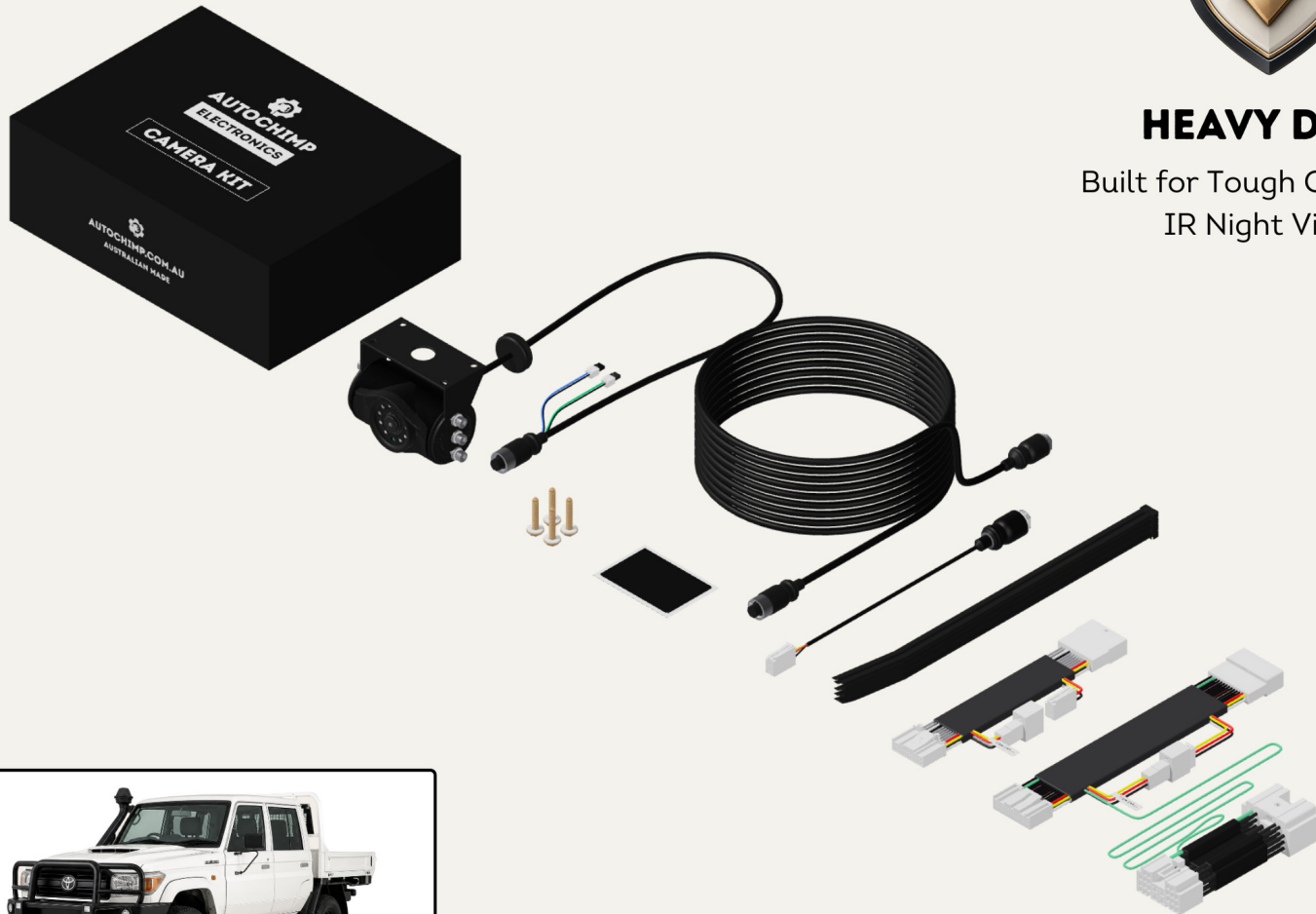


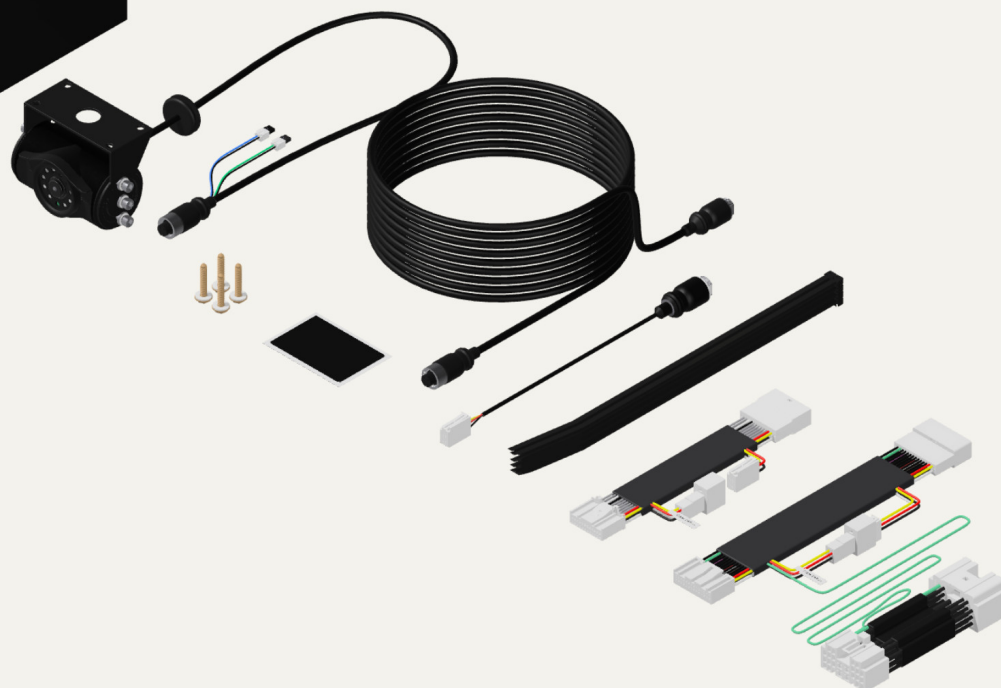


HEAVY DUTY

Built for Tough Conditions
IR Night Vision



Built for 70 Series
LandCruiser (2014 - 2023)



KIT CONTENTS

10m Extension Cable

Camera Adapter
+ Cable Ties



Heavy Duty Camera
with IR & IR Cut

4x Self-Tapping
Bolts + Waterproof
Sealing Tape

Camera & Reverse Signal
Interface Harnesses
(3x included)

SKU: AC-TOY-RC7-HEAVY

HOW IT WORKS

Includes the AutoChimp™ Heavy Duty Series camera, ready to fit.

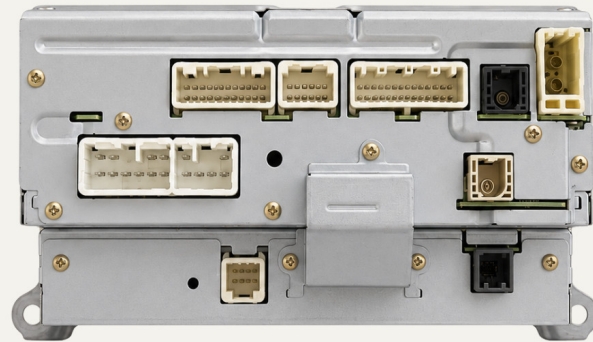
1. Camera plugs into the interface harness
2. Harness connects behind the factory stereo
3. Select reverse and the camera shows on your factory screen – automatically



Note: See the Car Specific Wiring Kit slide and Connection Guide for full harness wiring.

COMPATIBLE STEREOS

The AC-TOY-RC7-HEAVY Kit is built for the factory stereo models pictured. It fits the pre-facelift Toyota LandCruiser 70 Series – 2014 to early 2023. Rear of the stereo pictured.



Supports automatic and manual transmissions and 12V vehicle electrical systems. The included Heavy Duty camera connects through the supplied adapter and interface harness. Select CVBS for the factory screen.

VEHICLE COMPATIBILITY

Suitable for Toyota Landcruiser 70 series 2014 - 2023
All variants with the following stereo and dash fascia panel.

Supports both Auto & Manual Transmission Vehicles.
Supports all variants such as Troopy, Workmate, GX, GXL, etc
Supports all engine models.



