

# ALDEN automatic satellite systems

## *Installation / Setup and Quick User Guide*



Satlight Track 60 (Portable)



Orbiter 80



AS4-85



SSC HD

# ALDEN

[info@alden.net.au](mailto:info@alden.net.au)

Alden Australia, PO Box 7520 Garbutt QLD 4814

# Warning

Alden draws your attention to the risks that may occur if the Installation / mounting is not correct.

Alden declines all responsibility if the product is not mounted in the correct way and especially if it is installed by a non professional person.

The retailer is meant to know installation rules and to apply them. He will especially respect the installation location, the cable connection, the gluing and screwing of the Alden satellite system.

By selling and installing an Alden product, the retailer is obliged to inform his customer on how the product works and perhaps how to install the product in some cases. Each product with electronic components has to be protected from under voltage (under 10.5 volts) and over voltage (over 15 volts).

It is strictly forbidden to open, interfere, repair and/or modify the product without Aldens agreement.

The warranty will become void if you undertake such an action. Unpredictable events can not lead to any exchange, refund or compensation from the salesperson nor the manufacturer. The reception areas of the satellites are given as a guidance.

Alden declines all responsibility in the event of incidents or accidents if they are due to a non observation of the installation instructions or the way the product is used. It is strictly forbidden to open a product.

The warranty will be come void if you do so. Do not use the + after ignition, which means starting the vehicle, to close the system down. Before starting the vehicle, make sure the satellite system is folded down in the folding down position. Remove the fuse from the electric circuit board of the satellite system and receiver/AIO before interfacing to the general circuit board, or changing or connecting the battery.

If the vehicle is equipped with a solar panel, also remove the fuse. If the wind gets up or by gale force, we recommend to fold the satellite system down. You must fold the satellite system down when the wind is above 50 km per hour. Never unfold the satellite system when it has snowed or by freezing rainfalls. Always make sure nothing will block the opening of the satellite system (nor ice, nor snow...).

Remove if this is the case. Always switch the receiver/AIO off before unplugging the power supply. You must ALWAYS fold the satellite system down before starting the engine of the vehicle. Go through the folding down procedure.

Before starting the engine, make sure the satellite system is completely down. . We advise to withdraw the fuse supplying the receiver in case of long periods without driving or to disconnect the power supply. If you leave the vehicle, never leave the satellite system open. For a good quality picture, do not use coax cable adaptors in circuits. Generally, it is recommended to avoid all connections. You must provide a separate power supply equipped with a 5 Amp. fuse directly from the vehicle battery or electricity circuit board to the S.S.C®/receiver/A.I.O®.

You must provide a separate power supply equipped with a 3 Amp. fuse directly from the main electric board to the S.S.C®/receiver/A.I.O® for the Plus after ignition connection (only with Alden automatic satellite systems). You must protect the ends of the motor and coax. cables with paper tape during installation (especially when threading the cables through furniture). Only connect the coax cable's when the system is not connected to the power supply: the receiver/S.S.C® must be unplugged turned off before being connected to the coax cable, If not this could cause serious damage to the LNB circuit. The warranty will become void if original or certified parts are not used.

All repairs must be made by qualified technicians. When connecting the cables, make sure the satellite system and S.S.C®/receiver/A.I.O® are not connected to the power supply. Wait a few seconds after having switched the systems off before moving them or disconnecting them. After having followed the instructions, if the system does not work, contact your dealer.

- If you accept to install the equipment, you also accept the above rules. •

## Warning before installation

Protect the 3 cables (motor, skew and coax) with rubber grommets when installing through holes, walls and cavities.

Also protect the end of each cable with papertape during installation. You MUST use the provided cables, without cutting nor modifying them.

If not, the warranty will become void. Do not use the existing coax cables in the vehicle, as the quality of the reception can be altered. Each joint or different types of cables may weaken the quality of reception signal. You must install separate cables, with a 5Amp fuse on the positive line, directly from the battery cell to the S.S.C.® Search module.

