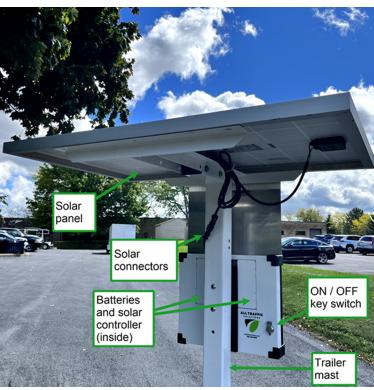
ATS 3 Trailer with Integrated Solar Setup Guide



3

Thank you for purchasing an ATS 3 Trailer with the Integrated Solar Option and the Single-Arm Solar Panel Mounting Bracket. This guide will show you how to set up and install your new trailer and sign. The Integrated Solar Option, which is powered by solar technologies and one or more lithium batteries, is available for SpeedAlert 18 Radar Message Signs, InstAlert 18 Variable Message Signs, and Shield 12 or Shield 15 Radar Speed Signs. The ATS Trailer is compact and has a low tongue weight, making one-person deployment very manageable.





Solar

[Figure 1] ATS 3 Trailer and SA 18 with Integrated [Figure 2] Integrated Solar components (trailer mounted)

Before you begin

If you have a Trafficloud Web subscription, the first thing you'll need to do to get started using your signs with TraffiCloud is to create at least one Site for each sign in advance from your office. With TraffiCloud, you configure a Site for everything from speed to messaging (if equipped), reports, alerts, and more. Sites are the key to generating traffic reports, because TraffiCloud organizes traffic data for reports by Site. If necessary, you can also perform these steps after you install a sign at a physical location. See "Creating a Site" in the Getting Started with Trafficloud Guide for your sign.

If you don't have a Web subscription, you can set up the sign in advance or while you're on location, using the onboard sign buttons. You can also set up a Site with TraffiCloud Sign Manager for Windows, over a USB or Bluetooth connection (pairing code "ATS"), and perform basic sign setup with the TraffiCloud Mobile app for Android over Bluetooth. See Step 3: Configure the sign locally on page 10.

The Integrated Solar Option

As shown in [Figure 2] above, all of the components of the solar charging system, with the exception of the solar panel, have been incorporated inside the sign, for a convenient and compact design.

The solar controller and batteries are installed securely inside the battery compartments of the sign. The solar controller receives power from the solar panel and conditions it for charging the batteries. The integrated solar option Safe Trailering Guidelines Page 2

has been designed for use with lithium batteries only and sized appropriately for use with the solar panel provided with your sign.

Under normal use, the sign's batteries should be fully maintained by the solar panel. However, if the batteries do become depleted, turn the sign off and leave it in full sun until it's recharged. Otherwise, you'll need to use the external AC charger to recharge the batteries more quickly. See *Step 5: If you need to recharge the sign* on page 12.

In the Integrated Solar Option, typically two batteries are connected directly together, forming the equivalent of a single large, balanced battery. In the case of the Shield 12, only one battery is included, and the other compartment is used for the solar controller.

Check over the trailer

Upon receiving a new ATS 3 trailer, check to ensure that you have all of the items ordered. If you notice any damage or missing items, contact ATS Technical Customer Support immediately.

What you'll need What's included The ATS 3 trailer, includes the following: A vehicle equipped with a trailer hitch for The mast and solar panel, including the joint bolt and shear nut, with washer towing. See *Safe* and lock washer, and a bottle of Vibra-Tite threadlocker, Trailering Guidelines An ATS SpeedAlert 18 Radar Message Sign, InstAlert 18 Variable Message Sign, or below. Shield 12 or Shield 15 Radar Speed Sign (sold separately). A 15/16" (24 mm) An axle lock bar (padlock not included), wrench, This setup guide. All setup and quick start guides are also posted to the ATS A 1-1/8" (29 mm) Technical Customer Support page and if you have a TraffiCloud subscription, you wrench, can access additional guides on the ATS Start-Up page or from the TraffiCloud A partner for trailer Help menu. hookup and to unfold For complete details, consult the latest specification. the mast.

