

IF YOU'VE NEVER OWNED A STARCRAFT, YOU'RE THE REASON WE BUILT THIS ONE. First year camper or seasoned outdoorsman, you expect a trailer that combines reliable performance with easy maintenance. The camping trailer you have just purchased (or rented) is the finest available in the camping industry. We called upon our 42 years of leadership in the boat and recreation vehicle business to build such a camper. This experience enabled STARCRAFT designers to engineer camping trailers suited to human needs and styled to your liking. Scores of extra features were added to give you comfortable, safe, enjoyable camping.

Each STARCRAFT camper has been thoroughly tested and retested, to assure you of a quality product built with integrity and craftsmanship.

You will soon experience the results of our knowhow and careful planning. We welcome you to the STARCRAFT "Wide World of Recreation" and encourage you to derive maximum benefit from your camper by reading the information in this bool at before operation. For best performance and to av. d any unintentional misuse of the equipment, the important recommendations in this manual should be followed closely.

The enclosed warranty registration card should be completed with your dealer at the time of purchase and mailed immediately to validate your warranty protection. It is very important to us to know who has purchased a STARCRAFT product in order that we may extend fullest warranty service to our customers. Please help us by taking time to complete the enclosed card.

STARCRAFT would like to assure your comlete satisfaction with the product you have purch ased.

STARCRAFT COMPANY

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WARRANTY Back or	wer



	Total Weight (lbs.)	Hitch Weight (lbs.)	Load Capacity (lbs.)	Tire Size	Tire Ply Rating	Tire Inflation (PS1)
Executive 6	1850	190	600	6.50 x 13	8	38
Calaxy 8	1660	210	800	6.50 x 13	6	36
Galaxy 6	1610	190	800	6.50 x 13	8	38
Galaxy 4	1570	200	1000	6.50 x 13	6	36
Constellation 8	1440	170	1000	6.50 x 13	6	36
Constellation 6	1440	160	1000	6.50 x 13	6	36
Stardust 8	1480	230	1000	6.50 x 13	6	38
Stardust 6	1480	180	1000	6.50 x 13	6	36
Starmaster 8	1280	130	600	5,30 x 12	4.00	55
Starmaster 6	1300	130	600	5.30 x 12	4	55
Starflite 8	1130	150	600	4.80 x 12	4	65

Check brand name on tire. Above ratings are for Mobiliner. Mobiliner 6.50/7.00 x 13 6 ply inflate to 36 lb. only.

NOTES:

Maximum load and inflation are based on normal highway speeds.

Pressure should be checked when tires are cold.

OPERATION OF YOUR NEW TRAILER

BULB NUMBERS

Clearance lights - No. 1895W automotive Tail lights - No. 1034GE automotive 12v interior light - No. 1141W automotive

HITCH BALL SIZE

All models - Standard or with brakes - 2" ball

WIRING CODE

6 Prong Plug

White - ground

Green - sight turn signal

Red - left turn signal

Brown - tail lights

Blue - accessory wire

Yellow - interior 12v light

HITCH

HITCH - Quick Lock Trailer Coupler

TO UNLOCK - Push locking button forward and lift locking lever.

TO LOCK - Push locking lever handle down until locking button snaps into place.

Adjustment for eliminating play due to wear or variation in ball sizes is operated by turning nut on underside of coupler. NOTE: Coupler is not preadjusted at factory. See Picture.



STABILIZING JACKS

The stabilizing jacks are recessed under the frame of your trailer at the rear corners (plus two additional front corner jacks on the Galaxy and Executive). To swing the jacks into operating position, reach under the trailer, grasp the jack body and push away from you. Then pivot the jack down and allow it to spring back into a locked position. (To return it of travel position, pull down, plvot back under trailer, and allow it to spring back into locked travel position.)

Once in the down position, operate as follows:

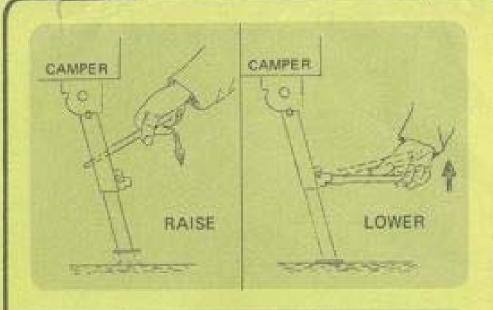
HAND ADJUSTABLE TYPE (Starflite Trailer)

The telescoping jack foot slides out of the jack body by pushing the foot slightly away from you and pulling down. Select the adjustment notch closest to desired position and snap the foot into a locked position. A few turns on the front dolly wheel jack will put stabilizing pressure on the rear jacks.

LEVER ADJUSTABLE TYPE (All Other Models)

Slide the jack foot to ground level and apply pressure with lever as indicated below.

On soft ground a flat board under the jack foot will prevent it from sinking in the ground.



YOUR CAMPER ROOF SHOULD BE UP BEFORE ATTEMPTING TO STABILIZE THE
UNIT WITH JACKS AND THE JACK TENSION
SHOULD BE RELIEVED BEFORE LOWERING
THE ROOF. The telescoping lifters are aligned with
the trailer setting on its wheels. While stabilizing the
trailer on jacks you may temporarily twist the frame
and cause the lifters to stick.

FRONT JACK AND DOLLY WHEEL

The front jack should be completely raised while traveling. To install the dolly wheel, slip the socket over the jack leg and slide the indentation in the Wheel socket up the slot in the jack leg. Once completely on, give the wheel socket a quarter turn to lock in place.