You must install separate cables, with a 3Amp fuse on the + (positive) after ignition line, directly from the ignition key (of the motorhome or tow vehicle) to the S.S.C.® Search module.

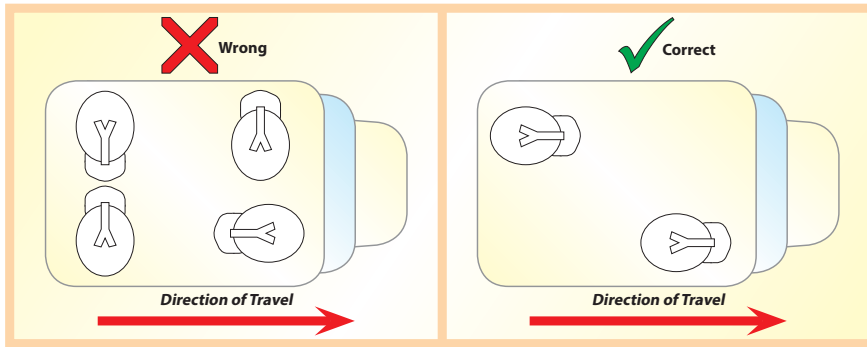
You must install separate cables, with a fuse on the positive line, directly from the battery cell to the receiver. Refer to the instructions of the receiver.

Always make sure the customer will be able to access the switch off/on the AIO®/receiver if the vehicle is not used over winter. Never use the plus after ignition on the fridge, steps or any other devices.

# Installation

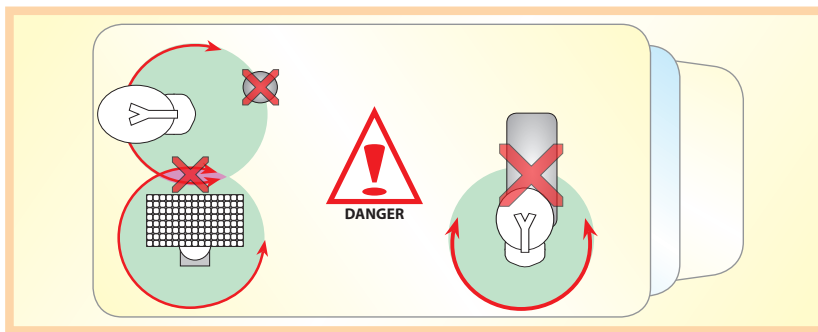
## A. Location on the roof.

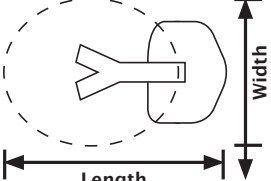
A satellite system must always be folded down towards the back of the vehicle, never to the front nor to the sides. If possible, always install the system on a smooth and flat surface and avoid curves or inclinations.



## B. Rotation area.

No obstacle must be in the surface of rotation of a satellite system or a solar panel. (Examples: roof vents, equipments...)



			length x width x height
	Orbiter	80	Platinum
AS4®	85		990 x 790 x 250 mm/12,2 kg
Satlight Track	60		650 x 600 x 220 mm/ 8 kg

## C. Controlling the rotation area (presence / absence of obstacles).

### Important : To check the rotation area, open all the roof vents.

1. Install the unit on the roof on the chosen location, the LNB has to be folded towards the back of the vehicle.
2. By using a pencil, mark the location of the unit, then remove the unit.
3. Mark the center of the drawing.
4. Cut a piece of string of 60 cm in length for Orbiter80 Or 90cm for AS4 85. Place one end at the centre of the drawing. Stretch the string of 60 cm Or 90cm and bring it round (a complete circle) making sure no obstacles are in the way when the dish will rotate.
5. If no obstacle is in the way, proceed with the glueing; if not, change the location of the satellite system and start the same procedure as in step 4.