(for 2024 onwards 70 series use kit AC-TOY-RC8-RC9-HEAVY)

COMPATIBLE VEHICLES

The AC-TOY-RC7-HEAVY suits the Toyota LandCruiser 70 Series pre-facelift body shapes & dash/stereos shown below.

70 SERIES 2014-2023 (PRE FACELIFT)



Single Cab, Double Cab, Wagon and Troop Carrier, in Workmate, GX and GXL variants.

HEAVY DUTY CAMERA

Infrared Night Vision
with IR Cut for clear daytime
colour.



Heavy Duty 4 Pin Aviation
Connector

P/N: AC-HEAVY-CAM

CAMERA FEATURES

Configurable Setup:

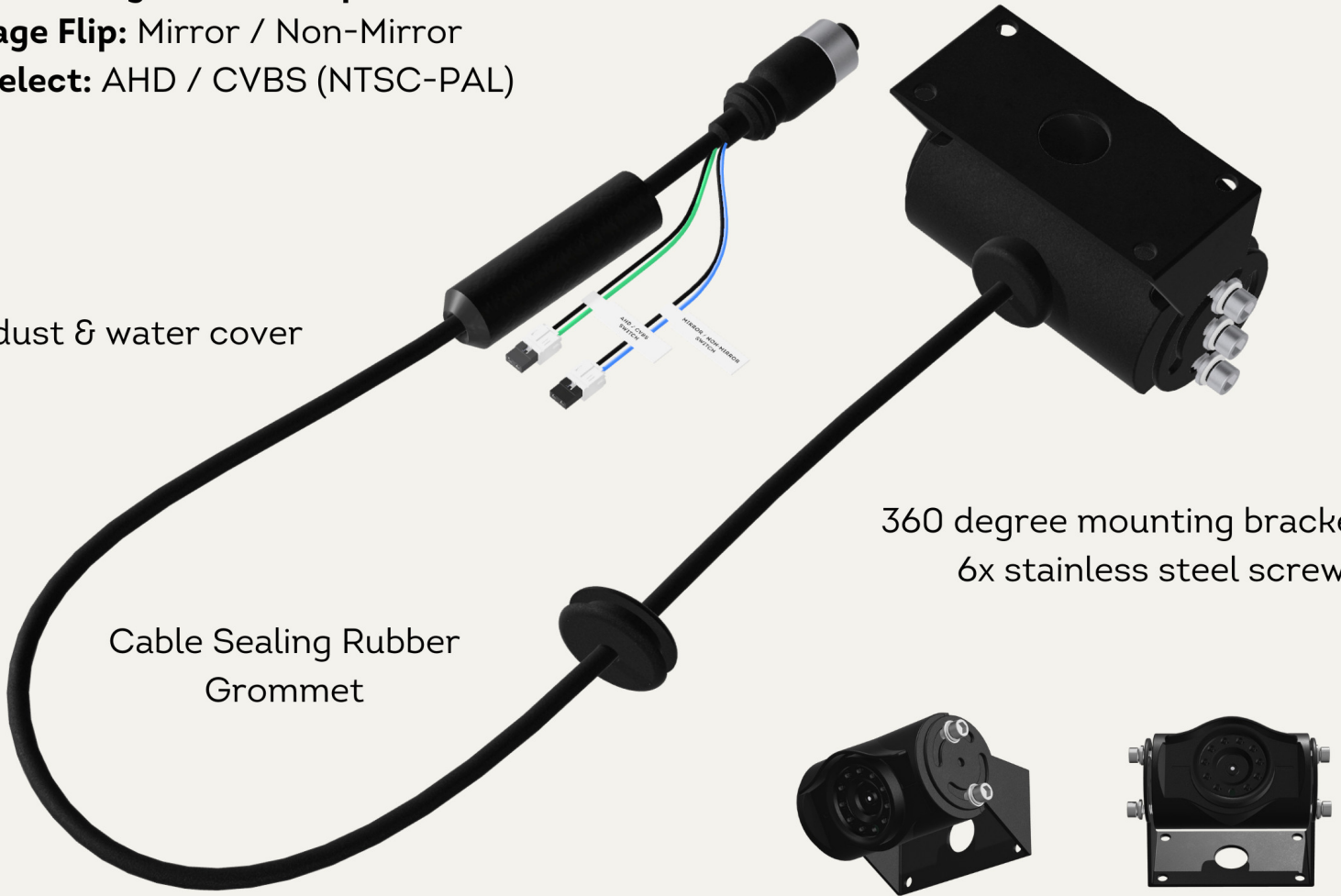
Image Flip: Mirror / Non-Mirror

Video Select: AHD / CVBS (NTSC-PAL)

Rubber dust & water cover

Cable Sealing Rubber
Grommet

360 degree mounting bracket with
6x stainless steel screws.