Viewing this document online



Safe Trailering Guidelines

IMPORTANT: Carefully read and follow all instructions marked with warnings and read and follow all of the instructions in your quick start guide *BEFORE* you take your trailer on the road.

Warning symbols



Warning: Warning symbols draw your attention to serious safety hazards, which can lead to injury, death, or damage to equipment.

Swaying



WARNING: Swaying is a moderate back and forth movement of a trailer behind a tow vehicle and can lead to dangerous whipping unless you slow down.

Whipping



WARNING: Whipping is the violent back and forth movement of a trailer behind a tow vehicle. Whipping can be caused by excessive speed for the driving conditions, turbulence, over-steering, passing vehicles, uneven roadways, or other issues. There is very little time to recover should whipping occur.

Page 3 Towing checklist

Combination disturbance



WARNING: A combination disturbance is swaying or whipping of a trailer AND the tow vehicle (the combination), caused by issues such as excessive speed for the driving conditions or load, turbulence, over-steering, passing vehicles, uneven roadways, or other issues. See *Combination disturbance* above.

Flat tire



WARNING: In the event of a flat tire, DO NOT BRAKE. Take your foot off the gas pedal, slow down below 25 mph (40 kph), and drive to a safe location, where you can stop and change the tire. If necessary, you may need to drive on the flat until you can stop safely.

Wheel off the roadway



WARNING: If a wheel goes off the roadway, DO NOT BRAKE. Take your foot off the gas pedal, turn on your hazard lights, and slow down below 25 mph (40 kph). Then slowly steer back onto the roadway when it's safe to do so.

Towing checklist

Go over the following checklist before you go on the road:

Checklist item	What to do
Your tow vehicle	 Ensure the following: the tow vehicle is equipped with a suitable trailer hitch and the vehicle is properly maintained. Consult your vehicle manufacturer, an authorized repair facility, or hitch installation company. The vehicle has adequate towing capacity for the trailer, with a load capacity of up to 1,000 lbs (454 kg). Consult the vehicle owner's manual about vehicle capacity and towing instructions particular to the vehicle. Any modifications to the vehicle are approved for towing by an authorized dealer or inspector.
Trailer hitch	Ensure that the trailer hitch and ball are securely installed and suited to the tow vehicle. Ensure that the coupler and ball are fastened together securely.
Safety chains	 Ensure that the safety chains are crossed over under the tongue and hitch, securely hooked to the tow vehicle, and not dragging on the pavement. See Lower the trailer onto the hitch on page 8.
	Warning: Pay close attention to safety chain hookup and do not tow the trailer without the safety chains attached. If the trailer tongue becomes detached from the hitch ball while you are driving, properly attached safety chains can prevent a serious accident by supporting the tongue and keeping the trailer attached to your vehicle temporarily until you can come to an emergency stop.
Electrical harnesses	Ensure that the electrical harnesses are properly connected and the signal, tail, and brake lights are working.
Tires	Ensure that all tires on the tow vehicle and trailer are properly inflated. Consult the information on the tire sidewalls and your vehicle's door decal for inflation pressures.

Safe Trailering Guidelines Page 4

Checklist item	What to do
Sign	Ensure that the mast, sign, and solar panel assembly are in the travel position, parallel to the road. See <i>Rotate the sign</i> on page 7.
Loading	Never load cargo on the bed of the trailer.

Safe driving practices

Use the following checklist for safe driving practices with a trailer:

Condition	Best practice
Speed	Slow down to avoid accidents and drive defensively. Drive slower than you would without a trailer. The maximum recommended speed with a trailer is 55 mph (90 kph).
	Anticipate slowdowns in traffic and stops and apply your brakes well in advance. Slow down for curves, road hazards, roadwork, and difficult weather conditions.
	Don't assume you can speed with the trailer. Driving at high speeds can result in sway and whipping if hazards are present.
	Your towing vehicle and trailer combination has much higher mass and length than your vehicle by itself. Allow extra distance between your vehicle and vehicles ahead and allow extra distance for braking.
Assisted driving	Avoid using cruise control, overdrive, and other assisted driving technologies while towing a trailer.
What to avoid	Never drink or consume drugs and drive. Never text and drive or allow mobile devices to become distractions while you are driving. Pull over or wait for stops as needed to use them.
Passing and turning	Remember, your car and trailer combination is longer than your vehicle alone. Allow adequate extra space when passing vehicles or making sharp turns, such as in parking lots or gas stations. Be vigilant when passing or being passed by other vehicles. Passing vehicles can cause turbulence leading to a combination disturbance.
For longer trips	Inspect the vehicle and trailer connections at each stop.
Difficult weather conditions	In difficult weather conditions, adjust your driving for the conditions, allowing additional time and space between vehicles.
Backing up	If you need to back the trailer into position, practice beforehand, and have a partner assist you. Backing up with a trailer is a skill that can take time to learn. See <i>Tow the trailer to your location</i> on page 9.