On trailers equipped with brakes, the dolly wheel slips over the jack leg and is held in place by tightening the thumb screw in the socket.

Use this jack and dolly wheel whenever removing the trailer from your car or moving the trailer while off of the car. It should never be necessary to physically lift the tongue of your STARCRAFT.

VELCRO FASTENING

The canvas sidewalls are fastened to the door frame with a closure called Velcro. Velcro eliminates snaps and provides a windproof, bug proof, and wrinkle free fastening around the door. The fastening sounds as though it is stickey, but actually is made up of tiny nylon "hooks" on one side and nylon "fuzz" on the other. The hooks grab the fuzz each time they are pressed together. It will not wear out or lose its adhesive ability.

CLEAR VINYL CURTAIN - All Models

All the canvas inner curtains are fitted with zippers that open from the top down so that you can open small areas at the top of the window for ventilation without loosing privacy.

In addition the large window is equipped with a second flap of clear vinyl to let in light while keeping wind and weather out.

CANVAS ATTACHMENT

The canvas sidewalls of your trailer are attached to the roof and body by special aluminum exto the roof and body by special aluminum extrusions. The canvas stays installed furing set up and take down procedure.

The extrusion can be tightened to securely hold the canvas in place by lightly tapping along the edge with a small block of wood and a mallet.

If you should need to remove the canvas forrepairs or eventual replacement, it will slip out of the extrusions by merely removing the anchor screws at each corner of the roof or body. This "permanent" attachment that can be easily removed is rain proof, wind proof, and dust proof—and a STARCRAFT exclusive.

SAFETY CHAINS

Usually the hitch mounting or bumper support affords a convenient location to hook your safety chains.

Care should be taken to hook the chains close enough to the hitch ball to leave ample slack to turn corners without pulling on chains.

CAR WIRING CONNECTOR

A connecting pigtail is provided to wire into your cars wiring system. Special connecting clips are available at most camping or automotive supply stores which eliminate the need to strip and tape wires. Extra car connector pigtails are available from STARCRAFT, through your dealer, for wiring additional cars.

Be sure there is enough slack in wire to allow turning radius, but not so much as to drag on ground or hang low and catch on passing objects.

A socket is provided on the frame to insert the plug for weather protection when not in use.

12 VOLT ELECTRICAL SYSTEM

The clearance lights, tail lights, brake lights and turn signals operate automatically when you use your automobile lights. The 12v interior light operates by means of a switch on the light only when the car pigtail is connected. Be sure this 12v interior light is OFF before closing your trailer for travel. A light that is left on will scorch your folded canvas.

110 VOLT ELECTRICAL SYSTEM -ALL MODELS EXCEPT EXECUTIVE

The 110 volt wiring provided is a 3 wire fused and grounded system.

To change a fusestat turn off main switch at fuse box. Remove the old fusestat and replace with a new type S 15 amp fusestat. It is advisable to carry spare fusestats.

Fusestat box is located in left front dinette storage area on Galaxy models and left rear dinette storage on other models. See Picture.



An extension cord will be necessary to connect to 110 volt power. Usually a 25 foot or longer cord is necessary. Use a number 16 3-wire cord.

The weather proof 110 volt receptacle for the entire system is located on the exterior at the rear of the trailer.

110 VOLT ELECTRICAL SYSTEM - EXECUTIVE

The wiring for your 110v electrical system is the same type as that used in your home. There are one or more electrical circuits, each controlled by its own circuit breaker. The main circuit breaker box can be found inside the left rear dinette seat storage compartment.

A self-storing 30 amp power cord is standard equipment on the Executive and can be found under the small hatch on the left side of the trailer exterior. Simply release the hatch cover and pull out the cord and plug it into the park electrical system. It would be wise to carry an adapter plug as all parks do not use the same type of outlet.

LP (LIQUID PETROLEUM) GAS SYSTEM

It will be necessary to equip your new trailer with a LP gas bottle and regulator from your STAR-CRAFT dealer or a local LP gas dealer (see the yellow pages).

The tubing and connections were checked at the factory under pressure, but it will be wise to recheck the connections after installing the LP gas bottle just in case any leaks developed in transit to you. Use a soap and water solution at all joints to check for leaks.

Turn off all appliances before opening the valve on the gas bottle. A trapped accumulation of gas will explode. Follow operating instructions carefully for lighting all LP gas appliances.

ROOF LATCHES

The roof corner latches are adjustable for more (or less) tension when securing the roof in travel position. Turn the clamp screw to tighten or loosen the latch so it is comfortable to engage, yet tight enought to compress the weather seal. Too much tension will cause undue stress on the latch.

WINCH

After the roof latches have been opened (THIS MUST BE CHECKED BEFORE OPERATING WINCH) install the winch handle over the winch shaft and crank up the top. A clicking noise in the ratchet is normal and prevents the roof from falling if your hand should slip on the handle.

To lower the roof apply slight up pressure to the winch handle to relieve the strain on the ratchet lever (located near the winch gear). Swing the ratchet lever back out of the gear teeth and proceed to lower the roof. It is wise to keep the ratchet lever ready to engage as a safety lock in case your hand should slip while lowering the roof.

The winch handle is made removeable to keep unfamiliar people from operating the winch.