## D. Gluing.

### IMPORTANT INFORMATION CONCERNING SIKA'S PRODUCTS :

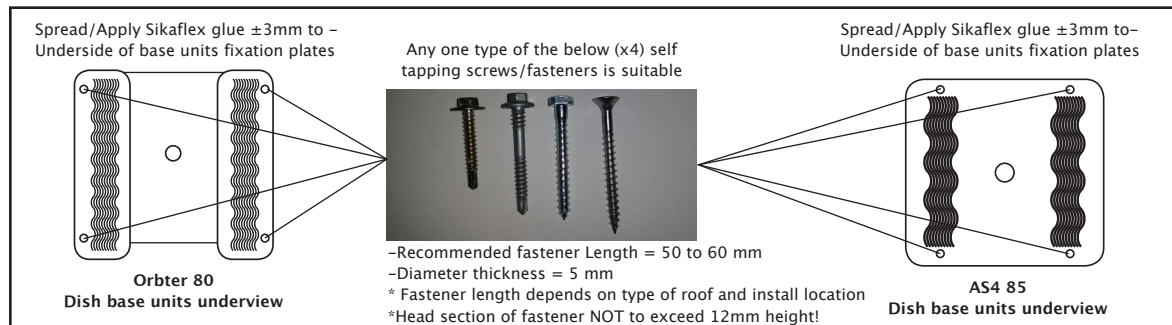
Sikaflex®-512 Caravan is a single component hybrid sealant PU based on silane-terminated polymers. It cures on exposure to atmospheric moisture to form a durable elastomer. Sikaflex®-512 Caravan is manufactured in accordance with quality assurance rules ISO 9001 and 14001 and the «Responsible Care» program.

Expiration date are indicated as following: month/year. Example : 03/09 corresponds to March of the year 2009.

Warning: May cause sensitization by inhalation. Do not breathe gas/fumes/vapour/spray. In case of accident or if you feel unwell, seek medical advice immediatly (show this document where possible).

## How to glue the outside unit:

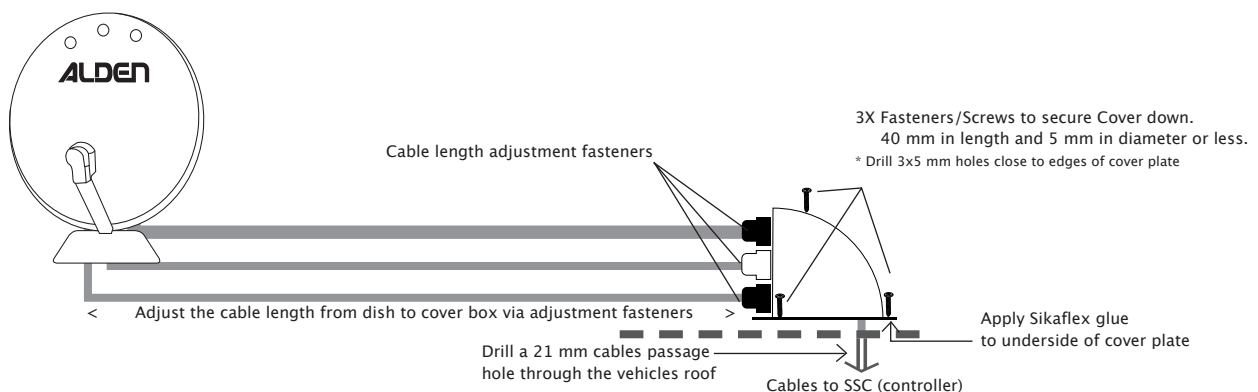
1. Mark the location of the external unit with a pencil. Now remove the external unit from the roof.
  2. Sand the surface you must glue (roof, under the two fixation plates of the external unit) with sandpaper (medium grain).
  3. Clean each surface with a thinner.
  4. Spread SikaAktivator -205 on the sanded surface. Leave to dry for 15 to 20 minutes.
  5. Glue generously the fixation plates of the external unit with Sikaflex®-512 Caravan then press slightly on the unit. Layer of glue:  $\pm 3$  mm. Leave to dry for 24 hours.
  6. Fasten the base unit to the roof via the 4 holes by using 4 X Self drilling Screws/Self tappers/bolts or coach screws etc.
- \* Fasteners to be approximately 50-60 mm in length & 5mm thickness. (Depending on Vehicle Roof material and location)  
 \* Make sure the screws/bolts heads or bolt shaft threads are No Higher than 12mm or Does Not Protrude Up more than 12mm