DISPLAY IMAGE QUALITY



AutoChimp™ Heavy Duty cameras support AHD and CVBS output. Final on-screen image quality depends on the display's supported video format and resolution.

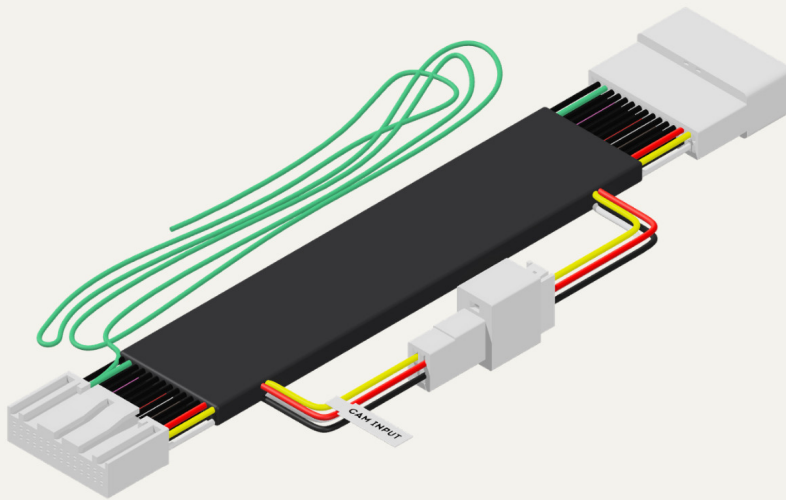
Camera are the very BEST you can display, very clear night vision & daytime.
Example on 70 Series & N80 Hilux

(note factory Toyota stereos are not HD their resolution is SD - NTSC)