CRANKING THE WINCH WITH ANY OF THE ROOF LATCHES LOCKED WILL DAMAGE YOUR LIFTING SYSTEM.

DOOR STEP

All trailers with 13" wheels have a door step as standard equipment. It may be easily added to the other models as an accessory.

The door step installs by merely hooking it onto the frame under the door of the trailer.

DO NOT FORGET TO SECURE THE STEP TO THE TONGUE MEMBER WHILE TRAVEL-ING. See Picture.

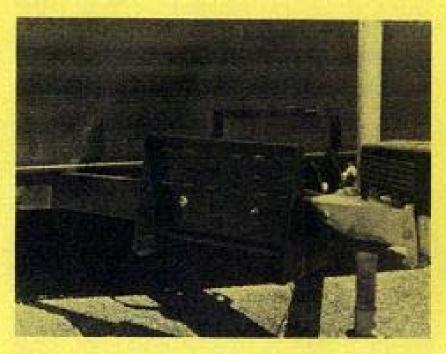


TABLE BEDS

The dinette table(s) convert into beds by folding the support leg under the table top, raising the table top until the wall fastening disengages, and placing the table top between the seats on the ledges provided. The seat back cushions fit on top of the table to make a bed. The table leg folds by grasping the latch mechanism at the top of the leg and pulling down toward the floor.

The table top will also fit in a storage position along the front (or rear) wall between the seats in an upright position. This clears the area between the seats and also provides a guard rail to keep small children from rolling off the extending end bunk.

An extra table mounting extrusion (wall portion)
may be mounted on the exterior of your trailer and
the table used indoors and outdoor if desired.

When the table top is mounted on the wall, it may be slid from side to side to make entering the dinette seats more convenient. Sliding the table all the way to one wall increases countertop work space.

To slide a table just raise the end slightly and push sideways.

When traveling, the table should be in the down position and fastened to the small section of wall bracket provided.

WARDROBE CLOSET

The closet (in all models except Stardust 8, Starmaster 8, Costellation 8) lays clothes flat while traveling. The Galaxy 8 closet leg folds up from the floor and inserts into the bracket on the bottom of the closet. Fold the support wing down after raising the closet and raise the support wing before lowering the closet to traveling position. For all other models with closets, swing the closet upright and extend support leg under closet just like table leg.

PUMP TYPE EXCEPT EXECUTIVE

Fill the tank through the cup shaped receptacle on the exterior of the trailer. Water in the tank is pumped into the sink with an up and down stroke of the faucet handle. The tank may be drained by removing a pipe cap on the underside of the trailer coming through the floor under the tank.

CITY WATER HOOK-UP -All Models Except Executive

Pressurized water is supplied to the combination faucet by means of a water hose (not furnished) connected to the hose connection on the enterior of the trailer.

Attaching a city water hose to the Executive provides a constant flow of water through the regular pressure water system.

PRESSURE WATER SYSTEM - Executive

This system is filled by either attaching a city water hose or pouring water into the opening exposed by removing the cap and gauge assembly.

If city pressure water is not used, air pressure is added to the tank by means of a pressure valve on the exterior near the gauge, or by pumping the hand pump and gauge on the interior. The system may be pressurized through the exterior valve at a service station or by means of a portable electric air pump. Normal pressure in the system should not exceed 65 p.s.i.

WATER HEATER - Executive

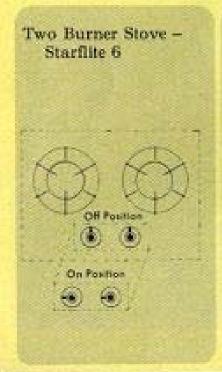
Follow the manufacturers instructions for lighting the pilot and adjusting the water temperature. These are printed on a metal plate under the exterior metal grill. A slight odor is normal for the first few hours as the new coatings burn off in the combustion chamber.

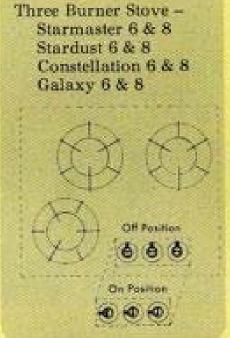
BE SURE THE PILOT LIGHT IS TURNED OFF WHILE TRAVELING AS THE WIND MAY BLOW OUT THE FLAME.

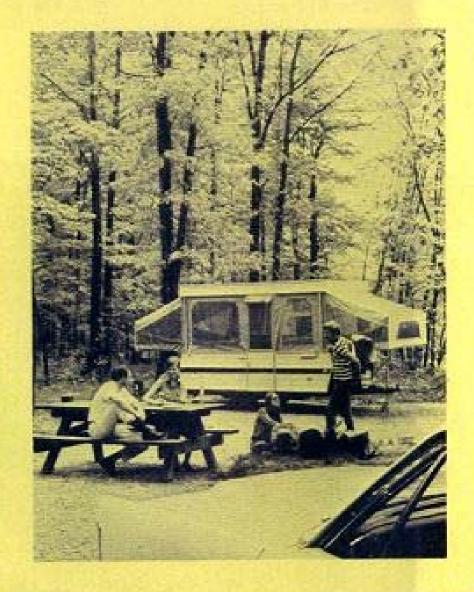
GAS STOVE

The stove grates are supplied with small metal clips to hold them in place while traveling. There is no pilot light on the stove top burners. Light burners with a match.

NOTE: BE SURE STOVE VALVES ARE IN OFF POSITION, AS SHOWN IN PICTURE BEFORE OPENING GAS BOTTLE VALVE.