Step 1: First-time setup (if necessary)

Use the steps in this section for first-time setup if the trailer has been shipped to you. If the trailer has been delivered by an ATS representative, the mast should already be set upright, and you can skip to *Step 2: Deploy the trailer and message or speed sign* on page 7.





[Figure 3] Trailer folded view

[Figure 4] Unfolding the trailer mast

Unfold the mast

A. Deploy all three jacks into position, supporting the trailer. The back jacks have spring-loaded latch pins that you pull to release from the stowed position, and then rotate into the vertical position. All of the jacks spin up and down with hand cranks.



WARNING: RISK OF CAPSIZING Before you unfold the mast, stabilize the trailer by rotating the jacks to vertical and lowering them to the ground. Correct deployment of the jacks prevents the trailer from flipping backwards, which could cause injury to personnel or damage to equipment.

- B. Unfold the mast into the upright position, as shown in [Figure 4] above. Unfolding the mast is best done with a partner.
- C. Insert the bolt (shown in [Figure 5] below) into the cylinder on the mast joint to hold the mast upright. Once unfolded and assembled, the hinge will be locked in that position. See [Figure 8] on the next page.





[Figure 5] Breakaway nut and bolt set

[Figure 6] Vibra-Tite threadlocker



Warning: Vibra-Tite threadlocker contains ethyl 2-cyanoacrylate, ethylene di(acetate), and Methoxy Polyethylene Glycol 1000 Methacrylate, which pose slight to moderate risks to health or can cause fire. Wear appropriate safety gear and avoid contact with the skin and eyes, inhalation, or exposure to open flames or sparks (no smoking). Dispose of the contents and container in accordance with local regulations. For details, see the Vibra-Tite Website.

D. Put the large washer and then the lock washer (shown above) on the end of the bolt.

- E. Apply a few drops of the supplied Vibra-Tite threadlocker (shown in [Figure 6] on the previous page) to the bolt where the breakaway nut will be tightened on. At 72 degrees F (22 C), initial curing time is 10-20 minutes and full curing time is 24 hours.
- F. Tighten the 5/8" (16mm) breakaway nut onto the bolt using a 15/16" (24 mm) bolt wrench until the nut shears off.



WARNING: Do not remove the nuts and bolts in the hinge after assembly. Doing so will void the warranty.







[Figure 7] Mast joint, unfolded

[Figure 8] Mast joint, folded

[Figure 9] Speed limit sign

Install the static speed limit sign (if applicable)

If you have the optional static speed limit sign, use the supplied nuts and bolts to install it on the mast below the digital speed sign. Set the speed limit using the inter-changeable digits. The digits range from 5 through 65 for customers in the United States.



[Figure 10] Installing the static speed limit sign

Step 2: Deploy the trailer and message or speed sign



WARNING: RISK OF INJURY OR ACCIDENT Before you transport the trailer and sign after erecting the mast, rotate the mast and sign into the "travel position", parallel to the direction of travel to avoid the risk of accident and injury due to wind drag, whipping, or vehicle-trailer combination disturbance. See *To rotate the sign:* below.



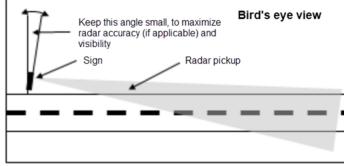
WARNING: RISK OF INJURY OR VEHICULAR DAMAGE Follow these instructions carefully, and always ensure correct and safe trailer hookup and driving with your trailer. See Safe Trailering Guidelines.

