



Congratulations on your purchase of your new *STREEKA* Powered Tonno Kit!  
Get ready to enjoy the ease and convenience of a fully motorised hard tonno lid, all at the press of a button.

**\*NOTICE:** Read and Understand this entire installation guide *BEFORE* starting installation. Australian Kustom Imports Pty. Ltd. accepts no responsibility for damage to vehicle or equipment due to incorrect installation. If you have any concerns, please seek professional installation from an Authorised Dealer.

**Contents List:**

\*The following items should be contained within your kit. Please check contents prior to installation.



<b>STONNO1: Single 12" Powered Tonno Kit</b>					
#	Description:	Qty	#	Description:	Qty
1)	SLA12 - 12" Linear Actuator	1	8)	Fuse Holder	1
2)	SLAMP - Linear Actuator Mounting Plate	1	9)	7.5amp Fuse	1
3)	SLAFP - Linear Actuator Flat Mounting Plate	1	10)	30A 12V Relay	2
4)	SLAMB - Linear Actuator Mounting Bracket	1	11)	Female Spade Connector	13
5)	SLABT - Linear Actuator Mounting Bolt w/Nylocks	1	12)	Dual Female Spade Connector	6
6)	Bolt, Flat Washer and Spring Washer	2	13)	Ring Terminal	3
7)	4mm Power Wire (Red - 8.5m / Black - 7m)		14)	Wire Joiner	6

<b>STONNO2: Dual 12" Powered Tonno Kit</b>					
#	Description:	Qty	#	Description:	Qty
1)	SLA12 - 12" Linear Actuator	2	8)	Fuse Holder	1
2)	SLAMP - Linear Actuator Mounting Plate	2	9)	7.5amp Fuse	1
3)	SLAFP - Linear Actuator Flat Mounting Plate	2	10)	30A 12V Relay	2
4)	SLAMB - Linear Actuator Mounting Bracket	2	11)	Female Spade Connector	13
5)	SLABT - Linear Actuator Mounting Bolt w/Nylocks	2	12)	Dual Female Spade Connector	6
6)	Bolt, Flat Washer and Spring Washer	4	13)	Ring Terminal	3
7)	4mm Power Wire (Red - 8.5m / Black - 7m)		14)	Wire Joiner	6

AUSTRALIAN KUSTOM IMPORTS PTY LTD  
Product Range - STREEKA

Limited Warranty Terms - Please Read Thoroughly

## Condition of Warranty

Australian Kustom Imports Pty Ltd (Manufacturer) warrants to the original purchaser only, that the Streeka products covered by this Limited Warranty will be free from defects in material or workmanship under intended use for a period of one (1) year from the date of purchase (the Warranty Period) Evidence of original purchase is required for warranty service.

If a product defect arises and a valid claim is received within Warranty Period, at its option, Manufacturer will repair or replace the defective product, and return it to you at no charge (except for shipping and handling). This warranty does not cover any expense incurred in the removal and/or reinstallation of the product. In no event will the liability of Manufacturer exceed the purchase price of the product.

Manufacturer is not responsible for failures or damage resulting from normal wear and tear, misuse, abuse, accident or natural disaster, improper line voltage, improper maintenance or neglect, unauthorised modifications, or incorrect installation.

To make a claim under this Limited Warranty, a Return Authorisation number must be obtained before any returns will be accepted. Please contact Sales on +61 3 9847 0177 or [sales@kustomimports.com.au](mailto:sales@kustomimports.com.au). You must return the complete product, transportation prepaid, to Manufacturer, C/o Australian Kustom Imports Pty Ltd, Unit 13, 100 New Street, Ringwood, Victoria. 3134 or P.O. Box 296 Mitcham, Vic. 3132. The product must be returned in its original packaging or packaging affording an equal degree of protection.

