

LINX

VEHICLE ACCESSORY INTERFACE



INSTALLATION GUIDE

LX100 Vehicle Accessory Interface Kit | 27.06.18



WHAT IS LINX?

WHAT IS LINX?

LINX is a sleek touchscreen interface that enables total control of both new and existing 4X4 Accessories. Gone are the days where the only option for installing aftermarket switches meant drilling multiple holes into the dashboard.

INTRODUCING TOTAL CONTROL

LINX is a unique modern controller that declutters the dashboard and centralises the command of vehicle accessories by replacing classic switches, gauges and monitors with one sleek and smart driver interface. Built on an expandable platform, LINX will continue to evolve your on and off road driving experience both now and into the future.

The mobile touchscreen display integrates seamlessly into the vehicle cabin and mounts to a LINX Display Gimbal Mount that's installed within easy reach of the driver. This connects to the LINX Controller which is the brains behind the system, and is conveniently installed out-of-sight either underneath the dash or the seat.



STAY IN THE LOOP

For the latest details, updates and list of accessories, head over to:

www.linx.arb.com.au

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Get to know the basic in's and out's of your brand new LINX - the next generation of 4x4 Accessories.

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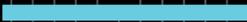
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WHAT'S IN THE BOX?

Get to know your starter LINX kit components, their purpose and part numbers.

LINX Controller

PRODUCT CODE: 7450102



LINX Display

PRODUCT CODE: 7450102



USB Cable

PRODUCT CODE: 7450104



LINX Gimbal Display Mount

PRODUCT CODE: 7450103



Wiring Harness - LINX Power

PRODUCT CODE: 180423



LINX Terminal Kit

PRODUCT CODE: 7450105



DIN Rail 180mm

PRODUCT CODE: 7450210



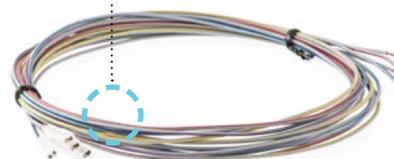
Wiring Harness - LINX Patch

PRODUCT CODE: 180420



Wiring Harness - LINX Inputs

PRODUCT CODE: 180426





SPECIFICATIONS

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SPECIFICATIONS OVERVIEW

CONTROLLER FEATURES	
Operates from 12VDC (nominal) power	
25 digital outputs for switching low wattage devices such as relays and solenoids	
8 digital inputs for detecting the state of switches	
2 analog inputs for measuring battery voltages	
7 analog inputs for sensor inputs	
Bluetooth based communication link for communication with LINX Display	
USB port for communication with LINX Display, and charging the battery in the LINX Display	
Clip-off connection cover for securing wiring connections and promoting tidy wiring	
Quick rail mounting system allows the LINX Controller wiring connections to be made in an open area before mounting, then quickly and securely mounted in confined space.	
FCC, CE and RCM certification	
Dimensions: 180mm x 126mm x 44mm	Weight: 0.38KG
DISPLAY FEATURES	
ARB LINX App	
ARB LINX magnetic mounting system	
Android operating system	
USB, Bluetooth, and Wifi connectivity	
GPS	
Capacitive touch screen	
FCC, CE and RCM certification	Weight: 0.16KG

CONTROLLER MINIMUM RATINGS				
DESCRIPTION	MIN	NOMINAL	MAX	UNITS
Power supply voltage	9.0	12.8	16.0	VDC
Power supply current			8.0	A
Digital output current			0.5	A
Digital input voltage			16.0	VDC
Battery voltage inputs			16.0	VDC
Analog sensor inputs			5.0	VDC
USB charging port voltage		5.1		VDC
USB charging port current			1.4	A

NOTE: Please refer to Operation Guide for further information on setup and use of each module.

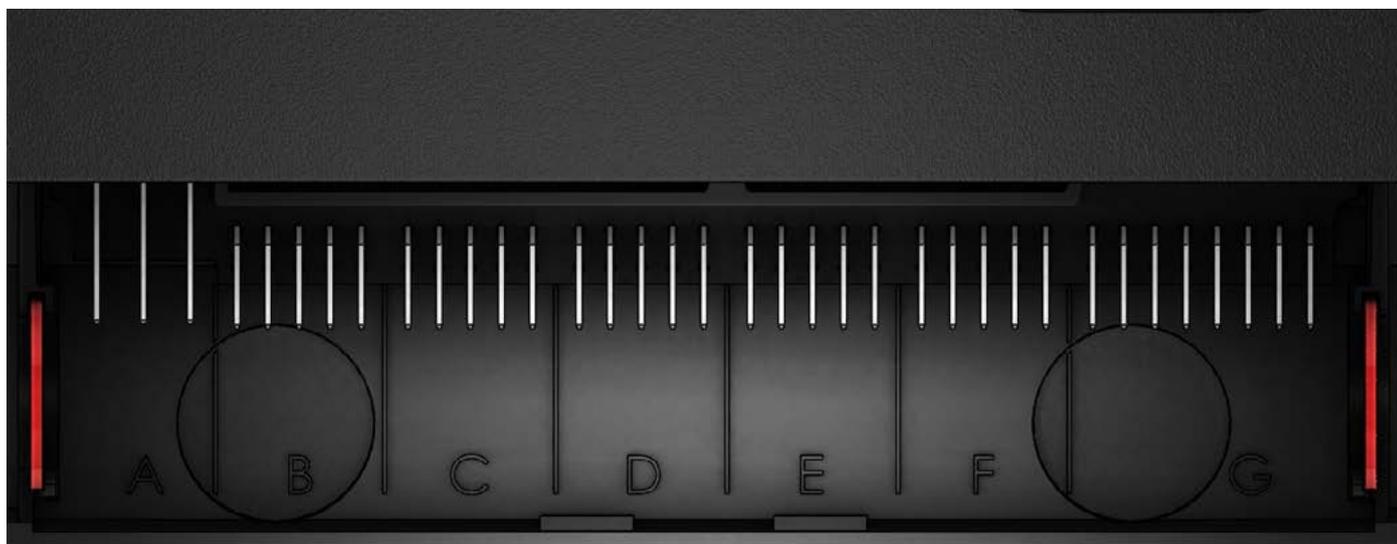
LINX CONTROLLER LAYOUT

The LINX Controller terminals are grouped into blocks for referencing purposes and to simplify identification. The groups do not relate to individual LINX Modules, such as Traction or Switchboard.

The relationship between LINX functions and LINX Controller terminals is specified in the LINX Terminals Function Table.

The groups are labelled from A to O, and the terminals in each group are numbered from left to right as shown in the following figures.

The bottom row of connection terminals (see above) are groups A, B, C, D, E, F and G and contain the group of power terminals, digital outputs and digital inputs.