## How to place and glue the waterproof cable box:

1. Loosen the cable length adjustment fasteners on the cable cover box.
  2. Adjust the cable length from the dish base to the cable cover box to your preferred installation location by pulling or pushing the cables either way through the adjustment fasteners. \*After installation, cables should appear stretched / straight!
  3. When the cable length adjustment from dish to cover box has been achieved, tighten the cable adjustment fasteners (slightly tight) by using a spanner or suitable tool.
  4. Position the waterproof cable box on the roof at the appropriate place and mark the location with a pencil. Now remove the waterproof cable box.
  5. In the center of this mark, drill a hole 21 mm of the correct dimension, to enable the passage of the coax cable(s), motor cable and power cable (AS4 85 only) without having to bend them. You must be able to cover the entire hole with the waterproof cable box.
  6. Smoothen the hole to avoid damaging the cables.
  7. Thread the cables through the hole (towards the inside of the vehicle) and place the waterproof cable box on the roof making sure the cables are not stuck nor bent. Increase the size of the hole if necessary.
  8. Sand the surfaces that you have to glue (roof and under the waterproof cable box) with sandpaper (medium grade).
  9. Clean each surface with a Wax and Grease remover.
  10. Spread SikaAktivator -205 on the sanded surfaces. Leave to dry for 15 to 20 minutes.
  11. Glue generously the fastening parts of the waterproof cable box with Sikaflex®-512 Caravan then press slightly on it. Layer of glue:  $\pm 3$  mm. Leave to dry for 24 hours.
- \*It is strictly forbidden to fill the entire waterproof cable box with glue !!!  
 12. Using 3 X Self drilling / tapping fasteners secure the Roof Cap/cable cover plate to the roofs surface.  
 \*See picture below  
 \*Recommended method would be to 1st drill out 3 holes (5mm diameter) on the Cap/cover plate and then to use 3 X fasteners/screws to secure into place. \* Fastener or Screw sizes = 40mm in Length and 5mm or less in diameter.  
 13. If required, should the cables from the dish to the cover box be long in length and or loose it is advisable to secure down the cables via cable clamps or cable hold down ties in spacing gaps of every 40cm's or so.

**NOTE :** A good quality Waterproof ,UV resistant and Neutral curing Silicone sealant(s) can also be used. EG- Sikaflex 252 Brand



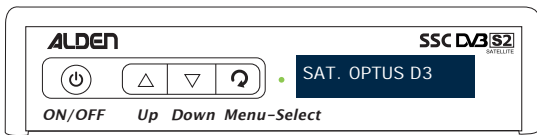
# Satlight Track60 - Quick Setup and User Guide :

1. Connect and Setup the Satlight Track60 as illustrated by the Diagram Below. The Satlight track60 is a portable auto dish, in which its base "dish unit" can be mounted /installed on a vehicle or be temporarily placed on a flat surface or be held down on a grass area with the tent pegs supplied.
2. On the SSC HD Unit (Control unit / black box) press the "Power On" button.
3. By default OptusD3 (For VAST and PayTV) will be seen flashing on the SSC LCD screen and no other press of a button is required . If "OptusD3" is Not flashing , Keep Pressing the UP Button once at a time and Stop when you see "OptusD3" flashing on the LCD. The Dish will deploy Up and start searching, when "OptusD3 is found the LCD will display "Pointing OK"and the green LED will be on.
4. When finished Usage, Press the "Off" button to fold the Dish Down ,disconnect cabling and Stow away.