To the extent permitted by law, this warranty and the remedies set forth above are exclusive and in lieu of all other warranties whether oral or written, statutory, expressed or implied. As permitted by applicable law, Manufacturer disclaims all statutory or implied warranties, including without limitation, warranties of merchantability and fitness for a particular purpose. If Manufacturer can not lawfully disclaim statutory or implied warranties then to the fullest extent permitted by law, all such warranties shall be limited in duration to the duration of this expressed warranty and to repair, replacement, supply of equivalent goods or refund of price paid as determined by Manufacturer in its sole discretion.

In no event shall Manufacturer be liable for any incidental or consequential damages (including but not limited to liability for loss of profits or damage to other property) arising from the sale or use of this product, including liability to the original purchaser or any third party.

This Limited Warranty applies only to products sold within the Commonwealth of Australia.

# STONNO Installation Guide:

\*Special Thanks to Sam Pansino, Brett Morris and the entire Team at *Phatt Audio Concepts* in Braeside, VIC for all their help putting this installation manual together.

## Step 1: Find location for Linear Actuator Mounting Plate (*SLAMP*)

A)



- Mount *SLAMP* in location directly accessible from underneath vehicle. *SLAMP* bolts through tub floor into pre-threaded mounting holes.

- \*Allows *SLAMP* to be detached in the event of loss of power to *SLA12* - in order to manually open tonno lid

- Mount *SLAMP* as close to cabin of vehicle as possible (not possible on all vehicles)

- \*Mounting closer to cabin ensures full opening of tonno lid from *SLA*'s 300mm throw

B)



- Locate *SLAMP* to minimise intrusion into cargo area while still allowing *SLA12* to clear upper edge of tub.

- \**SLA12* can be mounted on either the inside or outside of the *SLAMP* as long as clearance allows. Mounting between *SLAMP* and tub wall will protect *SLA12* from being damaged by any contents carried in tub.

- \*Depending on your vehicle it may be necessary to cut down the height of the *SLAMP*, for example mounting the *SLAMP* on top of the vehicle's wheel arch. Therefore the *SLAMP* has been left as bare steel so you can paint it once all modifications are complete

C)



- Ensure that *SLAMP* will clear tub liner if applicable

- \**SLAMP* can be mounted on top of tub liner, or a cut can be made in tub liner allowing *SLAMP* to pass through

D)



- Mark and drill mounting holes for *SLAMP*

- Bolt *SLAMP* in place using supplied bolts, washers and spring washers.

- Bolts may be cut to length if required

# STONNO Installation Guide:

## Step 1 Continued: Find location for Linear Actuator Mounting Plate (SLAMP)

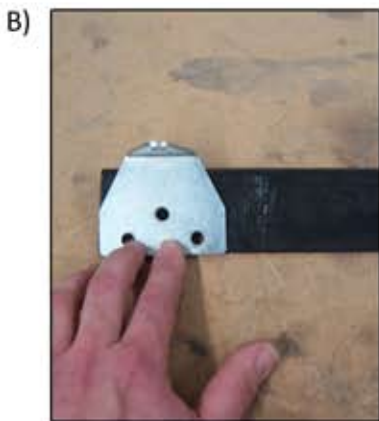


- If installing the dual linear actuator kit (STONNO2), exactly mirror SLAMP location on opposite side of vehicle.
  - \*SLAMP's must be mounted equally to ensure smooth operation while lifting and closing the tonno lid. Use the same measurements you obtained in Steps 1A through 1C

## Step 2: Mount Linear Actuator Flat Mounting Plate (SLAFP) to underside of tonno lid \*If required



- Underside of some tonno lids use thin fibreglass which is too weak to directly attach the SLAMB. The SLAFP creates a strong mounting point for the SLAMB by using the existing gas strut mounting locations.
- Remove existing gas strut and gas strut mounting plate
  - \*Make sure tonno lid is securely supported before removing the gas strut



- Use gas strut mounting plate as template, drill mounting holes into one end of the SLAFP