A			B					C					D					E					F					G												
Power			Digital Output					Digital Input																																
1	2	3	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	6	7	8

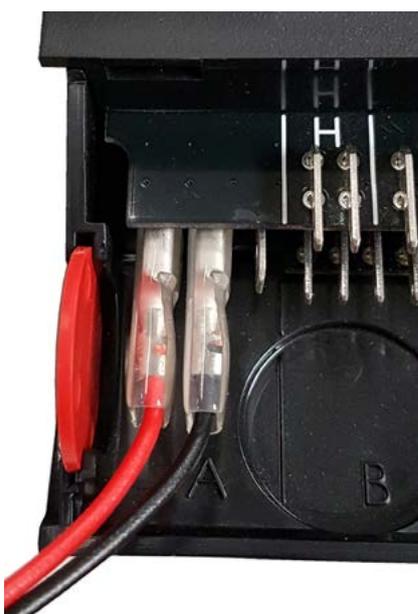
The top row of connection terminals are groups: H, I, J, K, L, M, N, O and USB. These groups contain all the connections related to the analog sensor inputs and the USB port.



H		I			J			K			L			M			N			O			USB
Batteries 2 & 3		Sensor			USB Port																		
1	2	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1

The terminals will be referenced when connecting wiring harnesses in accordance with the following examples:

EXAMPLE ONE



Connect the power positive wire (red) to terminal A1, and the ground negative wire (black) to terminal A2.:

EXAMPLE TWO



Connect the accessory wire to digital output terminal C3:

TERMINALS FUNCTION TABLE

TERMINAL IDENTIFICATION	TERMINAL FUNCTION	WIRE COLOUR IN CORRESPONDING LOOM
Bottom Row		
A1	Power, battery positive (+12VDC), also Battery Voltage Measurement Battery 1	Red
A2	Power, battery negative (vehicle ground)	Black
A3	-	-
B1	-	-
B2	Air Locker solenoid, front	Dark green/white trace
B3	-	-
B4	Air Locker solenoid, rear	Yellow/white trace
B5	Compressor, compressor wiring harness relay	Red/white trace
C1	Compressor, PRV, inflate solenoid	Orange
C2	Compressor, PRV, deflate solenoid	Purple
C3	Switchboard, Accessory 1 relay	Not supplied
C4	Switchboard, Accessory 2 relay	Not supplied
C5	Switchboard, Accessory 3 relay	Not supplied
D1	Switchboard, Accessory 4 relay	Not supplied
D2	Switchboard, Accessory 5 relay	Not supplied
D3	Switchboard, Accessory 6 relay	Not supplied
D4	Air Suspension, PRV, inflate solenoid	Orange
D5	Air Suspension, PRV, deflate solenoid	Purple
E1	Air Suspension, front left isolation solenoid	Orange
E2	Air Suspension, front right isolation solenoid	Purple
E3	Air Suspension, rear left isolation solenoid	Orange
E4	Air Suspension, rear right isolation solenoid	Purple
E5	-	-
F1	-	-
F2	-	-
F3	-	-
F4	-	-
F5	-	-
G1	Input, vehicle ACC power (+12VDC)	Grey/red trace
G2	Input, parker lights/low beam	Grey/yellow trace
G3	Input, headlight high beam	Grey/blue trace
G4	Input, reverse light	Grey/purple trace
G5	Input, switch, Air Locker, front	Green
G6	Input, switch, Air Locker, rear	Yellow
G7	-	-
G8	-	-

TERMINALS FUNCTION TABLE

TERMINAL IDENTIFICATION	TERMINAL FUNCTION	WIRE COLOUR IN CORRESPONDING LOOM
Top Row		
H1	Battery Voltage Measurement, Battery 2	Not supplied
H2	Battery Voltage Measurement, Battery 3	Not supplied
I1	-	-
I2	-	-
I3	-	-
J1	-	-
J2	-	-
J3	-	-
K1	Sensor, compressor PRV, +5VDC	Red/green trace
K2	Sensor, compressor PRV, signal	Yellow/green trace
K3	Sensor, compressor PRV, ground	Black
L1	Sensor, air suspension PRV, +5VDC	Red/green trace
L2	Sensor, air suspension PRV, signal	Yellow/green trace
L3	Sensor, air suspension PRV, ground	Black
M1	-	-
M2	-	-
M3	-	-
N1	-	-
N2	-	-
N3	-	-
O1	-	-
O2	-	-
O3	-	-
USB	USB	



CONTROLLER INSTALLATION

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REQUIRED TOOLS

TOOLS REQUIRED

The following tools may be required for the installation of the LINX Controller:

- Power drill
- Phillips head screw driver bit
- Hex key set, metric
- Torx T-20 key
- Wire cutters
- Wire strippers / pliers
- Wire crimpers suitable for 16AWG open barrel terminals
- Wire crimpers suitable for small open barrel terminals (such as utilux #147A)

WIRING TECHNICAL NOTE

Each LINX wiring loom kit comes with the required crimps and insulating sleeves to neatly and securely attach to the terminals on the LINX Controller. Please follow the steps below for the 2 different sized crimp terminals.

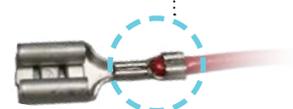
LINX TERMINAL WIRING

PRODUCT CODE: 180423

- 01** Position the wire as shown with the bare wire in the smaller part of the open barrel, and the wire insulation in the larger part of the open barrel.



- 02** Using wire crimpers suitable for 16AWG wire, crimp the bare wire into the smaller part of the barrel, and the insulated section into the larger part of the barrel.



- 03** Insert the terminal into the soft insulator sleeve

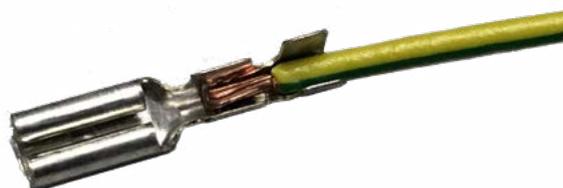


LINX INPUT/OUTPUT TERMINAL WIRING

- 01** Strip the insulation as shown. Then place the insulating sleeve over the top of the wire.



- 02** Position the wire as shown with the bare wire in the smaller part of the open barrel, and the wire insulation in the larger part of the open barrel.



- 03** Using crimping pliers suitable for small open barrel terminals (e.g: Utilux 147A) crimp the bare wire.



- 04** Crimp the larger part of the barrel onto the insulation.