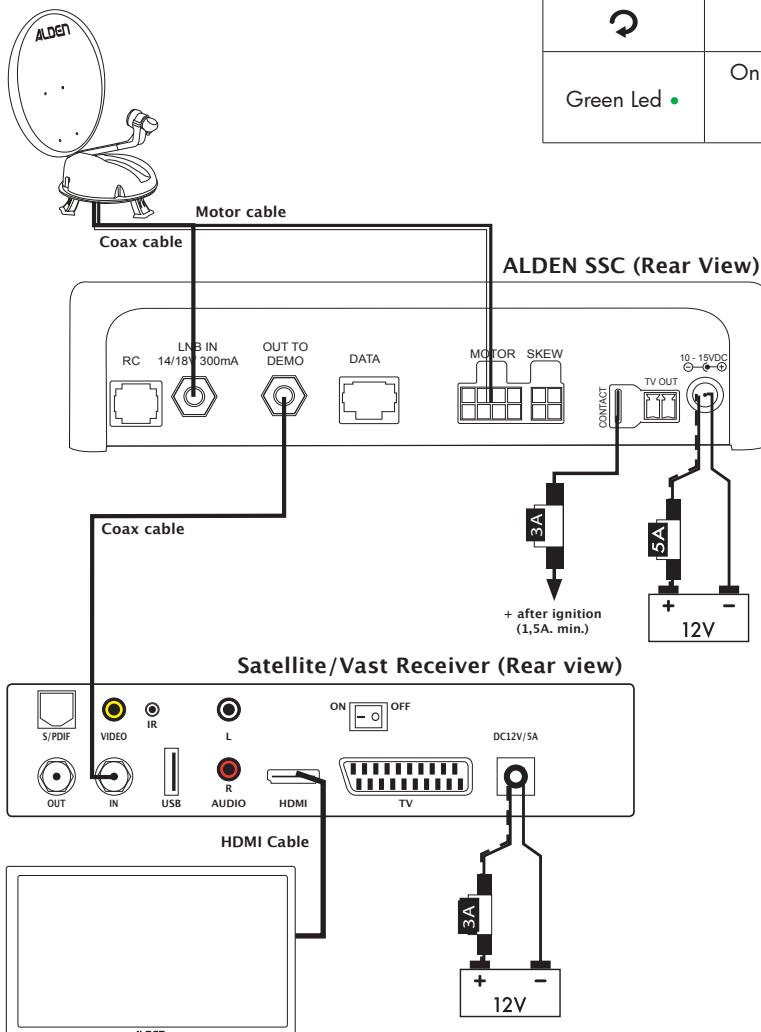
## Other relevant Information :

- a) 1<sup>st</sup> time (out of the box) or out of the same location area's (250km radius) satellite searches will result in longer "Pointing Ok" times, approx - 3 mins or so, subsequent same area searches approx- 1 minute.
  - b) When the Green LED is "On" the unit is in Standby mode and consumes approx- 4 watts power.
  - c) Other satellites selectable via the "Up" button. Set with 4 satellites and 4 Empty/Not used parameters in memory
  - d) Skew (Inb rotation for current position) is automatically achieved via the units GPS, auto Skew Set function.
  - e) The LNB (twin Output) value used is 10700 \*Make sure your satellite receivers Inb value is set to 10700
  - f) Every satellite is programmed with 3 transponder frequency settings in memory. The extra's are used as backups
  - g) The OptusD3 satellite selection / parameter is the strongest and best to use with VAST and PayTV services.
  - h) If the OptusD3 selection in an area has persistent weak signal, try using the Optus C1 selection instead.
  - i) The satellite parameters are modifiable manually from the SSC units "Menu System" or by upgrading them via its USB port.
- \*Simple and Quick Satellite parameters and firmware Upgrade via the usb port !

