Bluetooth Tipper Remote – User Manual

Purpose

The Bluetooth tipper remote kit with charger provides the user with the convenience of controlling the Nugent range of tipping trailers via their phone.

The charging kit allows the user a fast, safe way of charging the battery in the Nugent range of tipping trailers without having to have the tipper raised up to allow access to the battery.

Important safety instructions

Be sure to observe the following guidelines when using the Bluetooth tipping module/charging unit.

Kill switch

Kill switch must be engaged when the trailer is in motion or being left unattended.

Bluetooth tipping module

Unit contains no serviceable parts and should not be opened at any time, if the unit must be opened this must only be performed by a competent person.

Ensure that the area around the tipper is clear and that there are no people, animals or other obstacles in the way.

Battery charger

Explosion risk – Only connect the battery charger when the mains lead is unplugged.

Gases may leak during the charging process, ensure that the area is well ventilated during charging.

Charger is for indoor use only.

Unplug the charger from the mains before connecting/disconnecting the battery charger.

Charging unit has been tested with the batteries that come in stalled in the Nugent Tipper trailers, for charging any other battery please consult the charger instructions.

Unit is for charging only one battery at a time.

Charger is not to be used to recharge non rechargeable batteries.

Do not leave the charger unattended for long periods of time when charging the battery in the trailer.

Do not use the charger in damp, wet areas as moisture can damage the charger.

When not in use store the charge in a cool, dry location out of reach of children.

Ensure the crocodile clips are securely on the battery terminals and that the positive and negative are connected the correct way before plugging in the charge.

Content included in Bluetooth kit

Smart charger

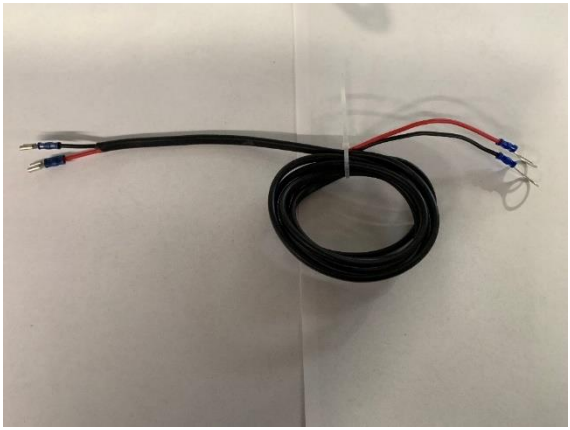
Charging cables

X1 Cobo plug end for charging Nugent tipper

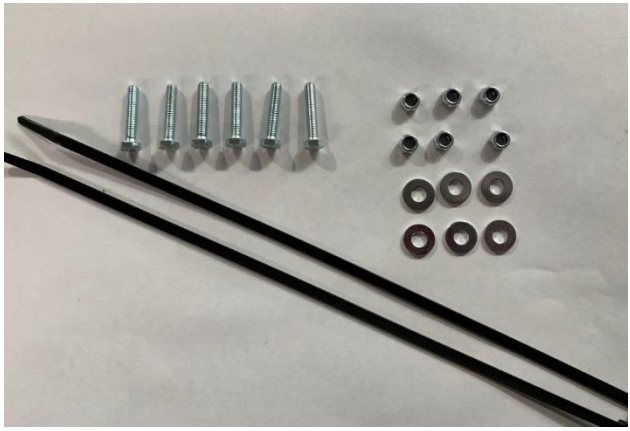
X1 clip ends for using as 12v charger (car battery, etc)

Bluetooth module

Battery cable



Fitting kit



Installation guide

(no KOBO plug hole/mounting holes, no holes for Bluetooth module in drawbar)

Required tools:

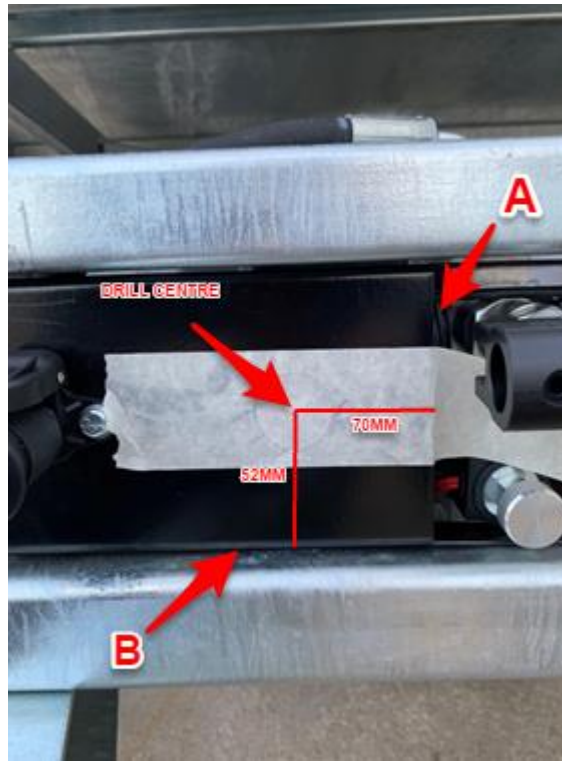
- Drill
- 30mm hole saw
- 6mm drill bit
- Masking tape
- Star screwdriver
- Measuring tape
- 10mm spanner/socket
- 8mm spanner/socket
- Wire cutters
- Measuring tape
- Marker pen

Battery cable

The battery cable is used to power the Bluetooth module and also the charge point to charge the battery.

COBO plug

The COBO plug end must be installed first, do not connect the battery first or else there is a risk of touching the red and black wires together when attaching them to the COBO plug.



- Mark the hole to be drilled for the COBO plug using the masking tape as shown
- 70mm across from edge A
- 52mm up from edge B
- Mark point and use this point to drill the 30mm hole with the hole saw

- Cut the hole using the drill and hole saw
- Prepare the battery cable by putting the sheath onto the wire and pushing the wire through the hole from the inside

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- Prepare the battery cable by putting the sheath onto the wire and pushing the wire through the hole from the inside
- Connect the terminals to the COBO plug and pull the sheath over the COBO plug

- Put the kobo plug into place and use a pen to mark the mounting holes for the kobo plug
- Remove the kobo plug and use the drill and the 6mm bit to drill the holes
- Push the kobo plug securely into the hole

- Use the suppled bolts to secure the kobo plug to the trailer

Battery connection

- Loosen the nut on the positive side of the battery and disconnect the cable
- Put the positive connection of the battery cable onto the battery
- Replace the positive battery connection
- Replace the nut removed from the first step and tighten it securely
- Repeat the above steps for the negative terminal
- Use the cable ties to secure the battery cable to the existing cables as shown
- Trim the ends of the cable ties with the cutters

Bluetooth module

- Remove the 4 screws from the box of the Bluetooth module
- Use the drill and 6mm drill bit to drill through the Bluetooth module box as shown
- Place the box into the drawbar of the trailer as shown
- Use the marker pen to mark the location of the holes on the drawbar
- Remove the Bluetooth module and use the drill to drill the 4 mounting holes
- Use the nuts and bolts provided to attach the module to the drawbar
- Put the cover of the Bluetooth module back in place and replace the 4 screws ensuring to tighten them fully

Using the Bluetooth tipping feature

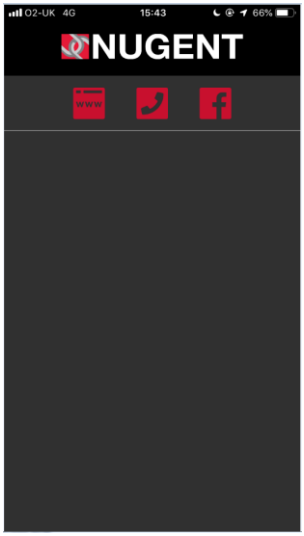
The app available on the app store and play is suitable for devices running:

IOS 9.0+

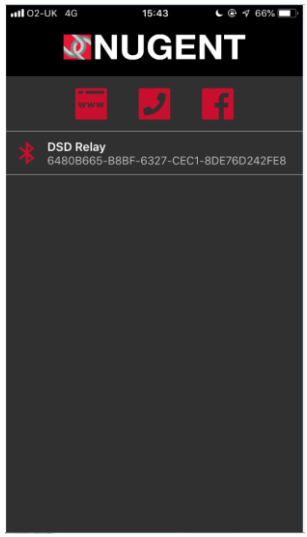
Android 5.0+

Using the app

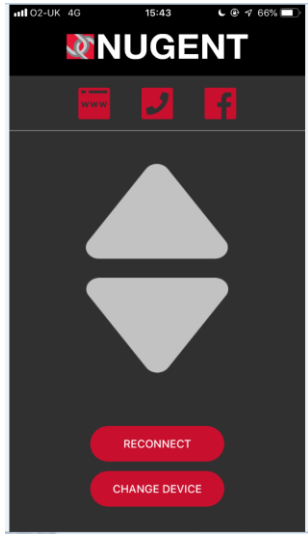
Make sure that Bluetooth is turned is switched on. (Refer to the documentation of your phone for instructions on doing this).



This is the main screen of the app; it will appear as shown when it isn't connected to a Nugent tipping trailer.

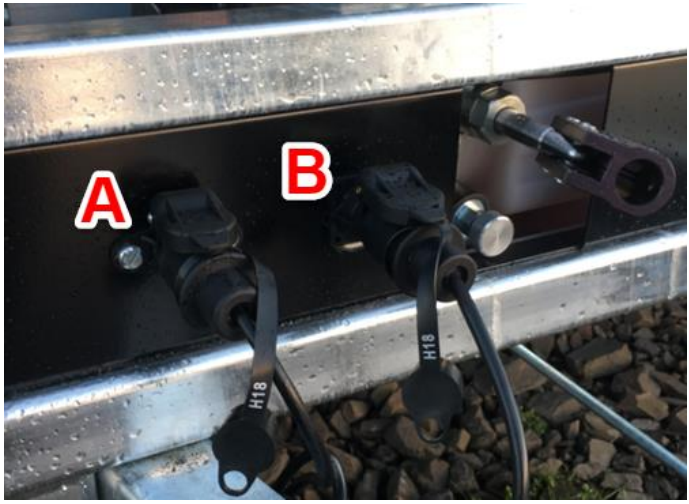


When a Nugent Tipping trailer is in range the app will appear as shown "DSD relay", this is the Bluetooth module. Click on this to connect to the trailer.



The Bluetooth module is now connected to the phone and the arrow keys can be used to control the tipping of the trailer.

Using the charger



On the front of the trailer there are two sockets as shown above.

Left socket – Control cable from Bluetooth module. (This socket can also be used to plug in a wired controller if required).

Right socket – Power supply to Bluetooth module and battery charging port.

- Unplug socket B from the trailer
- Plug the charging lead into socket B
- Plug the charger into a mains socket
- When charging is complete
- unplug the charger from the mains socket
- unplug the lead from socket B
- plug the power cable from the Bluetooth module back into socket B

Troubleshooting

Bluetooth module is not working

- Ensure that Bluetooth is turned on
- Restart the app (see phone instructions for specifics on doing this)
- Ensure both sockets from the Bluetooth module are plugged into the trailer and are fitted securely
- Ensure that the battery connections are secure and that the battery has power
- When one person is connected to the tipping trailer and is in range it is not possible for someone else to take control of the tipper. To allow this the connected person must disconnect to allow the other user to connect

Bluetooth tipping remote FAQ

Safety warning

Lockout switch must be engaged when the trailer is unattended or being towed.

What is the range of the device?

The range depends on obstacles, weather etc. approx. 20-30m.

Can more than one device tip the trailer at one time?

No, only one device can be connected to the Bluetooth module at any time.

Does the module require batteries to be installed/changed?

No, the module is powered by the 12volt battery which is on the trailer for powering the tipper pump.

Will the module run the battery down?

The module when in standby mode uses a minimal amount of current which wouldn't be sufficient to run the battery down in a period of time any shorter than 6 months, however it is recommended to disable the tipping mechanism via the kill switch when the trailer is not in use, or when in transport.

Does the module require any maintenance?

No the module does not require the user to do anything for the life span of the product.

Which phones can use the Bluetooth tipping module?

Both android and IOS phones are supported.

IOS devices with IOS 10+ are supported, and android devices with android lollipop 5.0+ are supported.

Can the Bluetooth module be used when my phone is connected to the car via Bluetooth?

We have tested this with several devices and the Bluetooth tipper module can be used while the phone is still connected to the car via Bluetooth.