Rotate the sign

You'll need to rotate the sign in either of two circumstances:

- To place the mast and sign assembly in the travel position (see [Figure 11] below), so that you can transport it safely between locations after the mast and sign have been raised.
- To angle the trailer correctly toward the traffic lane (see [Figure 12] below). In the case of hills, you can also use the jacks to angle the sign up or down slightly.



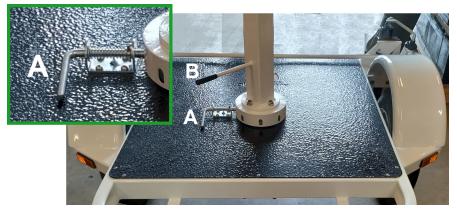


[Figure 11] Travel position

[Figure 12] Setting the sign angle

To rotate the sign:

- A. Pull the spring-loaded latch pin (A) to unlock the mast base.
- B. Keeping the latch pin retracted, grasp the mast rotation handle (B) and rotate the mast and sign as required. Do either of the following:
 - Rotate the sign for transport: To reduce wind resistance, rotate the mast, sign, and solar panel assembly sideways, into travel position, parallel to the roadway (see [Figure 11] above). The holes around the mast base are 30 degrees apart.



- **Rotate the sign to set the display angle**: Use the same procedure to rotate the sign for optimum display towards traffic (see [Figure 12] above).
- C. Release the latch pin into the new hole to lock the mast in position.

Move the trailer and vehicle into position for hookup:

- A. Move the trailer into position on a flat surface so that you can back your vehicle up to it. Using leverage, the trailer is easy to move around by hand on flat surfaces.
- B. Lower the front jack (A), as shown at right. Crank the handle to lift the trailer until the coupler (B) is above the height of the hitch ball (C).
- C. Back the vehicle up to the trailer so that the hitch ball (C) is just in front of the coupler (B). Have a partner guide you or use a backup camera if it provides a clear view. When your vehicle is in position, turn off the engine.

Lower the trailer onto the hitch

- A. Pull the lynch pins and spin the front jack (A) down to lower the coupler (B) onto the hitch ball, as shown in this section.
- B. Close the tongue latch (D) over the ball.
- C. **Important**: Ensure that the ball clamp (E) is securely wrapped around the ball. If necessary, release the tongue latch and reposition the tongue on the hitch ball, or adjust the ball clamp with a wrench.
- D. Optionally, lock the latch with a padlock (not included).
- E. Crank the jack (A) back up all the way, and secure it in place.
- F. Attach the trailer safety chains (F) to the hitch frame, crossing them under the tongue, and looping the S-hooks back onto the chain. Leave enough slack in the chains to allow for cornering, but make sure they don't drag on the pavement.

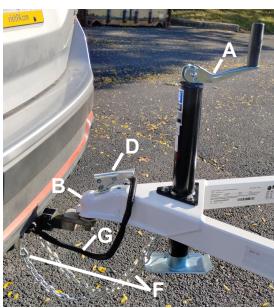


WARNING: Pay close attention to safety chain hookup and do not tow the trailer without the safety chains attached.

If the trailer tongue becomes detached from the hitch ball while you are driving, the safety chains can prevent a serious accident by supporting the tongue and keeping the trailer attached to your vehicle temporarily until you can come to an emergency stop.

- G. Connect the wiring harnesses (G).
- H. Working with a partner, check to ensure that the signal, taillights, and brake lights are functioning properly.
- I. Inspect the hitch connections to ensure that the hookup is complete, and then proceed to the next step. Once all preparations are completed, you are ready to take to the road.





Tow the trailer to your location



WARNING: RISK OF ACCIDENT, INJURY OR DEATH. Do not obstruct the roadway: Always choose a location for the trailer that is far enough away from moving vehicles so as not to interfere with or distract passing traffic. The trailer should be placed off the shoulder, ideally behind traffic cones or barriers.