- 05** Slide the insulating sleeve back up the wire and cover the crimp terminal



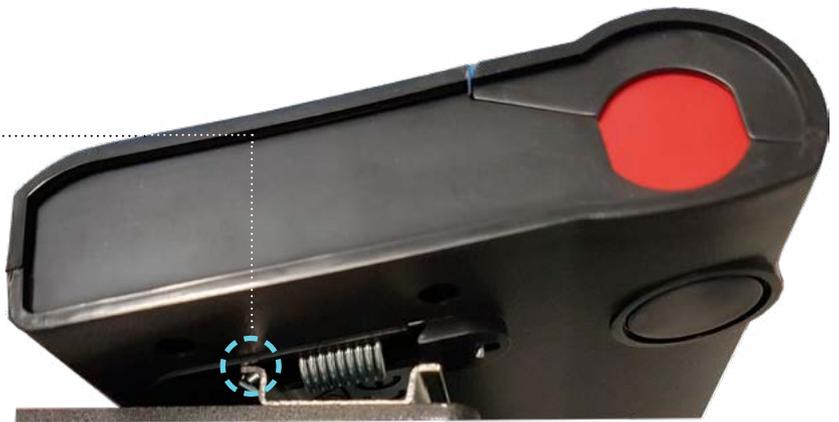
MOUNTING THE CONTROLLER

The LINX Controller is intended to be installed in the vehicle interior, in a location that will not be exposed to moisture or excessive heat.

The LINX Controller is designed with an integrated DIN rail clip-on mount. The short length of DIN rail provided needs to be screwed securely to a rigid part of the vehicle such as a dashboard support bracket. Then the LINX Controller can be simply clipped into place on the DIN rail as shown below

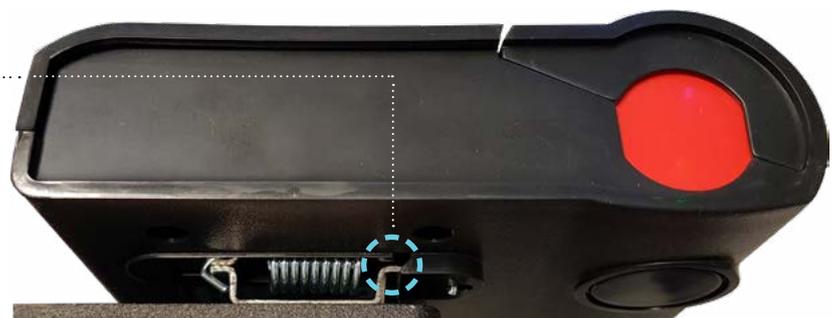
STEP ONE

Clip the wire hooks on the left onto the rail.



STEP TWO

Push the controller to the right until it clips over the other side of the rail.



The intention behind this style of mounting system is that the LINX Controller can be installed in a very confined space. The ideal location is under the vehicle dashboard, such as behind the glove compartment. Other suitable locations are underneath the seats, behind a trim panel, or behind the rear seats in a ute/pick up.

CONNECTING POWER

The LINX Controller should be connected to the vehicle main battery. Using a multimeter check for approximately 12.7V (engine not running) to confirm the battery is in good condition.

Using the provided wiring harness, part number 180423, run the wiring from the battery end which already has the terminals and fuse holder assembled, to the LINX Controller end which is unterminated. This way the unterminated end can pass through rubber grommets and small holes, and be extended or shortened at the LINX Controller end if required.

Position the ring terminal with black heat shrink near the negative battery terminal, and position the ring terminal with red heat shrink near the positive battery terminal. Neatly run the wiring harness from the battery to the LINX Controller, making sure it can be secured with cable ties at 200mm intervals, grouped together with a vehicle factory wiring harness if possible and avoiding hot or moving parts that could damage the harness.

Determine if the wiring harness needs to be extended or can be shortened, ensuring that it can be connected to the battery and LINX Controller at both ends without tension on the wire to prevent fatigue and damage to the terminals.

If the wiring harness needs to be extended, ensure the additional wire used is an equivalent or larger wire gauge than the existing 1.25mm² (16AWG) wire.

Crimp the terminals onto the wire as described above in the wiring tech note. Connect the power positive wire (red) to terminal A1, and the ground negative wire (black) to terminal A2.

NOTE:

At this stage it is a good idea to check if the LINX Controller is powered on before doing any further wiring. To complete this, you will need to turn on the LINX Display and then Bluetooth pair the LINX Display and LINX Controller (please see next page).



BLUETOOTH PAIRING THE DISPLAY WITH CONTROLLER

Access the **BLUETOOTH SETTINGS** by:

1. Open up the **APP DRAWER**

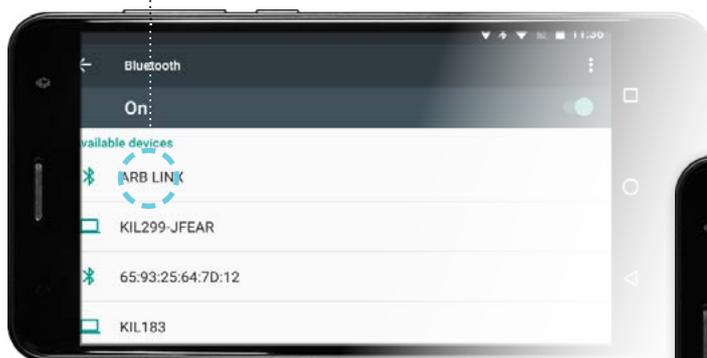


2. Tap **SETTINGS** and select **BLUETOOTH**



To pair with LINX:

1. Tap 'ARB LINX' from the available devices.



2. Once paired, the LINX Display screen should change to the main split screen view, and be displaying the vehicle's battery voltage



NOTE:

Once the Display and Controller have been Bluetooth paired, the LINX Controller will become invisible to all other devices.

CONNECTING TO VEHICLE AUTOMATION INPUTS

Using the **180426** (LINX Inputs Wiring Harness) provides the LINX with pickups from the following vehicle circuits: ACC power, parker light/low beam illumination, high beam illumination, reverse.

Always connect all inputs for maximum LINX automation functionality.

ACC PICKUP

The ACC power pickup can be taken from the ARB compressor wiring harness (red/yellow) which also requires ACC power. If an ARB compressor isn't installed then ACC power pickup location will be different for every vehicle, but a good starting point is cigarette lighter/12V sockets, or other factory dashboard switches for things such as fog lights.

PARKER LIGHT/LOW BEAM PICKUP

The parker light/low beam pickup can again be taken from the ARB compressor wiring harness (blue/white) which has illumination for the dashboard switches. If an ARB compressor isn't installed then this will be different for every vehicle, but a good starting point is from other factory dashboard switches that also have illumination.

HIGH BEAM PICKUP

The high beam pickup can be taken from the back of the headlight, as it is with the various ARB driving light looms. If driving light loom is already installed then the same high beam pickup can be used.



Note with negatively switched headlights, the pickup should come from the negative switched side of the light globe. The input pickup will need to be configured as described in the following section.

REVERSE PICKUP

The reverse pickup location will be different for every vehicle but is usually found easiest at the vehicle tail lights.

CONNECTION TABLE

DESCRIPTION	WIRE COLOUR	CONTROLLER TERMINAL CODE
ACC power pickup	Grey / Red stripe	G1
Parker / Low Beam pickup	Grey / Yellow stripe	G2
High Beam pickup	Grey / Blue strpe	G3
Reverse Light pickup	Grey / Purple stripe	G4

CONFIGURING NEGATIVELY SWITCHED INPUTS

The input pickups are configured as positively switched by default. This means that 0V at the input is treated as off, and 12V at the input is treated as on. If any of the input pickups are negatively switched (12V is off, and 0V is on), then they will need to be configured from the LINX Display.