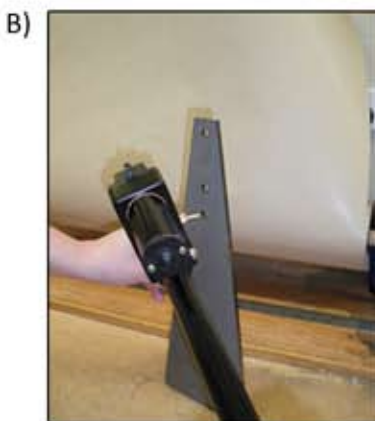
- Attach SLAFP to underside of tonno lid using existing gas strut mounting holes and bolts
- Attach opposite end of SLAFP to underside of tonno lid with a self tapping screw - more screws will be added later after determining the mounting location for the SLAMB (Step 3G)
  - \*Screws not supplied - ensure screws are correct length to prevent damage to top side of tonno lid

# STONNO Installation Guide:

## Step 3: Test fit 12" Linear Actuator (SLA12)



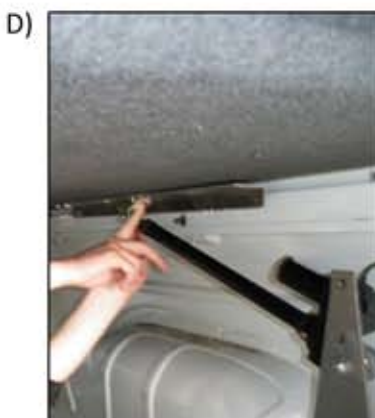
- Connect *SLABT* to motor end of *SLA12*
- Long end of *SLABT* goes through *SLA12*
- Small end will go through mounting hole of *SLAMP*
- Use supplied nylocks to secure



- Connect small end of *SLABT* through third hole from top of the *SLAMP*
- Use supplied nylocks to secure
- \**SLABT* may need to attach to *SLAMP* using a different mounting hole, depending on your vehicle, but start here to begin your test fit. Testing to determine exact position, done in Steps 3G and 4A.



- Attach *SLAMB* to small end of *SLA12* using supplied spacers to keep it centred
- Use supplied nylocks to secure



- Close the tonno lid, and with the *SLA12* in *CLOSED* position lift the free end until it touches the underside of the tonno lid (or *SLAFP*)
- Use tape to mark out the location where the *SLAMB* touches the underside of tonno lid (or *SLAFP*)
- \*Note: *SLA12* can be mounted with the small end pointing either towards or away from the cabin of the vehicle. Both mounting options work equally well, however mounting locations on the *SLAMP* will vary according to your particular setup. In our example the vehicle's fuel tank was located in front of the wheel arch, preventing clear access to the underside of the *SLAMP* so an alternate mounting location was chosen, in this case behind the wheel arch, so the small end of the *SLA12* points towards the cabin of the vehicle.

# STONNO Installation Guide:

## Step 3 Continued: Test fit 12" Linear Actuator (SLA12)

E)



- Using a 12V-14V cordless drill battery, connect the negative wire from the *SLA12* to the negative battery terminal. Then touch the positive wire from the *SLA12* to the positive battery terminal
- *SLA12* should begin to extend, continue until fully extended to approximately 300mm (*SLA12* will stop automatically)
  - \*Hold onto *SLAMB* to prevent it from spinning as *SLA12* extends. If *SLAMB* spins it will reduce the 300mm usable throw of the *SLA12* (See Step 5)

F)



- Open tonno lid, and lift free end of *SLA12* until *SLAMB* touches between the tape marks made in Step 3D.