- A. Tow the trailer to your chosen location, ensuring that the surface is stable.
- B. **If you need to back up**: Hold one hand on the bottom of the steering wheel, and to turn the trailer to the left, move your hand on the steering wheel to the left. To turn the trailer right, move your hand on the steering wheel to the right. If the trailer turns the wrong way, pull ahead until the vehicle and trailer are in a straight line and start again.
- C. Position the trailer off the shoulder, behind traffic cones or barriers.
- D. Once the trailer is in the desired position, you're ready to disconnect it from the tow vehicle.

Unhitch the trailer

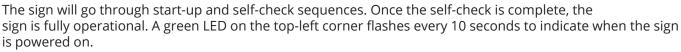
Use these instructions to unhitch the trailer, so that you can safely leave it at the roadside.

To disconnect the trailer:

- A. Disconnect the wiring harness.
- B. Disconnect the safety chains and hook them back onto the trailer.
- C. Open the tongue latch (D), as shown on the previous page.
- D. Using the front jack or by hand, lift the trailer off the hitch ball.
- E. Move the tow vehicle away from the trailer.
- F. Let the front jack back down to the desired position and fold down the handle again.

Position the trailer and turn the sign on

- A. To enhance accuracy and visibility, position the trailer so that the sign will be visible to motorists, yet the trailer is off the shoulder (see *Tow the trailer to your location* above). You can also adjust the angle of the mast and sign separately (see *Rotate the sign* on page 7).
- B. Lower all three jacks until the trailer is stable and level on the ground. You can raise the tires off the ground. Use a level if necessary.
 - i. For the jacks on the rear of the trailer, pull the spring pins to release them.
 - ii. Rotate the back jacks to vertical. You'll hear a click as they lock into place.
 - iii. For each jack, rotate the handle to lower the foot until it's supporting the trailer securely. Fold the jack handles back down for storage.
- C. Use the key switch on the back of the sign to turn it on. Lift up the cover and turn the barrel-style key to the ON position.





Step 3: Configure the sign locally

If you have a TraffiCloud subscription, you can skip this step, and instead configure the sign online, setting the sign display options and assigning a Site. It's best to perform sign setup in advance, so that your traffic data is captured in TraffiCloud immediately. See the *Getting Started with TraffiCloud* guide for your sign.

If you don't have a TraffiCloud Web subscription or the TraffiCloud Mobile app for Android (over Bluetooth), you can configure your sign using the **Speed Limit** and **Display Mode** buttons, and TraffiCloud Sign Manager for Windows, connecting over the supplied USB A-to-mini B cable or over Bluetooth. The mini-B port is located above the buttons inside the mounting channel for Shields, SpeedAlert 18s, and InstAlert 18s, and inside the back of the sign for the SpeedAlert 24s and InstAlert 24s. For Bluetooth pairing, use code "ATS".

To configure the sign locally:



- A. Set the speed limit by pressing the **Speed Limit** button until the desired value displays. The first press displays the current speed limit.
- B. Verify or set the display mode on the sign.
- C. To change the mode, press the **Display Mode** (or **Display Settings**) button until the desired mode displays on the sign. For details about display modes, see the applicable figures and table below for your sign.



Note: To reduce the risk of tampering, the buttons deactivate five minutes after you power on the sign. To reactivate them, turn the ON/OFF key switch on and off.

SpeedAlert and InstAlertDisplay Modes

As mentioned, optionally you can use the sign's onboard buttons to configure a speed limit and other display settings. Here are the available modes with the SpeedAlert and InstAlert:



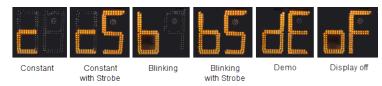
Display Mode	Description
MSG MODE	Single Message mode : Selects from the messages saved in the sign to display.
ALL MSGS	All Messages mode : Displays all of the messages saved in the sign in sequence.
DEP MSG	Dependent Messages mode : Displays a series of messages, with the content depending on how fast the approaching vehicle is traveling. Can be used as a timer, to display different messages based on the value of the internal timer. Often used for New Year's countdowns or casual race information. The timer is controlled with TraffiCloud Sign Manager.
SPEED DISP	Speed Display mode (Radar signs only) : Displays the speeds of the approaching vehicle.
DISPLAY OFF	Display Off mode : Turns off but the display but the sign is still active and gathering sign status for InstAlerts, and traffic and other data for SpeedAlerts, if subscribed. Also, referred to as "stealth mode".