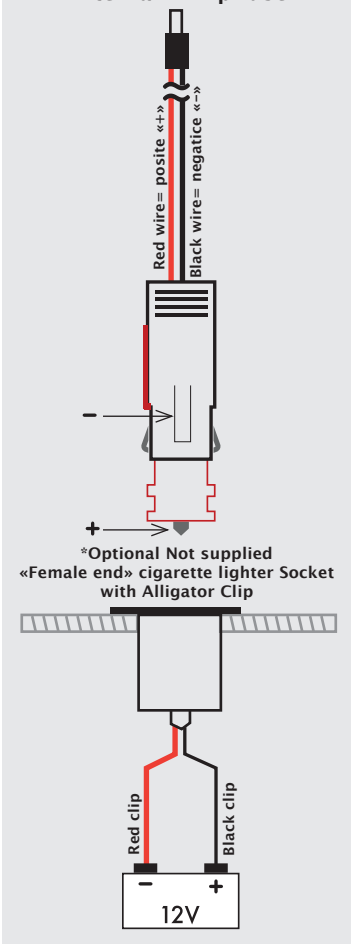
ALDEN SSC (Front View)



Designation	Function
	Switch the module on/off.
	Select the satellite/navigate in the menu.
	Close the dish/navigate in the menu.
	Access to the setting menu. SKEW option management.
Green Led	On: The S.S.C. is in stand by mode Off: The S.S.C. is off (Power intake = 0 Amps)



\* Supplied with a «Male end» cigarette lighter plug with a internal 5Amp fuse



Note : Regarding the "+ after ignition" connection  
\*If the Dish is to be Permanently Installed on a RV Vehicle as a Safety measure it is highly recommended this feature be utilized as the dish Automatically folds down when the vehicles ignition key is turned on.

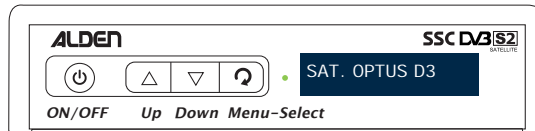
# Orbiter 80 - Quick Setup and User Guide :

1. Connect and Setup the Orbiter 80 (with dual output LNB) as illustrated by the Diagram Below.
2. On the SSC HD Unit (Control unit / black box) press the "Power On" button.
3. By default OptusD3 (For VAST and PayTV) will be seen flashing on the SSC LCD screen and no other press of a button is required . If "OptusD3" is Not flashing , Keep Pressing the UP Button once at a time and Stop when you see "OptusD3" flashing on the LCD. The Dish will deploy Up and start searching , when "OptusD3 is found the LCD will display "Pointing OK" and the green LED will be on.
4. When finished Usage, Press the "Off" button to fold the Dish Down and to turn itself off completely.

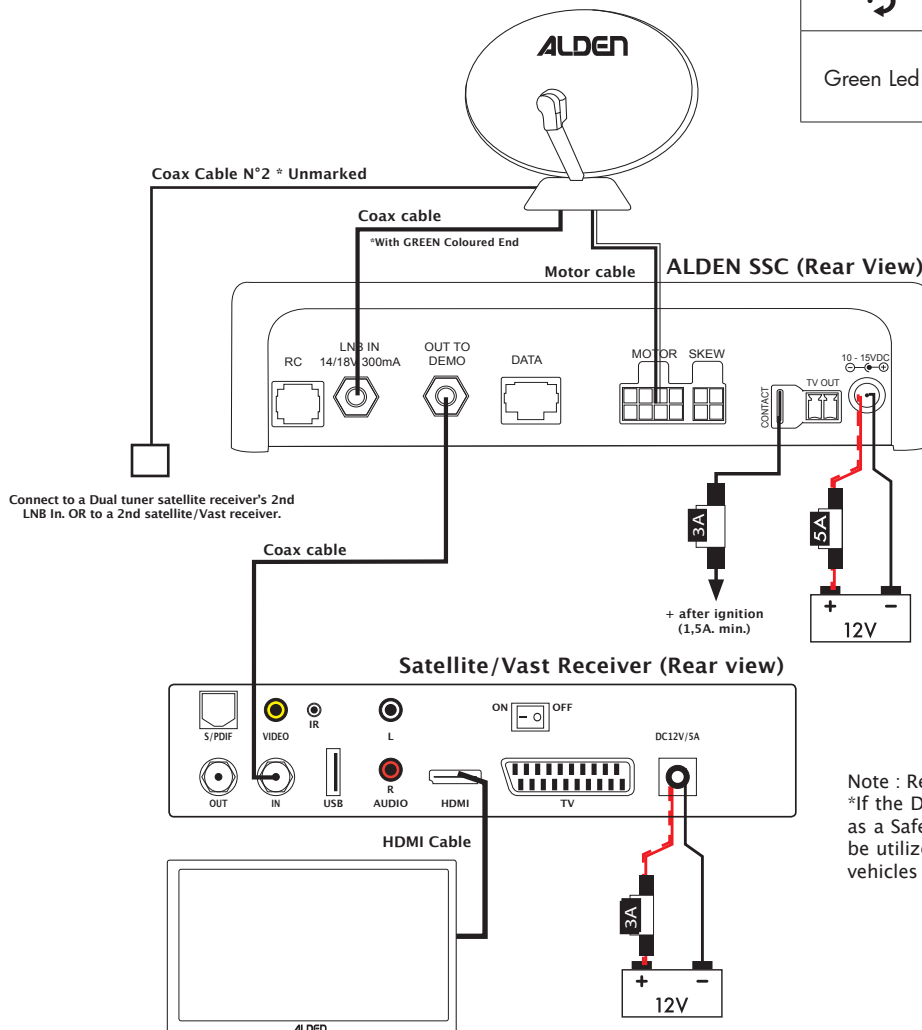
## Other relevant Information :