G)



- Measure total opening distance of tonno lid and compare against stock.
- If total opening distance is too low, then move *SLA12* to a different mounting location on *SLAMP* and repeat Steps 3D to 3G, repeat as necessary.
  - \*Note using a higher mounting position on the *SLAMP* may cause the starting (closed) angle to be too shallow. This can cause problems opening and closing the tonno lid. Use caution during test run in Step 4
- Once positions are acceptable, use cordless drill battery to close the *SLA12*. Repeat Step 3E but wire *SLA12* in reverse polarity.
- Connect negative wire from *SLA12* to the positive battery terminal. Then touch the positive wire from the *SLA12* to the negative battery terminal. *SLA12* should begin to close, continue until fully closed (*SLA12* will stop automatically)
  - \*Hold onto *SLAMB* to prevent it from spinning as *SLA12* closes. If *SLAMB* spins it will reduce the 300mm usable throw of the *SLA12*
- Mount *SLAMB* to underside of tonno lid (or *SLAMP*) with self tapping screws. Also secure free end of *SLAFP* with well spaced self tapping screws. (from Step 2C)
  - \*Screws not supplied - ensure screws are correct length to prevent damage to top side of tonno lid

H)



- If installing the dual linear actuator kit (*STONNO2*), ensure that mounting positions for the *SLAMP* and *SLAMB* are exactly the same on both sides of the vehicle. This ensures smooth operation when lifting and closing the tonno lid.

# STONNO Installation Guide:

## Step 4: Test Run

### Step 4A:

- Check that all mechanical connections are secured
- Make sure that tonno lid is clear from obstructions, both above and below.
- Using a 12V-14V cordless drill battery, connect negative wire from *SLA12* to the negative battery terminal. Then touch the positive wire from the *SLA12* to the positive battery terminal (same as Step 3E)
- *SLA12* should begin to extend
  - \* If *SLA12* does not extend, or attempts to close, then reverse the polarity of the cordless drill battery by connecting the positive wire from the *SLA12* to the negative post of the battery, and then touching the negative wire from the *SLA12* to the positive battery post of the battery
- Carefully watch the movement of the tonno lid as the *SLA12* extends. Tonno lid should begin to lift vertically.
  - \* If tonno lid does not begin lifting right away then disconnect positive wire from battery immediately. If *SLA12* is mounted too high on the *SLAMP* then the starting (closed) angle may be too shallow. This can cause too high of a load on the *SLA12* motor which could damage the unit. If starting (closed) angle is very low the *SLA12* may begin pushing the tonno lid directly forwards or backwards (depending on mounting direction) which risks damaging the tonno lid hinges and potentially the tonno lid itself.

### Step 4B:

- In the case of a starting angle problem please return to Steps 3B to 3H and choose a lower mounting position on the *SLAMP*. If none of the pre-drilled mounting locations are applicable, a new location can be drilled into the *SLAMP* to suit your vehicle.
- Repeat tests from Step 4A

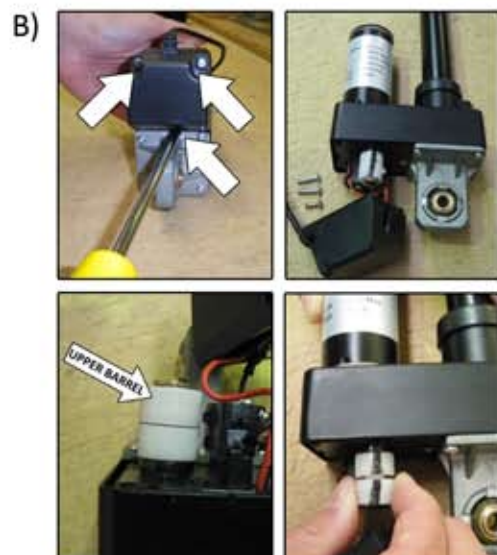
## Step 5: Fine Tuning - Setting Limit Switches

In some vehicles you may not require the entire 300mm throw of the *SLA12*. It is possible to adjust both the inner and outer limits separately, so you can obtain any combination of distances between 0mm and 300mm (for example you may want a usable range from 50mm through to 275mm). You may also use this process to adjust the opening and closing points for the two *SLA12*'s found in an *STONNO2* to ensure they are perfectly matched.



