of doing wheelies, we recommend that you purchase a roll cage or wheelie wheel for protection.

6. Lean into corners slightly. This will improve stability.

7. Should you feel like your machine is going to stall out during a steep climb, turn the vehicle around as soon as possible. Brakes are energizing type and may not hold well in reverse.

8. Learn to drive your Tri-Sport slowly. Get the feel of the unit before trying any racing or fancy driving.

TROUBLE SHOOTING

1. Engine Misfire

Check carburetor adjustment, spark plug, and safety switch.

2. Clutch malfunction

Disassemble and check springs. Clean and lubricate.

3. Excessive Chain Noise

Check alignment, chain adjustment and lubricate.

4. Engine fails to start.

Check plug for spark or fouling (excessive fuel). Check safety switch to see that it is not stuck or malfunctioning. Check choke to see that you are not flooding engine. Check carburetor adjustment.

5. Throttle Sticking

Check cable for dirt or ice in twist grip or cable housing. Check throttle linkage. Check return springs or carburetor.

6. Brakes sticking or hard to operate.

Check cables for dirt or ice in housing. (Lubricate often with graphite during winter months). Check for oil on brake bands or glazed bands.

A WORD ABOUT THE WARRANTY

Please familiarize yourself with the warranty provisions for your Tri-Sport as indicated on the back cover. All machines and engines are fully warranted against failure in compliance with the terms set forth by Alsport, Inc. and our component suppliers. The engine is warranted by the engine manufacturer. The only items on the Tri-Sport which are not covered by warranty are drive belts, seat cushions, or spark plugs.

The warranty period as spelled out in the warranty is for 90 days from the original date of sale. The fact that our product is repaired or replaced during the original 90 day warranty period does not extend the expiration date of the original warranty.

No vehicle will be considered under warranty unless a card properly filled out has been mailed by the owner. Four cycle engine repair or service will be done at an authorized Tecumseh repair station.

ALSPORT, INC. WARRANTY

For ninety days from purchase date, Alsport, Inc. will replace free of charge, any part or parts found, upon examination by an authorized Alsport Recreational Vehicle Dealer or by our Technical Service Director, to be defective in material and/or workmanship.

All transportation or labor charges on parts submitted for warranty shall be borne by the purchaser.

This warranty shall not apply to the Company's products which must be replaced or repaired due to normal wear, misuse, negligence or accident, competitive racing, rental purposes, or which have been altered or modified by the addition of parts, mechanisms or equipment or otherwise modified in any manner except upon the express prior written authorization of Alsport, Inc.

There is no other warranty expressed or implied and the Company shall be under no liability whatsoever in respect of any loss, damage, injury or expense arising from any defect in said product or products.

Do not return any parts to the Company without prior authorization.

DEALER _____

TRI-SPORT REGISTRATION CARD

TO VALIDATE WARRANTY PLEASE COMPLETE AND RETURN THIS CARD. No warranty will be honored unless registration card is on file at Alsport within 10 days after purchase.

MODEL _____

SERIAL NO. _____ VEHICLE NAME _____

PURCHASED FROM (DEALER) _____

ADDRESS _____

CITY _____ STATE/PROV. _____

DATE PURCHASED _____

YOUR NAME _____

ADDRESS _____

CITY _____

(Return This Portion)

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MODEL _____

SERIAL NO. _____ VEHICLE NAME _____

PURCHASED FROM (DEALER) _____

ADDRESS _____

CITY _____ STATE/PROV. _____

DATE PURCHASED _____

YOUR NAME _____

ADDRESS _____

CITY _____

Place
Stamp
Here

ALSPORT, Inc.
84 WHITTLESEY AVE.
NORWALK, OHIO 44857

Place
Stamp
Here

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NORWALK, OHIO 44857