The Input Configuration Codes need to be entered according to the following table:

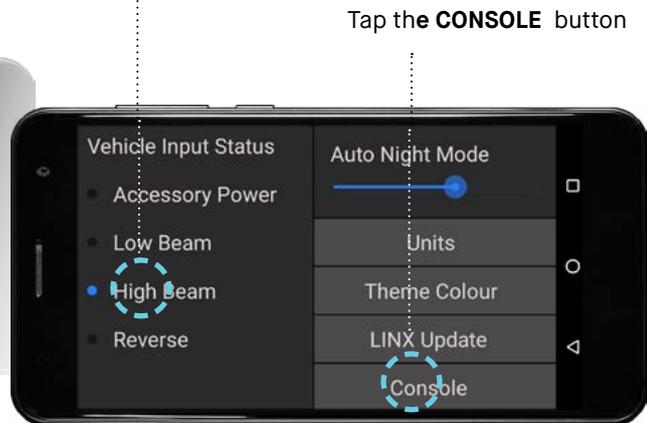
NEGATIVELY SWITCHED INPUT	INPUT CONFIGURATION CODE
Reset all inputs to positively switched	IC000
Parker / Low Beam negatively switched	IC001
High Beam negatively switched	IC002
Reverse light is negatively switched	IC003
Nissan NP300 headlight configuration	IC004

Note: the reset code IC000 is used if an incorrect configuration code is entered.

The following example shows configuring a vehicle with high beam headlights which are negatively switched. This is performed with the headlights off.

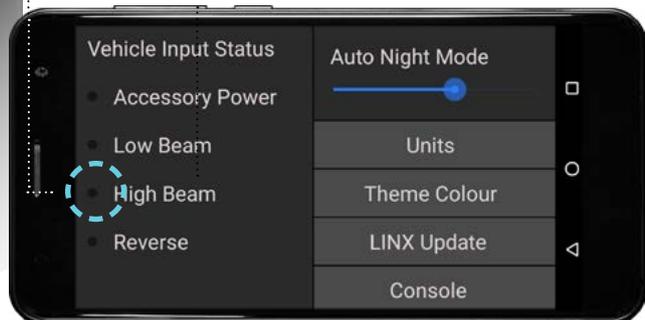
1. From the main icon screen, tap **SETTINGS**.

2. Notice that the Vehicle Input Status for High Beam shows them as being on even though they are off.



1. A new window "Enter Console Command" will open. Tap near the cursor to open the keyboard. Type in the appropriate code from the table. Tap 'Done' and 'Execute.'

2. Check that the Vehicle Input Status for High Beam is now correctly shown as off.



INTEGRATION WITH ARB COMPRESSOR WIRING HARNESS

Using the 180420 (LINX Compressor Patch Wiring Harness) allows the LINX to patch into the existing ARB compressor wiring harness. This provides the LINX with pickups from the Air Locker switches, and outputs to control the compressor and Air Locker Solenoids.

Connect the wiring as follows:

DESCRIPTION	WIRE COLOUR	CONTROLLER TERMINAL CODE
Front Airlocker Solenoid	Green / White stripe	B2
Rear Airlocker Solenoid	Yellow / White stripe	B4
Compressor relay	Red / White stripe	B5
Front Airlocker switch	Green	G5
Rear Airlocker switch	Yellow	G6



BATTERY VOLTAGE MONITOR CONNECTION

Up to three battery voltages can be monitored. The main battery (battery 1) voltage is already monitored through the power connection. The other two batteries can be connected using terminals H1 and H2.

In the LINX App these will be battery 2 and 3 respectively.

DESCRIPTION	WIRE COLOUR	CONTROLLER TERMINAL CODE
Battery 1	Red	A1
Battery 2	User supplied	H1
Battery 3	User supplied	H2



SWITCHBOARD CONNECTION

The ARB LINX switchboard module has been designed to replace all of your aftermarket accessory switches.

CONNECTION TO ARB DRIVING LIGHT LOOM

For connection to ARB driving light loom the following steps must be taken

1. Unplug the bullet connectors on the black/white wire and black earth wire, and remove the switch and fuse from the loom.
2. Connect the black/white wire from the relay to the required switchboard output (C3, C4, C5, D1, D2, D3) as per the wiring tech note. HINT: Wiring terminals and insulator sleeves are available in 7450105 (ARB LINX Terminal Kit).
3. The black earth wire that used to run from the relay to the switch is no longer required and can be removed from the loom.

NOTE: Do not remove the short earth wire with eye terminal, as this is needed to earth the relay.

CONNECTION TO OTHER ACCESSORIES

For connection to other accessories ARB recommends the use of 180422 (LINX Relay Harness).

Simply connect the green/white wire to the required switchboard output (C3, C4, C5, D1, D2, D3) as per the wiring tech note, and join the rest of the accessory wiring to the appropriate flying leads in the relay block.



NOTE: Pins C3, C4 & C5 have been connected to 180422 (LINX Relay Harness) in the above image.

CONNECTING THE USB CABLE

The USB connection can be used to power and charge the LINX Display, and provide the communications channel between the LINX Controller and LINX Display.

The provided USB Cable (7450104), has a USB A connector at one end for connection to the LINX Controller, and a USB micro B (back angled) connector at the other end for connection to the LINX Display.