### Adjusting Closed Limit:

- If adjustments to the Closed Limit are required, they must be done First, before adjusting the Open Limit.
- This is done by manually spinning the small end of the *SLA12*
- Using a cordless drill battery (as in Step 4A) make sure that the *SLA12* is in it's standard closed position (run *SLA12* until motor automatically shuts off)
- Disconnect small end of *SLA12* from *SLAMB*, then manually spin it **ANTI-CLOCKWISE** until your desired starting position is reached.
- \*WARNING - Do Not spin *SLA12* **CLOCKWISE** from it's original closed position, this will result in damage to the *SLA12* motor, as well as potentially damaging other parts of the *STONNO* kit or vehicle.



### Adjusting Open Limit:

- To adjust the outer limit remove the three screws holding on the plastic cover on the bottom of the *SLA12*.
- Carefully remove plastic cover from bottom of *SLA12*, making sure not to damage the wires
- A prong on the upper white plastic barrel presses the upper micro switch as it spins. The barrel spins **ANTI-CLOCKWISE** when opening and **CLOCKWISE** when closing.
- To increase the Opening Limit (maximum 300mm) carefully pull on the upper barrel and spin it one tooth **CLOCKWISE** at a time
- To decrease the Opening Limit, carefully pull on the upper barrel and spin it one tooth **ANTI-CLOCKWISE** at a time
- \*WARNING - each tooth on the bottom of the barrel equals approximately 1cm of length on the *SLA12*.
- Carefully test movement of *SLA12* by repeating Step 4A

\*When mechanical installation is complete proceed to Step 6: Electrical Wiring Guide on Page 8.

# STONNO Installation Guide:

## Step 6: Electrical Wiring Guide

Wiring the *STONNO* kits requires the use of a pair of relays to create a reverse polarity switch. This allows your Tonno lid to both raise and lower from a single On/Off/On rocker switch. Please pay close attention to the wiring of the relays, as this is the core of the system.

\*Note: Post 85 and 87a from Relay #1, and Posts 86 and 87a from Relay #2 must ALL be connected to the (+) Positive battery post (using the supplied 7.5a fusing)



Find an easily accessible location within the vehicle cabin to securely mount the *SWMOM* switch. This will become the main controller for your powered tonno lid.



Find a suitable location within the vehicle cabin to securely mount the relay network. Avoid high traffic areas where the relays may be damaged.

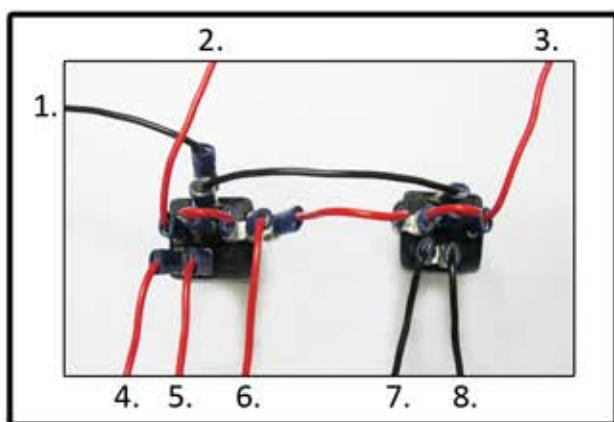
Ensure all connections are tight and secure, insulate with electrical tape for further protection. \*Solder and Heat-Shrink all connections if available.

System must be fused within 30cm of the battery \*Do Not exceed the supplied 7.5 amp of fusing