HEATER

The Duo Therm heater has been engineered to do an efficient job of heating with built in safety and compact space requirements.

Lighting Instructions



 Turn to PILOT, Press dial in and light pilot. Hold for 60 seconds and release.

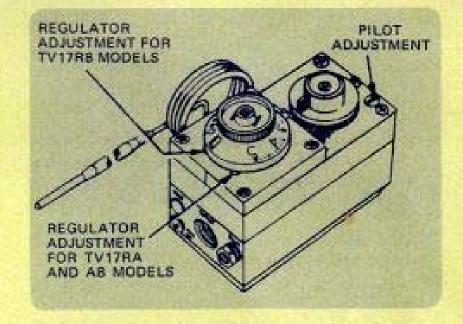


Turn dial counter-clockwise to ON. Use this position for thermostat control. Set thermostat for desired room temperature.



 Press dial in and turn clockwise to OFF. Use this position when complete shutdown is necessary. (Use PILOT position for temporary or seasonal shutdown.)

NOTE: When valve is turned OFF, dial on models equipped with Safety-Lock cannot be turned to PILOT for relighting until after three minutes. Do not attempt to force dial.



Pilot gas adjustment. Remove pilot adjustment cap screw and turn pilot adjustment screw to produce non-blowing blue flame covering top 3/4" of thermocouple tip. Replace cap screw.

Pressure regulator adjustment. To adjust regulator remove pipe plug from 3/8" NPT pressure tap near valve outlet and install pressure measuring device. Remove dial screw and lift off temperature dial to uncover regulator screw. Adjust pressure to value stamped on valve.

For further burner adjustment refer to the manufacturer's instructions included with your owner's package.

ICE BOX

The ice is placed in the top tray and a small tube drains melted ice water outside the trailer through the floor. Check this tube for kinks or obstructions if water accumulates in the tray.

GAS/ELECTRIC REFRIGERATOR - Executive

Controls for the refrigerator are under the metal grill on the exterior of the trailer. Follow the manufacturers directions for either fas ro electric operations.

Refrigerators furnished in campers are not equipped with ice cube trays.

The temperature differential on the gas/electric refrigerators is 40°. Accordingly, with an outside temperature of 80°, the refrigerator's temperature will be approximately 40°.

IF GAS COOLING IS USED BE SURE TO SHUT OFF PILOT LIGHT BEFORE TRAVELING.

BRAKES

When towing vehicle brakes are applied, momentum causes trailer and mounting plate to move forward relative to coupler about the pivot points. At the same time, plunger actuator bolt moves forward pushing plunger into master cylinder. This action causes oil flow under pressure through hydraulic brake line to individual wheels resulting in braking as required.

While the trailer braking system is completely independent and self contained from towing vehicle brake system, the amount of trailer braking is synchronized to be directly proportional to pressure applied on towing vehicle brake pedal by the driver. The shock absorber eliminates chucking under any braking or operating condition.

A breakaway chain is connected to hitch on towing vehicle. If for any reason the trailer becomes detached in transit, this chain positively pushes plunger into master cylinder thereby applying full braking pressure on trailer wheels. Breakaway lever can also be hand operated to act as a temporary parking brake, but not over extended periods of time. Do not use the parking brake when trailer is parked for winter storage. Wheel brake assemblies incorporate provisions for very minimum braking in backing up.

CAUTION:

- Before starting to tow trailer make safety brakea-way lever is in full "released" position.
- (2) Make sure break-a-way chain is correctly installed. Leave ample slack to turn corners without pulling brake-a-way lever.
- (3) Check location of break-a-way lever periodically when towing trailer. Accidental application will cause brakes to drag and heat up. Excessive heat build up will cause brakes and tires to burn.

TOILET AND HOLDING TANK - Executive

The Aqua Magic toilet is flushed with water from the pressurized fresh water system. The foot pedal actuates the valve releasing the bowl contents to the holding tank. Although not necessary, a special disinfectant can be purchased from your dealer to eliminate any possibility of odors.

The holding tank should always be emptied into either a trailer park sewage system or an approved sanitary dumping station. The tank should never be emptied beside a road, in a stream or river, or directly on the ground.

To empty the holding tank, connect a sewer hose (not furnished) to the holding tank drain and to the sewage system. Release the clips on the gate valve handle under the trailer and pull it all the way out.

After emptying the tank, flush it out by running water in the stool and quickly flushing it.

Water from your sink and shower will empty from the common drain at the left corner of the trailer, but will not enter the holding tank. It is, therefore, necessary to remove the cap on the bottom of the drain to keep water from backing up into the shower pan.

LOADING

One of the major causes of trailer damage results from overloading and/or uneven load distribution. Frame damage, spring sagging or breading, bumping, swaying and excessive or uneven tire wear can all be attributed to improper loading or overloading.

BE CERTAIN TO LOAD WITHIN THE PUB-LISHED SAFE LOAD CAPACITY LIMITS AS SHOWN ON THE SERIAL TAG OF YOUR TRAILER.

This is to include all clothing, camping equipment, food and canned goods, water supply, boat if carried, and any other supplies or gear. Your load should be distributed so that the published hitch weight remains approximately the same.

It would be a good practice to weigh your trailer before starting out for the first few camping trips. This will give you an idea of what weights you are carrying and protect against invalidating your guarantee by overloading.