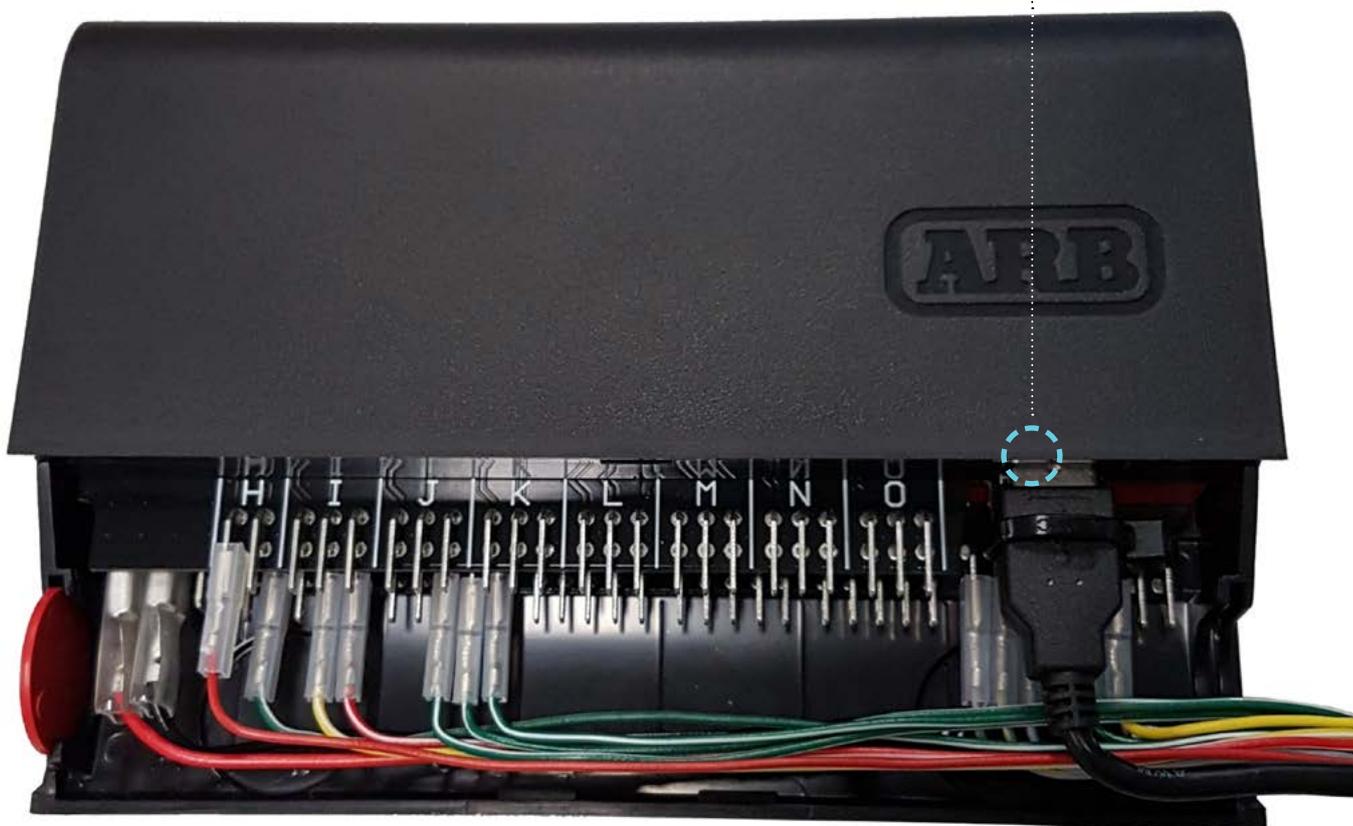
The USB cable should be secured to the LINX Controller using a cable tie as shown below. This prevents vibration or cable strain from damaging the USB connection.

NOTE:

The LINX Display can also be connected to an alternate USB power socket. In this case, the communications channel will be via Bluetooth only.

- USB cable
- Alternative USB power socket.

USB CABLE



INSTALLING DISPLAY MOUNT

The LINX Display Gimbal Mount can be fixed to a vehicle specific A-pillar bracket (which is available separately) or directly screwed to a dashboard if desired.

Firstly, the mount must be disassembled as shown below:

STEP ONE

Unscrew the thumb nut and remove the centre bolt.



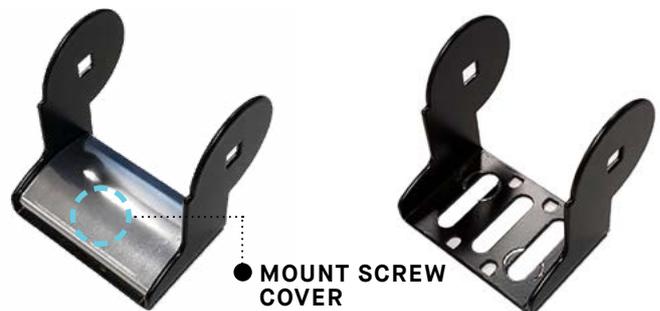
STEP TWO

Hold the steel bracket in one hand, and the pivot assembly in the other hand. Then pull them apart.



STEP THREE

Remove the mount screw cover from the steel bracket.



STEP FOUR

Screw or bolt the steel bracket to the dashboard, console, or LINX A-Pillar bracket.

STEP FIVE

Reassemble by following the steps in reverse.



INSTALLING OPTIONAL LINX ACCESSORIES

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LINX PRESSURE CONTROL KIT

The LINX Pressure Control Kit (7450107) provides the capability to control the air pressure in any connected item. It is required hardware for accessory inflation/deflation (Compressor Module – Pressure Control Option) and it is also used for controlling air suspension pressures (Air Suspension Module).

LINX Pressure Control Kit contains a LINX PRV (Pressure Regulating Valve), a LINX Pressure Transducer, and 2 associated wiring looms.

● **WIRING HARNESS, LINX TRANSDUCER**
PRODUCT CODE: 180421

WIRING HARNESS, LINX SOLENOID PAIR ●
PRODUCT CODE: 180425

● **PRV (PRESSURE REGULATING VALVE)** ●
PRODUCT CODE: 180105

● **PRESSURE TRANSDUCER**
PRODUCT CODE: 180902



GENERAL INSTALLATION PROCEDURE

1. Connect an inlet port of the LINX PRV to a compressed air supply (e.g., an output port of an ARB Air Compressor).
2. Install the LINX pressure transducer into an output port of the LINX PRV.
3. Connect an output port of the LINX PRV to your air filler hose, air accessory, or isolation valves.
4. Connect the solenoid harness.
5. Connect the transducer harness.
6. Connect the body ground.
7. Route and connect both harnesses to the LINX controller.

LINX PRV PORT IDENTIFICATION



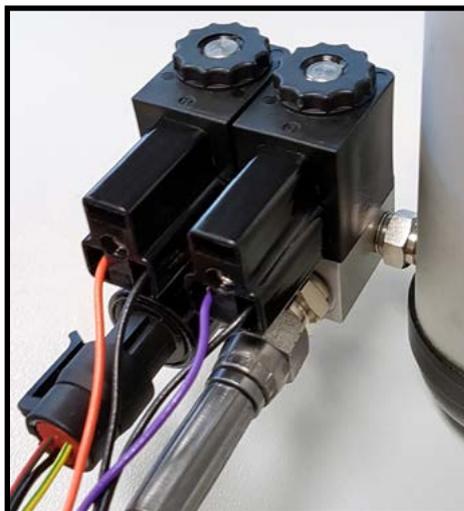
1. The LINX PRV must be connected to a compressed air source that has a higher minimum output pressure than the maximum required of any connected accessory. The LINX PRV comes with a 1/8 BSPT nipple pre-installed. If desired this can be relocated to the input port on the opposite side by removing the threaded plug.

Notes: Always use thread sealant or PTFE tape to seal all tapered threaded joints. O-ring sealed parallel threaded joints do not require sealant or tape. All ARB Air Compressors come with threaded ports configured to connect to the threaded nipple.

2. The LINX pressure transducer can be screwed into any of the three available LINX PRV output ports (labelled above) by removing and discarding the threaded plug. Choose the output that best suits your particular installation.