DIMENSIONS

HARNESS: AC-TOY-28PIN

Adapter Harness



Cables Length: 170mm
Overall Length: 220mm

4 Pin Connector

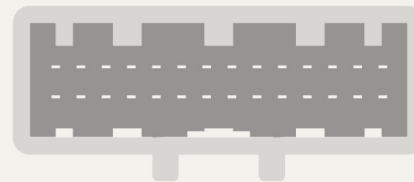


Width: 11mm
Height: 18mm



Width: 10mm
Height: 17mm

28 Pin Connector



Width: 36mm
Height: 13mm

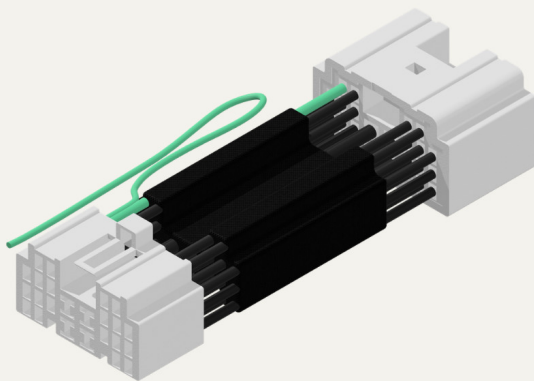


Width: 33mm
Height: 10mm

DIMENSIONS

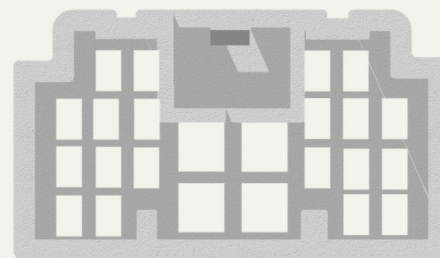
HARNESS: AC-TOY-24PIN-70SERIES

Adapter Harness

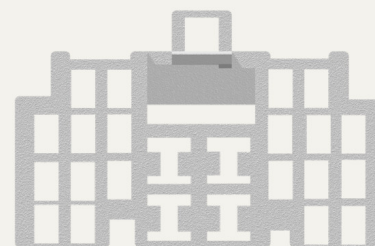


Cables Length: 120mm
Overall Length: 75mm

24 Pin Connector



Width: 42mm
Height: 26mm

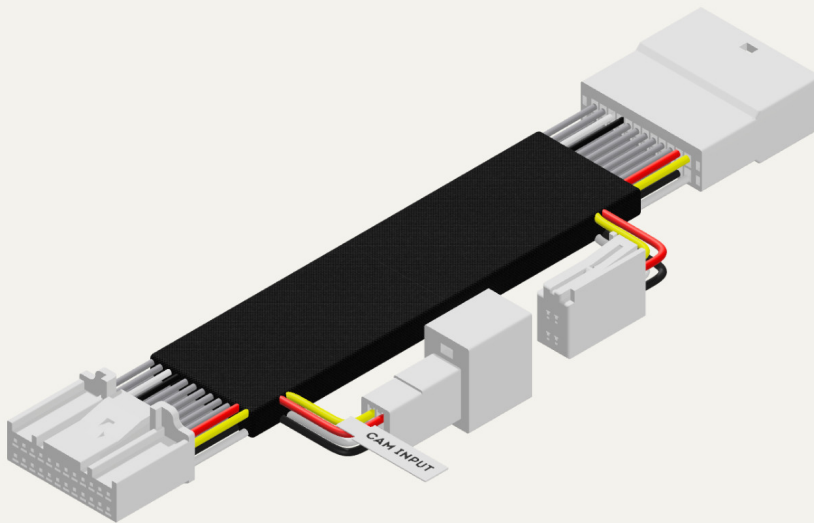


Width: 38mm
Height: 20mm

DIMENSIONS

HARNESS: AC-TOY-24PIN

Adapter Harness



Cables Length: 160mm
Overall Length: 220mm

4 Pin Connector



Width: 11mm
Height: 18mm



Width: 10mm
Height: 17mm

24 Pin Connector



Width: 31mm
Height: 12mm



Width: 28mm
Height: 9mm

CAMERA DIMENSIONS



Cable Length:
500mm

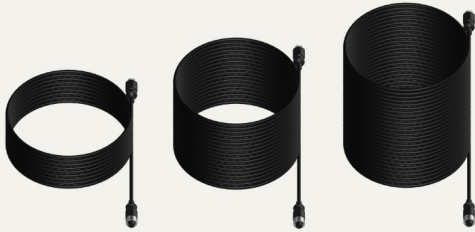
Height:
60mm Overall
45mm Camera



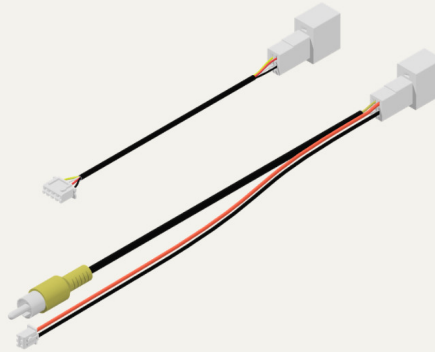
Width: 75mm
Depth: 65mm

OPTIONAL ACCESSORIES

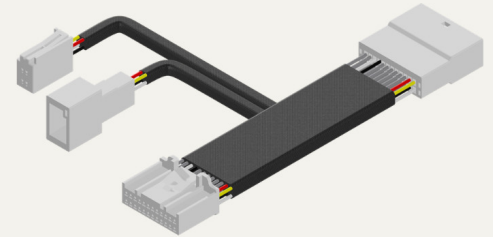
The Heavy Duty series camera has various accessories available to help with your installation.