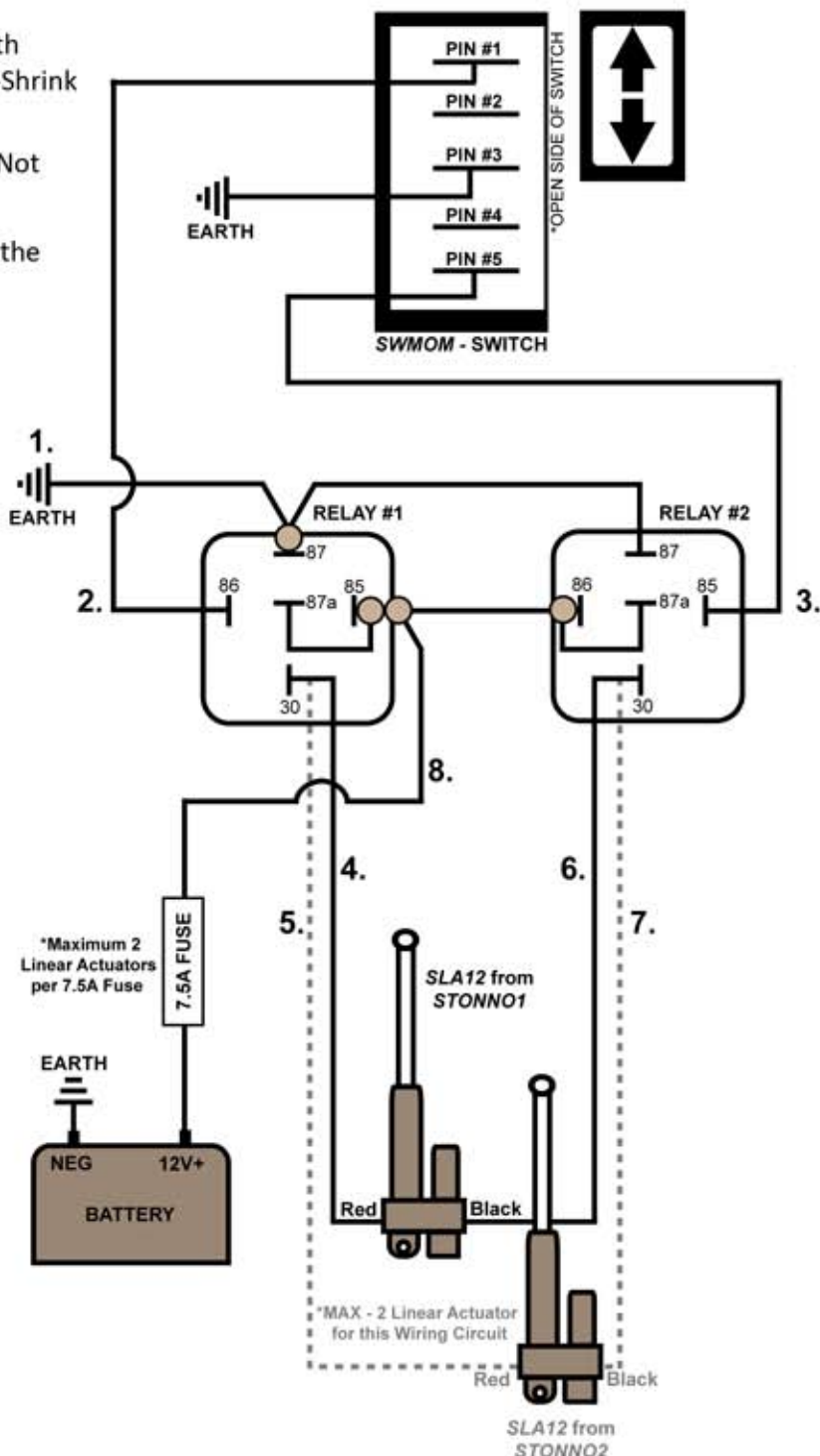
Earth Relay network directly to the sheetmetal body of the vehicle, prep area by sanding back any paintwork.

 This symbol means use a Dual Female Spade Connector 

 This symbol means use Two Dual Female Spade Connectors 



1. to (-) Negative Earth
2. to *SWMOM* Pin #1
3. to *SWMOM* Pin #5
4. to Red Wire of first *SLA12* (*STONNO1*)
5. to Red Wire of second *SLA12* (*STONNO2*)
6. to (+) Positive wire of Battery (7.5a fused)
7. to Black Wire of first *SLA12* (*STONNO1*)
8. to Black Wire of second *SLA12* (*STONNO2*)



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