Notes: The LINX Pressure Transducer does not require thread sealant. **Do not over tighten.**

3. Connect any of the remaining two output ports of the LINX PRV to the air lines or accessories to be controlled by the pressure control kit.
4. Attach the two connectors of the LINX Solenoid Pair wiring harness (180425) to the two solenoid coils of the LINX PRV. Note that the connector with the purple wire should be matched only with the deflate valve coil (shown on the right directly opposite to the exhaust fitting). Retain the connectors using the supplied screws.
5. Connect the transducer connector of the LINX Transduce wiring harness (180421) to the transducer by inserting it until it clicks in.
6. Connect the ring terminal (black wire) to a body ground (e.g., bolt or screw into body steel).
7. Route both wiring harnesses to the controller making sure not to leave the wires under tension after they are secured. Trim off excess length or lengthen harnesses if necessary. Terminate (see Wiring Termination tech note) and connect both harnesses to the LINX controller using the following table:



CONNECTION TABLE

DESCRIPTION	WIRE COLOUR	CONTROLLER TERMINAL CODE
Sensor power	Red / Green stripe	K1
Sensor signal	Yellow / Green stripe	K2
Sensor ground	Black	K3
Solenoid pair, inflate	Orange	C1
Solenoid pair, deflate	Purple	C2

LINX AIR SUSPENSION ISOLATION KIT

The LINX Air Suspension Isolation Kit (7450109) is installed as an upgrade to an existing LINX Pressure Control Kit (7450107), and it provides the capability to isolate accessories for the purpose of varying the pressure between them.

A good example of this is in using separate air bag/air spring pressures to load level a vehicle front to back and/or side to side.

Note: The following hardware requirements for Air Suspension configuration:

CONFIGURATION	LINX HARDWARE REQUIREMENT
One airline joined between any number of air bags/springs equally where all air bags/springs share the same pressure and a linked path between them.	1 x 7450107 (isolation kit not req'd)
One airline split to control 2 air bag/spring pressures independently with no pathway between them	1 x 7450107 1 x 7450109
One airline split to control 3 or 4 air bag/spring pressures independently with no pathway between them	1 x 7450107 2 x 7450109

Installing this module requires that the LINX Pressure Control Kit (7450107) is pre-connected to the air supply (refer to installation section).

WIRING HARNESS, LINX SOLENOID PAIR ●
PRODUCT CODE: 180425



2 x SOLENOID, 12V 2/2, DAISY CHAINABLE
PRODUCT CODE: 180106



The threaded nipple of the first solenoid should be screwed into the most suitable PRV output port (i.e., one of the free output ports of the LINX Pressure Control Kit). Or alternatively they can be remote mounted by connecting an airline between a PRV output port and one of the 2 input ports (labelled #1) of the solenoids.

The second solenoid is attached to the first by removing the threaded plug from an input port of the first and screwing the threaded nipple of the second into the port.

Notes:

- Always use thread sealant or PTFE tape to seal all tapered threaded joints.
- O-ring sealed parallel threaded joints do not require sealant or tape.
- All ARB Air Compressors come with threaded ports configured to connect to the threaded nipple (1/8 BSPT/ BSPP).
- Isolation kits for Air Suspension control cannot be connected to a LINX Pressure Control Kit that is being used for compressor pressure control (e.g., tyre inflation). Air Suspension control requires its own LINX Pressure Control Kit.

CONFIGURATIONS

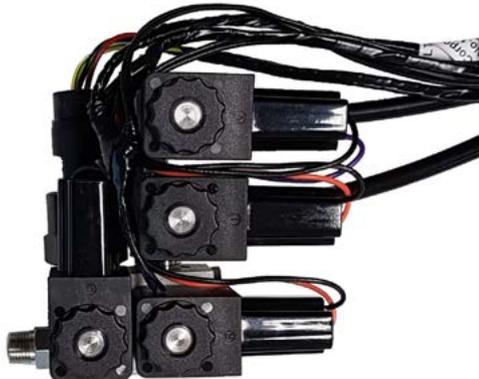
The figures below demonstrate how configurable the LINX PRV and LINX Air Suspension Kit are due to the daisy chainability and multiple outlet ports.

Many more arrangements are possible so experiment with the possibilities to find the arrangement that best suits your installation.

LONG NARROW CONFIGURATION



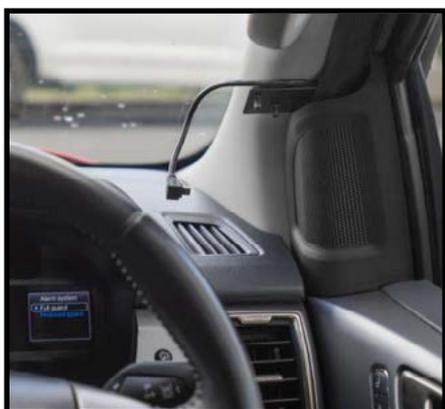
SHORT CONFIGURATION



A-PILLAR BRACKETS

Designed to suit a large range of popular 4WD's the LINX A-Pillar Brackets provide a secure location for the LINX Display Screen that is in easy reach of the driver, while avoiding having to make additional holes in the vehicle dashboard.

Utilising the LINX Display Gimbal Mount, the display can be orientated and set in the desired position.



PART #	DESCRIPTION	MAKE	MODEL	YEAR
7450106	Linx A-Pillar Bracket Kit 1	Toyota Toyota Toyota Toyota Toyota Toyota Mitsubishi	Hilux Hilux 2015 on Prado 120 Prado 150 Fortuner 79 series 5 star ANCAP Triton	2005-2015 2015-on All All 2015 on 2016 on 2016 on
7450110	Linx A-Pillar Bracket Kit 2	Toyota	200 series Land Cruiser	All
7450111	Linx A-Pillar Bracket Kit 3	Ford Ford Mazda Nissan Nissan Volkswagen	Ranger Everest BT-50 Patrol Y62 Patrol GU Amarok	All
7450112	Linx A-Pillar Bracket Kit 4	Jeep	JK Wrangler	All
7450113	Linx A-Pillar Bracket Kit 5	Toyota	79 Series single cab (pre ANCAP) 79 Series dual cab	All

PART #	DESCRIPTION	MAKE	MODEL	YEAR
7450114	Linx A-Pillar Bracket Kit 6	Nissan	Navara / NP300	2014-on
7450115	Linx A-Pillar Bracket Kit 7	Toyota	Tacoma	2016-on
7450116	Linx A-Pillar Bracket Kit 8	Jeep	JL Wrangler	All

A-PILLAR BUCKET KIT 1 (745106)



INSTALLATION STEPS

STEP ONE:

Expose the A-pillar pinch weld seam by pulling the door seal away in the area shown.



STEP TWO:

Position the A-pillar Bracket in a suitable location along the A-pillar pinch weld seam. Mark the position with tape.

Note: Consider positioning it as low as practical to avoid any chance of blocking the drivers view of the road, avoiding SRS airbags, but still making sure that the LINX Mount and Display doesn't contact the vehicle dashboard or door trim when the door is closed.