STARCRAFT camper owners derive even more enjoyment from their trailers when they take part in the fun and friendship of the STARCRAFT CAMPER CLUB. National activities include Rallies, newsletters, and preview showings of new STARCRAFT products. Join in the fun! For Lifetime membership information see page 25.

SEI-UP AND IARE-DUWN INSTRUCTIONS

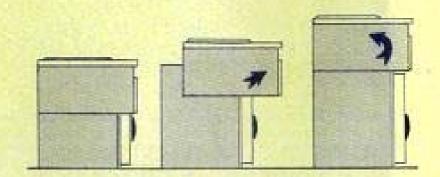
STARFLITE

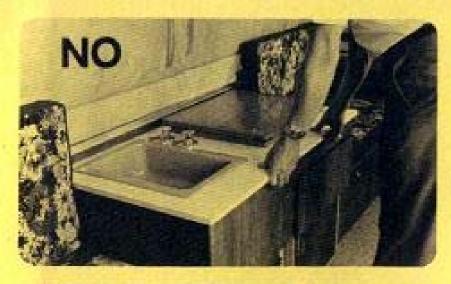
To open trailer for camping:

- IMPORTANT: Release all four corner latches before attempting to operate winch. Placing a strain on the winch while any corner latches are fastened will result in permanent damage to the lift mechanism.
- Turn winch handle to raise hardtop until the main cable stop engages.
- Lower front jack slightly below level and drop the rear jacks into down position. Raise front jack until trailer is level.
- 4. Fit each 2-piece rod together. Place the bunk bunk support rods into the sockets on the top edge of the body and into the trailer frame on the bottom. Slide the bunk out on top of support rods and place lock pins into bunk slides from inside.
- Fit the canvas end extensions over the end bunks and stretch the elastic cord over the pulleys on the bunk support rods.
- Go inside trailer and extend the bunk end support bows until the causas is taut.

- Lower the upper door frame into position above the door opening and secure it with the twist locks provided. Press the canvas sidewall flaps to the door frame.
- 8. Raise wardrobe closet and lower the support leg.
- Before raising the counter top unit to the working position, it will be necessary to release a hook lock holding unit to the sidewall. The hook is located at left rear edge of counter top unit. An additional eye is provided to secure the unit in the working position.

Stand in front of the counter unit, grasp counter top at each end (see pictures); with rotating motion, pull the counter top unit out toward you, up, and push back toward sidewall of the camper and secure with hook lock provided.







To close trailer for traveling:

 Zip up all canvas sidewalls over screening. Lower dinette into bed position. Lower counter top to traveling position.

- Detach the canvas sidewall flaps from the door frame and swing upper door into traveling position. Leave door open to allow air to flow more freely from trailer as top is being lowered. (This prevents canvas from puffing out between roof and body.)
- Detach canvas end entensions, lower end bows and remove bunk lock pins. Slide bunks in and remove bunk support rods.
- Lower front jack and raise rear jacks into traveling position.
- 5. Lower the hardtop with winch until there is 6 to 8 inches between the bottom of the hardtop and the top of the body. Go around the trailer pushing the tent in with your hands as you move along. Lower the top again until there is approximately 3 inches between the bottom of the top and the top of the body. Go around the trailer again to make sure all canvas is in.
- Lower hardtop remaining 3 inches and fasten all four corner latches.
- Turn winch to take up slack in cables. Remove winch crank handle and store in winch housing for traveling.

NOTE: If bunk support rods are stored under mattress when traveling wrap ends with suitable material so sharp edges will not cut mattress cover.

STARMASTER-STARDUST-GALAXY TRAILERS

To open trailer for camping:

- IMPORTANT: Release all four corner latches before attempting to operate winch. Placing a strain on the winch while any corner latches are fastened will result in permanent damage to the lift mechanism.
- Turn winch handle to raise hardtop until the main cable stop engages.
- Drop the rear jacks into down position. Use the jack lever and front jack adjustment to bring trailer into level position. (Repeat the process at the front leveling jacks for the Galaxy models.)
- Slide the end bunks out (except on Galaxy 4), and place the four bunk support rods into the sockets provided on the underside of the bunks and on the trailer frame.
- Fit the canvas end extensions over the end bun, and stretch the elastic cord over the pulle provided under the bunks.
- Go inside trailer and extend the bunk end canvas support bow out until the canvas is taut.
- Lower the upper door frame into position above the door opening and secure it with the twist locks provided. Press the canvas sidewall flaps to the door frame.

- On models so equipped, raise wardrobe closet to position and lock support leg into place.
- 9. Before raising the countertop to the working position, it will be necessary to release a hook lock holding the upper unit to the lower unit. The hook is located in the center of the upper unit. Lifting the ice box access panel will expose hook lock.

An additional eye is provided to secure the unit in the working position.

Stand in front of the counter unit, grasp counter top at each end (see pictures); with rotating motion, pull the counter top unit out toward you, up, and push back toward sidewall of the camper and secure with hook lock provided.

To close trailer for traveling:

- 1. Zip up all canvas sidewalls over screening.
- 2. Detach the canvas sidewall flaps from the door frame and swing upper door into traveling position. Leave body entrance door open to allow air to flow more freely from the trailer as top is being lowered. (This prevents canvas from puffing out between roof and body.) Models so equipped, lower wardrobe closet to traveling position. Lower counter top unit to traveling position on Starmaster and Stardust models.