Page 11 Step 4: Secure the trailer

Display Mode	Description
SP LMT SIGN	Speed Limit Sign mode: Sets the Speed Limit to display.

Shield Display Modes

Here are the sign modes available with the Shield if you use the **Display Mode** button on the sign:



Shield modes	Description
С	Constant : The Shield continuously displays vehicle speeds as each vehicle passes, changing the speed display as the vehicle speed changes. Constant is the default (recommended) setting.
cS	Constant with strobe : The same as constant, however vehicles exceeding the Speed Limit set in the sign by 1 mph (or 1 kph) trigger the Violator Alert strobe (if equipped). Trafficloud subscribers typically set the strobe option to 10-15 mph (16 to 24 kph) above the Speed Limit set in the sign.
b	Blinking : The Shield blinks slowly, displaying changing speeds as the vehicle passes. TraffiCloud subscribers typically set the blink option to 10 mph (16 kph) above the Speed Limit set in the sign.
bS	Blinking with strobe : The Shield blinks constantly, and the Violator Alert strobe (if equipped) flashes when the sign detects a vehicle exceeding the Speed Limit by 1 mph (or 1 kph). Trafficloud subscribers can set the blinking and strobe options separately, with blinking typically set at 10 mph (16 kph) above the speed limit, and the strobe at 10-15 mph (16 to 24 kph) above the Speed Limit set in the sign.
dE	Demo : The Shield displays a simulation of vehicle approach speeds, from higher to lower, temporarily ignoring actual traffic readings.
oF	Display Off : The Shield collects traffic and status data, but the display is turned off. This mode, also referred to as "stealth mode", is recommended for performing traffic studies at a Site.

Step 4: Secure the trailer

Use the axle lock bar and a padlock (not included) to prevent theft as well as rolling out of position.



[Figure 13] The axle lock bar installed

To secure the trailer:

A. Remove the axle lock bar from the back of the trailer.



[Figure 14] Axle lock bar stowed

[Figure 15] Axle padlock (not included)

- B. Thread the axle lock bar through the trailer wheels (as shown in [Figure 13] on the previous page).
- C. Thread the padlock through the holes at the end of the axle lock bar (as shown in [Figure 17] below) and lock it.





[Figure 16] The axle lock bar - T-bar end

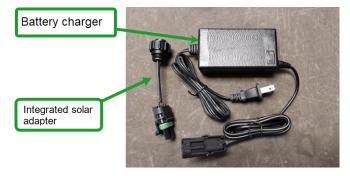
[Figure 17] The axle lock bar - locking end

Step 5: If you need to recharge the sign

Solar charging is typically strong enough to keep sign batteries adequately charged, but battery health can be compromised by lack of direct sunlight – from cloudy or hazy conditions to excessive shade, to snow, leaves, pollen, or dust buildup on the panel. To avoid the need for recharging, locate the panel where you know there will be good sunlight and keep the panel clean. If you do need to recharge the sign, use the instructions below to ensure optimum battery health, recharging, and storage.

What you'll need

You'll need the sign, included battery charger (shown below), and (for larger signs) a Torx TR-27 tamper-resistant security bit to remove the sign from the mast cross-member:



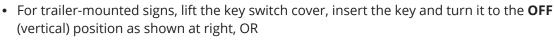
[Figure 18] Battery charger with cable and Integrated Solar adapter

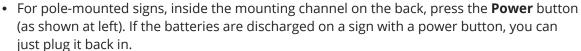
Page 13 Powering down the sign

Powering down the sign

IMPORTANT: Before recharging the batteries, turn off the sign to discharge the power circuits and to ensure that no

current is flowing during the charging process. On trailer-mounted models with the keyed ON/OFF switch, you must turn off the power circuit even if the batteries are completely discharged. Use either of the following methods, as appropriate:







Recharging the sign



Power

WARNING: RISK OF ELECTRIC SHOCK AND EQUIPMENT DAMAGE. The charger is not intended for outdoor use. Only charge the system in a sheltered environment, such as a garage.

To recharge the sign:



Note: Charge the sign for 24 hours to return the standard two-battery configuration to a 100% charge. For single-battery configurations, charge for 18 hours.