STEP THREE:

Hold the A-pillar Bracket on the outer side of the pinch weld seam to mark the position of the holes to drill.



STEP FOUR:

Drill the holes with a 4.5mm drill bit. Take care not to scratch the A-pillar paintwork with the drill chuck, or drill through into anything that might be located in the A-pillar such as wiring, SRS air bags, plastics, etc.



STEP FIVE:

Loosely assemble the LINX Display Gimbal Mount onto the A-pillar Bracket using the M6 bolts and nuts provided in the kit and hand tighten.



STEP SIX:

Then re-position the A-pillar Bracket in between the pinch weld seam and the interior plastic trim panel, then insert the M4 Torx head screws in from the outside and tighten using a T-20 Torx key or driver bit.

At this step you can also tighten up the M6 nuts securing the Linx Display Gimbal Mount to the A-pillar Bracket and reassemble it.



STEP SEVEN:

Partially reinstall the door seal and mark the section that interferes with the A-pillar Bracket.



STEP EIGHT:

Then using tin snips cut a section from the middle web of the door seal.

**STEP NINE:**

Complete the installation by reinstalling the door seal.



A-PILLAR BRACKET KIT 2 (7450110)



The installation of all the A-pillar Bracket Kits are similar, but the Toyota 200 series Landcruiser installation has a few addition steps.

INSTALLATION STEPS

STEP ONE:

Unbolt and remove the grab handle from the A-pillar.

STEP TWO:

Remove the A-pillar trim panel.

Then, follow Step 2 through to Step 9 from A-Pillar Bracket Kit1. All these steps are done with the trim panel removed. Follow these remaining steps to discretely modify the trim panel.

STEP THREE:

Loosen both the M4 Torx head screws, and remove the lower screw, allowing the A-pillar bracket to pivot. The trim panel can now be temporarily reinstalled.



STEP FOUR:

Mark the position of the A-pillar bracket on the trip using tape.



STEP FIVE:

Remove the trim panel again. Carefully cut the trim panel between the tape marks and along the line in the plastic as shown

**STEP SIX:**

Reinstall the trim panel.

STEP SEVEN:

Pull the door seal back with one finger and insert the lower M4 Torx head screw and tighten both screws.

STEP EIGHT:

Reinstall the grab handle to the A-pillar.

A-PILLAR BACKET KIT 3 (7450111)



For the installation of this bracket follow the same procedure as A-Pillar Bracket Kit 1.

**POSITIONING FOR FORD RANGER/
EVEREST:**

To clear the door speaker box it is necessary to assemble the A-pillar bracket and LINX Display Gimbal Mount as shown here. Loosely assemble them using the M6 bolts and nuts provided in the kit and hand tighten.



As shown here the Ford Ranger and Ford Everest installation is designed to fit in the gap between the door frame and the door speaker box.



A-PILLAR BUCKET KIT 4 (7450112)



INSTALLATION STEPS

STEP ONE:

Remove the A-pillar upper trim panel by unscrewing the fastener shown, and the



● UPPER TRIM PANEL

STEP TWO:

Remove the lower A-pillar trim panel by pulling it away from the windscreen.



● LOWER TRIM PANEL

STEP THREE:

Position the A-pillar Bracket as shown. It should be against a flat surface, below the rib/lump in the pinch weld seam as shown.

Note: it shouldn't be so low as to interfere with the retaining clip on the back of the trim panel.



STEP FOUR:

Hold the A-pillar Bracket on the outer side of the pinch weld seam to mark the position of the holes to drill.



STEP FIVE:

Drill the holes with a 4.5mm drill bit. Take care not to scratch the A-pillar paintwork with the drill chuck, or drill through into anything that might be located in the A-pillar such as wiring, SRS air bags, plastics, etc.



STEP SIX:

Then re-position the A-pillar Bracket on the inner side of the pinch weld seam and insert the M4 Torx head screws in from the outside and lightly and temporarily tighten using a T-20 Torx key.



STEP SEVEN:

Measure and record the position of each hole from the A-pillar seam weld, and height above the dash.



STEP EIGHT:

Reinstall the A-pillar trim panel and measure the overhang as shown.

Note: The bracket might interfere with the clip on the back of the trim panel while trying to reinstall it. So to facilitate this remove the lower Torx head screw, allowing the bracket to rotate out of the way.



STEP NINE:

Using the recorded measurements mark the hole positions on the A-pillar trim panel. Remember to add the overhang measurement to the horizontal measurements.

For example: From the previous photos the first hole position will be 24mm + 5mm = 29mm from the edge of the trim panel, and 48mm above the dashboard.



STEP TEN:

Drill a small pilot hole through the trim panel and check that your positions are correctly centred over the holes in the Linx A-pillar Bracket.



STEP ELEVEN:

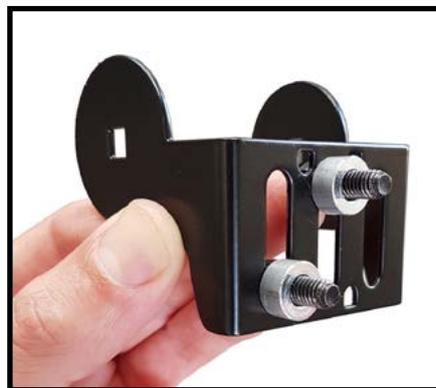
Open up the holes to 14mm to clear the 12mm spacer washers provided in the kit (7450410). Then reinstall the A-pillar trim panel, and insert the lower Torx head screw and tighten both of them.



STEP TWELVE:

Assemble the LINX Gimbal Mount Bracket with the M6 bolts and space washers as shown.

Note: RHD installation shown. For LHD installation shift the bolts across 1 slot.



STEP THIRTEEN:

Assemble the LINX Gimbal Mount Bracket with the M6 bolts and space washers as shown.



STEP FOURTEEN:

Reassemble the LINX Display Gimbal Mount with the long through bolt inserted from the door side and the thumb nut on the central side. This is ensure there is clearance between the Mount the door when closed.

Note : RHD installation shown. For a LHD installation reverse the installation of the through bolt and thumb nut.



A-PILLAR BRACKET KIT 5 (7450113)



INSTALLATION STEPS

STEP ONE: Expose the A-pillar pinch weld seam by pulling the pinch weld PVC trim away in the area shown.



STEP TWO: Hold the A-pillar Bracket to the LINX Display Gimbal Mount as shown. Note the orientation of the flange relative to the gimbal mount.



STEP THREE: Position the A-pillar Bracket in a suitable location along the A-pillar pinch weld seam. Mark the position with tape.

Note: Consider positioning it as low as practical to avoid any chance of blocking the drivers view of the road, avoiding SRS airbags, but still making sure that the Linx Mount and Display doesn't contact the vehicle dashboard or door trim when the door is closed.



STEP FOUR: Turn the A-pillar Bracket upside down, then hold it on the outer side of the pinch weld seam to mark the position of the holes to drill.