- (All) Remove bunk support rods, detach canvas extensions, lower end bows and slide bunks in slowly to avoid snagging the canvas.
- Raise rear jacks into traveling position. (Also raise front leveling jacks on Galaxy models.)
- 5. Lower the hardtop with winch until there is 6 to 8 inches between the bottom of the hardtop and the top of the body. Go around the trailer pushing the tent in with your hands as you move along. Lower the top again until there is approximately 3 inches between the bottom of the top and the top of the body. Go around the trailer again to make sure all canvas is in.
- Lower hardtop remaining 3 inches and fasten all four corner latches.
- Turn winch to take up slack in cables. Remove winch handle and store in winch housing for traveling.

NOTE: If bunk support rods are stored under mattress when traveling, wrap ends with suitable material so sharp edges will not cut mattress cover.

CONSTELLATION AND EXECUTIVE

To open trailer for camping:

- IMPORTANT: Release all four corner latches before attempting to operate winch. Placing a strain on the winch while any corner latches are fastened will result in permanent damage to the lift mechanism.
- Turn winch handle to raise hardtop until the main cable stop engages.
- Lower jacks into down position. Use jack lever to adjust trailer into level position. Place the four bunk support rods into the sockets provided on the under side of the bunks and on the trailer frame.
- 4. Slide the end bunks completely out.
- Unfold the canvas from top of end bunk roof. Lift roofs up on outer ends until the roof braces hold the roof in a raised position.
- Go inside trailer. Lift each end roof and hook into place on inside ends of main roof.
- Attach all the canvas inside the telescoping posts by zipping them together and fastening the flaps over the corners at the roof.

- Place the upper door frame into position above the door opening and secure it with the twist locks provided. Press the canvas sidewall flaps to the door frame.
- Fit the canvas end extensions over the end bunks, then stretch the elastic cord over the pulleys provided under the bunks.
- 10. Models so equipped, raise wardrobe closet to upright position, and lock support leg in place. (Constellation only) Before raising the counter top to the working position, it will be necessary to release a hook lock holding the upper unit to the lower unit. The hook is located in center of upper unit. Lifting the ice box access panel will expose hook lock.

An additional eye is provided to secure the unit in the working position.

Stand in front of the counter unit, grasp counter top at each end (see pictures); with rotating motion, pull the counter top unit out toward you, up, and push back toward sidewall of the camper. Secure with hook lock provided.

 (Executive only) Raise shower curtain and rod and attach to roof with fasteners provided.

To close for traveling:

- 1. Zip up all canvas sidewalls over screening.
- Unzip the canvas from the telescoping posts and unfasten the top corner flaps. Detach the canvas sidewall flaps from the door frame and swing the upper door into traveling position. Leave body

- entrance door open to allow air to flow more freely from the trailer as top is being lowered. (This prevents canvas from puffing out between roof and body.)
- Unsnap shock cords from beneath beds. Fold canvas on top of end bunk roof. Unhook and push each end roof out and down on top of bunk. Fold the end part of the tent over the end of the bunk roof and next fold the sides over the bunk roof.
- Models' so equipped, lower wardrobe closet to traveling position. Lower counter top unit to traveling position (Constellations only).
- 5. Raise jacks into traveling position.
- 6. Remove bunk supports and slide end bunks in slowly to avoid snagging canvas. Lower the hardtop and the top of the body. Go around the trailer pushing the tent as you move along. Lower the hardtop again until there is approximately 3 inches between the bottom of the hardtop and the top of the body. Go around the trailer again to make sure all canvas is in.
- Lower hardtop remaining 3 inches and fasten all four corner latches.
- Turn winch to take up slack in cables. Remove winch handle and store in winch housing for traveling.
- NOTE: If bunk support rods are stored under mattress when traveling, wrap ends with suitable material so sharp edges will not cut mattress cover.



RUNNING GEAR

It is VERY IMPORTANT that the following items be checked by the dealer when a unit is new and by the owner after driving 200 miles:

- Tires inflated to recommended pressure as marked on tire.
- 2. Wheel lugs securely tightened.
- 3. Wheel bearings properly lubricated.
- 4. U-bolt nuts securely tightened.

For safe trailering re-check these items every 1000 miles or twice a season.

Tires may be easily changed by (1) lowering the front jack as far as possible, (2) extending both rear jacks as far as possible, (3) cranking the front jack up until the wheels leave the ground. A bumper jack is not recommended because of the possibility of damage to the trailer side panels.

Wheels and tires should be checked often for wear, bearing lubrication, tire pressure and general condition. Under inflated tires can cause a tendency to sway, shorten the life of the tread and decrease the load limit. Over inflation can create a bouncy, rough ride exposing the contents of the trailer to breakage and increase the hazard of blowouts.

WINCH

The winch has been fully lubricated at the factory but for continued maximum performance and increased life, occasional additional greasing of gears and hub shaft and a drop of oil on drive shaft bearing is recommended.

Wheel bearings should be checked often for lubrication and, if needed, a good grade of wheel bearing grease should be used for the packing of these bearings. Check your rims and hubs for road damage as a bent or damaged wheel will create an uneven tire rotation and could bring about the loss of a wheel or trailer damage. Tighten the lugs periodically.