- A. If the connectors are outside the mounting channel, skip to the next step. If the solar connectors are inside the mounting channel, do any of the following as applicable:
 - If your sign is mounted on an ATS 3 trailer, use the key to unlock the sign from the mast and lift the sign down. For larger signs, to unbolt the brace attaching the sign to the mast you'll also need to use a Torx TR-27 tamper-resistant security bit.



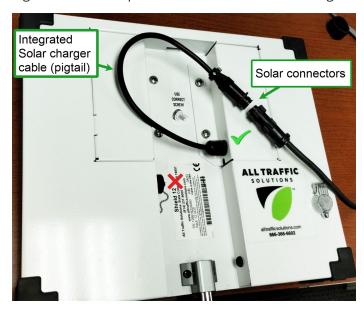
[Figure 19] Removing the mast brace (if applicable)

- If your sign is mounted on a round pole, remove the banding straps, disconnect the solar connectors, and lift down the sign.
- If your sign is mounted on a U-shaped or square Telespar-style pole, remove the carriage bolts, disconnect the solar connectors, and lift down the sign.
- B. Twist to disconnect the solar connectors. See [Figure 21] Connecting the charger and sign on the next page.
- C. Plug the two-pronged plug end of the charger cable into a standard 120-VAC electrical outlet.
- D. Connect the solar connector dongle to the charger cable, as shown here. The male and female ends will snap together.



[Figure 20] Connecting the charger cable to the solar adapter dongle

E. Twist to connect the solar connector (pigtail) on the sign to the solar connector on the charger, as shown here. **DO NOT** connect the charger to the round port on the bottom half of the sign. The sign begins charging.



[Figure 21] Connecting the charger and sign



Note: The charger may take a couple of minutes to recognize the batteries, due to the presence of the solar controller. Do not be alarmed if it does not start charging immediately.



WARNING: RISK OF FIRE. Do NOT attempt to individually charge the paired batteries included. Never mix unequally charged batteries in the same system.

F. **Charge the sign for 24 hours** to return the standard two-battery configuration to a 100% charge. For single-battery configurations, charge for 18 hours.



Note: The LED on the charger cable cannot be relied on to indicate a full charge. When the LED turns from red to green it only indicates a 50% to 85% charge level.

Powering back on and reinstalling the sign

Once the sign is recharged, you'll need to power it back on and then reinstall it. Here are the steps you'll need:

To power the sign back on:

» Use either of the following methods, as appropriate:



- For trailer-mounted signs, lift the key switch cover, insert the key and turn it to the **ON** (horizontal) position as shown at right, OR
- For pole-mounted signs, inside the mounting channel on the back, press the **Power** button (as shown at left). If the batteries are discharged on a sign with a power button, you can just plug it back in.

The sign will go through start-up and self-check sequences. Once the self-check is complete, the sign is fully operational. A green LED on the top-left corner flashes every 10 seconds to indicate when the sign is powered on.



In the unlikely event that the sign will not power back on after you've recharged it for 12 hours (single-battery configurations) or 24 hours (dual-battery configurations), please review *Recharging the sign* on the previous page. If everything looks correct and the sign still will not power back on, please see *Getting help* on the facing page.

Page 15 Storing the sign

To reinstall the sign:

- A. Do any of the following, making sure the aiming of the sign is suited to your roadside placement:
 - If your sign is mounted on an ATS 3 trailer, place the sign back on the trailer mast and use the key to close the lock and secure the sign in place. For larger signs, bolt the brace back on the sign and mast using a Torx TR-27 tamper-resistant security bit, OR
 - If your sign is mounted on a round pole, resecure the banding straps around the pole.
 - If your sign is mounted on a U-shaped or square Telespar-style pole, reinstall the carriage bolts.
- B. Twist to reconnect the solar connectors.

Storing the sign

• If you'll be storing the sign for any length of time, power it down again to avoid draining the batteries prior to next use.

Getting help

We're here to help! If you have any concerns while using your new sign and trailer, please feel free to call our customer success specialists at 1-866-366-6602, option 2, or email us at support@altrafficsolutions.com.