- a) 1st time (out of the box) or out of the same location area's (250km radius) satellite searches will result in longer "Pointing Ok" times, approx - 3 mins or so, subsequent same area searches approx- 1 minute.
  - b) When the Green LED is "On" the unit is in Standby mode and consumes approx- 4 watts power.
  - c) Other satellites selectable via the "Up" button. Set with 4 satellites and 4 Empty/Not used parameters in memory.
  - d) Skew (lnb rotation for current position) is automatically achieved via the units GPS, auto Skew Set function.
  - e) The LNB (twin Output) value used is 10700 \*Make sure your satellite receivers lnb value is set to 10700.
  - f) Every satellite is programmed with 3 transponder frequency settings in memory. The extra's are used as backups.
  - g) The OptusD3 satellite selection / parameter is the strongest and best to use with VAST and PayTV services.
  - h) If the OptusD3 selection in an area has persistent weak signal, try using the Optus C1 selection instead.
  - i) The satellite parameters are modifiable manually from the SSC units "Menu System" or by upgrading them via it's USB port.
- \*Simple and Quick Satellite parameters and firmware Upgrade via the usb port !

ALDEN SSC (Front View)



Designation	Function
	Switch the module on/off.
	Select the satellite/navigate in the menu.
	Close the dish/navigate in the menu.
	Access to the setting menu. SKEW option management.
Green Led	On: The S.S.C. is in stand by mode Off: The S.S.C. is off (Power intake = 0 Amps)



Note : Regarding the "+ after ignition" connection  
\*If the Dish is to be Permanently Installed on a RV Vehicle as a Safety measure it is highly recommended this feature be utilized as the dish Automatically folds down when the vehicles ignition key is turned on.



# Warranty

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Alden recommends that the installation be done by a professional.

If you choose to install the product yourself, you will be responsible for security.

In this case, you are meant to have the necessary competence. You will have to respect rules that are applied to professional installers. Respect the law. The product will only be used for the intended matter.

**Warranty:**

**The buyer will contact his retailer if problems occur with the product.**

**WARNING:**

**The warranty will be cancelled if you interfere on the product without Alden's agreement.**

Complete the following form and send it back to the following address with a copy of the invoice and the product:

info@alden.net.au  
Alden Australia, PO Box 7520 Garbutt QLD 4814

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## Warranty sheet

Last name, first name: .....

Full address: .....

Post code: .....

Town / COUNTRY: .....

Dealer:

Date of purchase: .....

Product:

Automatic satellite system serial number: .....

(on the satellite system support)

A.I.O® serial number: .....

(sticker=ALDEN AIO)

Decoder serial number: .....