TELESCOPING LIFTER SYSTEM (U.S. Patent No. 3314715)

The telescoping lifter cables and pulleys should be lubricated in the fall and in the spring. A good grade, light, oil will provide the best possible working system. Be sure to lubricate the pulleys on the under side of the trailer also. The stainless steel lifters should be sprayed with a silicone lubricant spray to free any friction that may exist. Oil or graphite lubricants may mark the canvas and are not recommended. Lifter adjustment can be made by tightening or loosening each cable on the under side of the trailer at the yoke. For each 1 inch the bolt is changed underneath, the lifter will move 2 inches. All four corners can be adjusted simultaneously by turning the main winch cable eye bolt locking nut.

The proper lifter adjustment should be approximately 42 inches between the bottom of the hardtop and the top of the body.

CANVAS

Canvas is porous to allow moisture to evaporate and prevent dampness and mildew from accumulating inside your camper. The sewn seams may leak through the needle holes until the thread has been wetted a few times and expands to seal the seams. A piece of wax (candle) may be used to seal a seam as well as to lubricate and waterproof a zipper. Setting up your trailer and pre-wetting with a hose will condition your canvas for future foul weather use while camping.

The cleaning of your canvas is very important as many substances (such as tree sap, bird droppings, etc.) coming in direct contact with your tent can destroy the water repellency of the material and could even cause rotting or decay of the tent. We recommend using warm, mild soapy water, applied with a sponge or a soft bristle brush. Rinse thoroughly with cool water and allow to dry completely.

If you find that removing the foreign substances has caused the tent to lose its water repellency, apply a light coat of water repelling solution (available locally or from STARCRAFT dealers.) The canvas must be dry before applying. After applying the solution on the canvas and before it drys, brush lightly the entire tent area. This brushing will spread the solution over the entire surface and help it work into the canvas.

The white vinyl ends of the tent can be cleaned in the same manner as the canvas, if necessary automobile convertible-top cleaners can be used to remove stains.

Follow manufacturers instructions for use of such cleaners. The seams on the vinyl ends can be sealed with Calabana sealer (available from STARCRAFT dealers), if any leaking occurs in this area.

Prolonged use of cooking stove for heating of the trailer can cause moisture to form on inside of the vinyl tent ends. It is not recommended to use stove for over-night heating.

At times, the moisture in the trailer will manifest itself as droplets of water collecting on the underside of the bunk end canvas. This is the result of a drop in temperature of the outside air which causes condensation of the moisture in the trailer.

If it becomes necessary to eliminate this moisture, a mini roof vent should be installed. This vent will allow an updraft of air across the dampened canvas and aid greatly in the removal of the moisture ladened air.

This mini roof vent is available from your Starcraft dealer.

STAINED WOOD SURFACES

Seat storage compartment lids and any other stained wood trim may be lightly sanded and restained as necessary. This maintenance will keep the wood looking new and eliminate the necessity of any major refinishing for several years.

PREFINISHED WOOD SURFACES

The storage compartments, side and end wall, console cabinet and other prefinished wood areas can be cleaned with a good household furniture wax, cleaner or polish. Scuffs and scratches that occur may be covered with a matching putty stick or hidden by use of a combination wax and stain. Water should not be used.

ABS PLASTIC

Normal maintenance requires only occasional rinsing with clear water to remove surface dirt. To remove grease, oil, or stubborn dirt, use a mild liquid cleaner. DO NOT use harsh detergents or lacquer thinner.

PAINTED ALUMINUM SURFACES

The surface can be cleaned with mild soap and water and then rinsed thoroughly. Be sure to avoid use of any abrasive material on the surface as this would damage the finish. A good nonabrasive liquid or paste wax will help preserve the finish. Do not wash or wax while the exterior is hot from the sun.

CUSHION COVERS

The cushion covers in all models are made of high quality fabrics, which are backed with latex for stability.

If cleaning becomes necessary, use a foam type upholstery cleaner, and do not remove covers from cushions.

DO NOT WASH BY HAND OR MACHINE, OR DRY

UPHOLSTERY

Materials for all upholstery used in STARCRAFT campers are of excellent quality, colorfast, preshrunk fabric and require very little care. The covers can be removed from all cushions and are hand-washable using a mild detergent.

FLOOR COVERING

The vinyl floor covering should be cleaned with clear water and a mild detergent, if needed, to lift stubborn stains. An occasional waxing will prolong the beauty of the floor covering.

In most cases, normal home cleaning methods will apply to the cleaning of the entire camper interior. Avoid using harsh chemical cleaners or cleaning fluids.

ICE BOX

You should oil your latch every spring and fall to keep it working smoothly. To clean the inside of the ice box, use a mild liquid cleaner and water. During the winter the ice box door should remain open.

GAS/ELECTRIC REFRIGERATORS

There is very little maintenance for the refrigerator. If the refrigerator does not function properly the problem is probably minor. Most cooling problems can be corrected by leveling the refrigerator or by making a small adjustment.

The following are considered to be part of the normal appliance maintenance:

Adjustment of burner

Adjustment of thermocouple

Cleaning of burner jet

Cleaning of by-pass screw

Cleaning of check ball seat in thermostat

Adjustment of gas pressure

NOTE: Manufacturers instructions and maintenance sheet is included with refrigerator.

HOLDING TANK

The Slid-Ez Valve requires no lubrication and is self-cleaning.

To winterize it, thoroughly drain the holding tank and leave the valve closed.

TOILET

Very little routine maintenance of the Aqua Magic toilet is required. It requires no lubrication.

Ordinary household cleaners may be used for routine cleaning. Ordinary toilet bowl cleaners may be used; however, they should be flushed on through the system within a reasonable period of time.