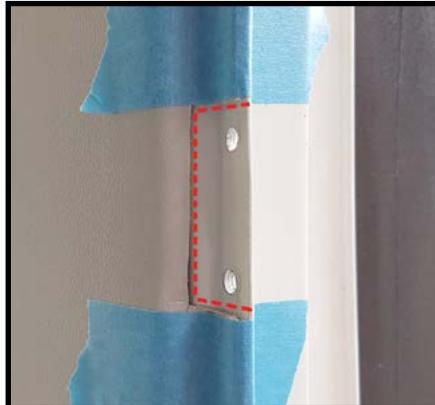
STEP FIVE:

Drill the holes with a 4.5mm drill bit. Take care not to scratch the A-pillar paintwork with the drill chuck, or drill through into anything that might be located in the A-pillar such as wiring, SRS air bags, plastics, etc.



STEP SIX:

The Linx A-pillar Bracket must be fixed up against the pinch weld seam, without the plastic trim panel sandwiched in between. Carefully cut the trim panel between the tape marks as shown. Note: This cut line will be concealed by the pinch weld PVC trim.



STEP SEVEN:

Loosely assemble the LINX Display Gimbal Mount onto the A-pillar Bracket using the M6 bolts and nuts provided in the kit and hand tighten.



STEP EIGHT:

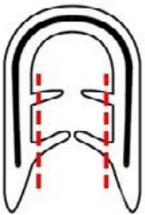
Then re-position the A-pillar Bracket on the inside of the pinch weld seam, then insert the M4 Torx head screws in from the outside and tighten using a T-20 Torx key or driver bit.

At this step you can also tighten up the M6 nuts securing the LINX Display Gimbal Mount to the A-pillar Bracket and reassemble it.



STEP NINE: Complete the installation by reinstalling the pinch weld PVC trim.

Note: to allow the pinch weld PVC trim to sit and flat over the screws, cut away the internal fingers in this area.



A-PILLAR BRACKET KIT 6 (7450114)



For the installation of this bracket follow the same procedure as A-Pillar Bracket Kit 1.

POSITIONING FOR NISSAN NAVARA NP300:

It is necessary to assemble the A-pillar bracket and LINX Display Gimbal Mount as shown here.

Loosely assemble them using the M6 bolts and nuts provided in the kit and hand tighten.



The final installation position on a Nissan Navara NP300 is shown here for reference. It is designed to be installed low on the A-pillar without contacting the dashboard.



A-PILLAR BRACKET KIT 7 (7450115)



For the installation of this bracket follow the same procedure as A-Pillar Bracket Kit 1.

POSITIONING FOR TOYOTA TACOMA (2015-ON):

Loosely assemble the A-pillar bracket and LINX Display Gimbal Mount as shown, using the M6 bolts and nuts provided in the kit. Hand tighten.



The final installation position on a Toyota Tacoma (2015-on) is shown here for reference. It is designed to be installed low on the A-pillar without contacting the dashboard.



A-PILLAR BRACKET KIT 8 (745016)

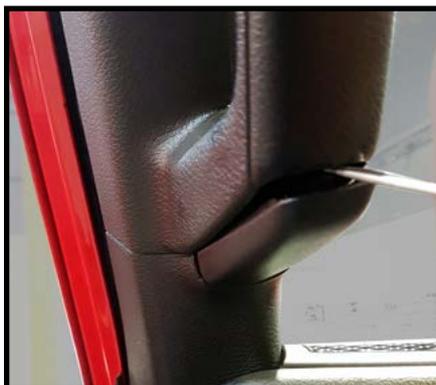


INSTALLATION STEPS

STEP ONE:

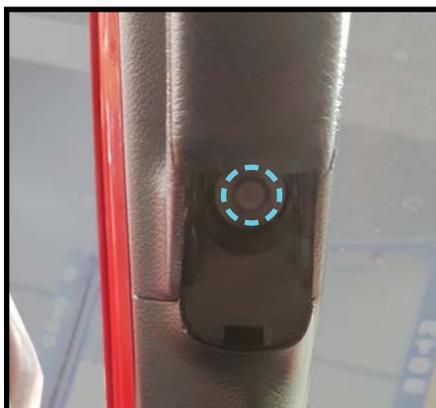
The A-pillar bracket is designed to be installed on the lower end of the driver side grab handle. Lever the lower bolt cover off with a small screwdriver.

Note: LHD installation is shown here. Both LHD and RHD brackets are provided in the kit but you only need to use the appropriate one. The LHD bracket can be identified in the picture above by the extra notch.



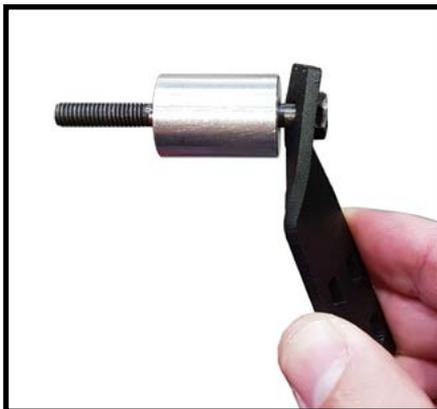
STEP TWO:

Using a 10mm socket, unscrew and remove the bolt that is highlighted in the picture.



STEP THREE:

Assembly the A-pillar bracket, spacer and bolt from the kit as shown.



STEP FOUR:

Insert the assembly into the pocket that the factory bolt was remove from. The spacer should sit into the round pocket, the profile of the bracket should locate neatly and align the mounting face with dashboard. Tighten with an 10mm socket.



STEP FIVE:

Using the provided M6x10mm bolts and flange nuts attach the LINX Display Gimbal Mount as shown.



STEP SIX:

Reassemble the LINX Display Gimbal Mount to complete the installation.



COMPLIANCE INFORMATION

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COMPLIANCE INFORMATION

EUROPE - EU DECLARATION OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer.

This declaration relates to these products:
LINX 1.0

The products are in conformity with the following standards or standardized documents:

ETSI EN 301 489-17 V3.1.1:2017
ETSI EN 301 489-1 V2.1.1:2017
ETSI EN 300 328 V2.1.1:2016
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013

According to the provisions of the directives:

2014/53/EU (Radio Equipment Directive)
2014/30/EU (Electromagnetic Compatibility Directive)
2014/35/EU (Low Voltage Directive)

Technical file at:
ARB Corporation Ltd, 42-44 Garden St, Kilsyth, Victoria, Australia

Signed for and on behalf of ARB Corporation Ltd



Andrew Brown
Managing Director
Melbourne, March 2018

USA - FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTIONS

Changes or modifications made to this device that are not expressly approved by ARB Corporation Ltd may void the user's authority to operate the equipment. This device must not be co-located or operated in conjunction with any other antenna or transmitter.

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

ENVIRONMENTAL PROTECTION

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

SETUP COMPLETE?

Find out how you can unleash the full power of your brand new LINX device...

[VIEW OPERATIONS MANUAL](#)



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