The check valve is located inside the china, attached directly to the water control valve. This valve has no screen and should never need any service or maintenance.

To winterize the toilet, open all winter drain spigots in the incoming water lines, separate the check valve, and hold the foot pedal down allowing the system to drain as much as possible. If for some reason the system is not drained, freezing will do no damage. However, it is best to drain the system.

BRAKES

The Atwood 7" and 10" brakes use a star wheel type of adjustment similar to most automotive type brakes. Where it is necessary to make an adjustment on a trailer, it is recommended that the 7" and 10" brakes be moved out until it is not possible to turn the wheel. It is then recommended that the star adjustment be turned back 10 notches, which should give satisfactory operating conditions of these brakes.

After adjustment is made, wheels should rotate freely on axle.

GAS RANGE

Regular cleaning with warm detergent solution and a soft cloth is all that is necessary to keep your range in new looking and sparkling condition. This should be done as soon as the range cools.

Grease spatters and dirts that are allowed to become hard will eventually bake on and become very difficult to remove.

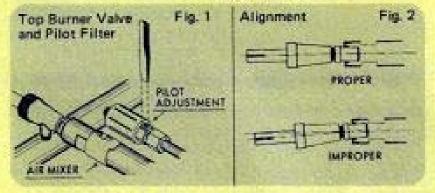
Burner caps may be cleaned by removing them from the burner heads and washing them along with the dishes. Be sure they are clean and dry before replacing them on the heads.

If any parts are stopped up, clean with a tooth pick. Do not use metal instruments as they may distort or enlarge the ports. Windows can be cleaned the same way as any other window.

CAUTION: Never use steel wool to clean burner caps or brighten chrome trim as it will dull the finish. Do not use a wet or damp cloth to clean the porcleain surface while it is still hot. It is glass fused onto steel and may craze. While cleaning oven be careful to avoid bending the tube clipping to the rear lining below the vent opening. This is the thermal sensing element and distortion could cause a variation between oven temperature and the dial setting.

TROUBLES AND REMEDIES

Yellow tips on burner flames: This is due to improper mixture of air and gas. To correct, open the air mixer. Orifice hoods out of alignment as shown on Diagram 2.



Flames blowing off of ports: This indicates too much pressure in gas line, or air mixer opened too much, or some of each. Close air shutters slightly. If this does not correct the condition have your gas regulator checked for too much pressure.

Flames flashing back in mix tube: This condition is caused usually by too lean a mixture of air and gas. Reducing air opening should correct this fault.

(continued on next page)

Burners fail to light:

Close air mixer slightly or raise pilot flame some, but not enough to cause sooting. Where trailer is used extensively, all tubing fittings should be checked occasionally for possible leaks due to vibration.

Orange colored flames:

This is almost always caused by fine particles of dust that are drawn into the air opening and usually will burn out in a very short while.

SPECIAL TOOL REQUIREMENT

Before removing any part or parts of your trailer, due caution should be exercised in the selection of tools. You will note that screw heads throughout the trailer are not the familiar standard or Phillips head type. The screw fasteners used by STARGRAFT are designed for efficient use with impact or power driven tools. Should you need to remove any trailer part fastened with this sype of screw, you should always use a Cluth Head Screwdriver which is available through your STARCRAFT dealer or most automotive parts supply stores.

STORAGE PROCEDURE

Thoroughly cleaning your Camper inside and out before storing will save much time and work when making your camper ready for the next year's camping trips. The water should be completely drained from the water tank lines and pump. The trailer should be jacked to free the wheels from a long period of pressure on one spot on the tires and bearings. The wheels should be removed and the bearings repacked for winter storage. It has been made possible to remove all the canvas in most models so it can be stored inside under heated conditions.

If a trailer is covered, adequate ventilation should be provided to assure evaporation of any condensed moisture.

All cushions, mattresses and other removable items should be stored inside for best results to insure longer life.

Complete lubrication of the winch and lifter system as described previously should be completed before a long period of storage to prevent rust or corrosion from freezing moving parts.

HERE

CAMPER CLUB

You are now the proud owner of a STARCRAFT Camping Trailer but probably want to know where you can go to meet other proud owners.

The STARCRAFT Comper Club was organized for you.

Through the club's State Chapters; many Camp-outs, State Park caravans, or just week-end get togethers, are organized.

Through the Camper Club National Organization, a nation-wide roundup is planned during prime vacation time.

The Third Annual STARCRAFT Camper Club Rally was held July, 1969 at Paradise Beach near Flint, Michigan with 325 units from 18 states and two Canadian provinces attending.

The 1970 Annual Rally preparations are nearly completed as this manual went to press. We expect 700 happy STARCRAFT owners and their families. In November, the Camper Club is going to rally at Lucas Triple L Park in Arlington, Texas over the Thanksgiving Day week-end. Plan to be with us.

At these STARCRAFT Camper Club activities you can learn about your Recreational Vehicle with experienced experts — other STARCRAFT R. V. owners.

There are presently more than 6,000 STARCRAFT R. V. units in the club and 100's more are joining every month.

So enjoy camping fun and companionship to its fullest. Join the STARCRAFT Camper Club.

For more information or membership in the club, fill out and mail the STARCRAFT Camper Club Application enclosed in your Owner's Packet.



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During the Norranty period STARCRAFT will repair any defect in the arrichard of the product of the Repairs can be made at any one of our tranchised servicing content to Alexander and the State of the

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