5/10/15M Extension
Cables



Power Connectors



Vehicle Specific Adapters



OEM Style Cloth Tape



Cable Ties + Split
Tubing + Sealing Tape



Installation Tool Kit

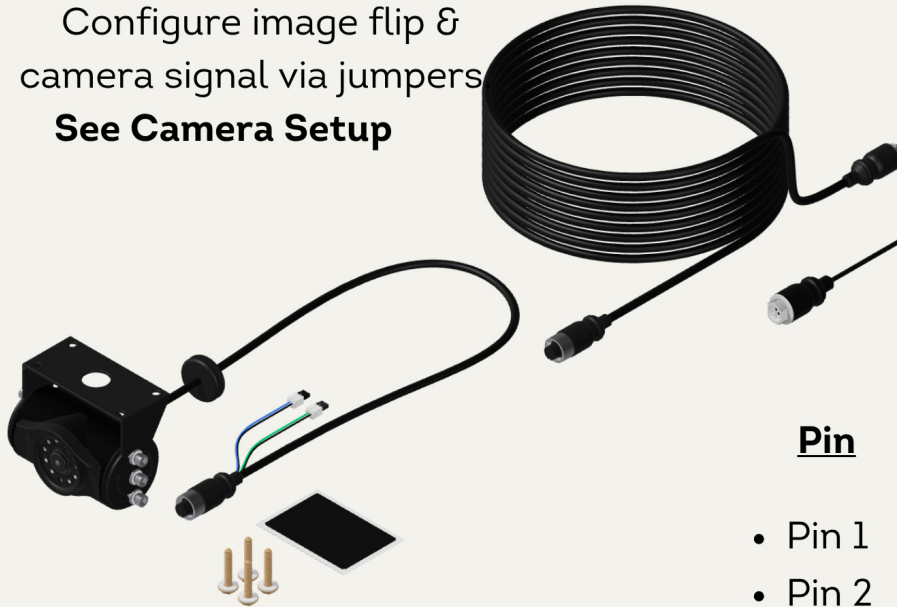
CONTENTS



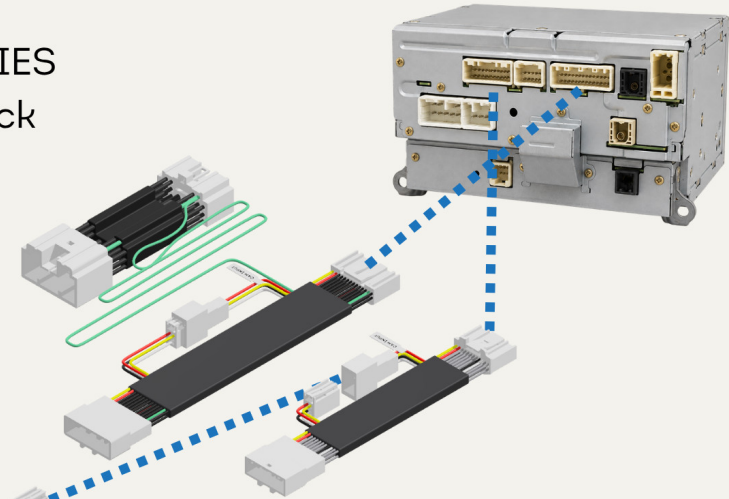
SKU: AC-TOY-RC7-HEAVY

QUICK START GUIDE

1. Mount the camera.
2. Route the camera cable.
3. Camera connects directly to the AC-TOY-24PIN interface harness.
4. **See Connection Guide.**
5. Configure image flip & camera signal via jumpers
See Camera Setup



AC-TOY-24PIN-70SERIES
connects in drivers kick
panel.



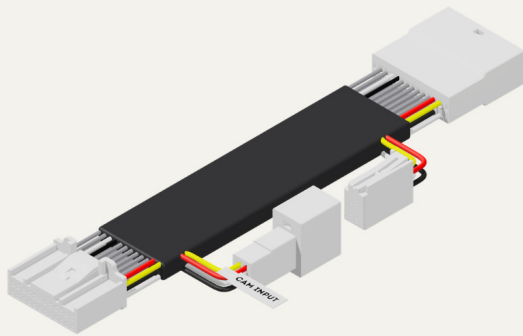
AC-TOY-28PIN + AC-TOY-24PIN
connects behind the stereo.
See Connection Guide.

<u>Pin</u>	<u>Function</u>	<u>Wire</u>
• Pin 1	6V - Power	 Red
• Pin 2	Ground / Earth	 Black
• Pin 3	Video - / Shield	 White
• Pin 4	Video + Signal	 Yellow
• Cable	Reverse 12v Input	 Green

CAR SPECIFIC WIRING KIT

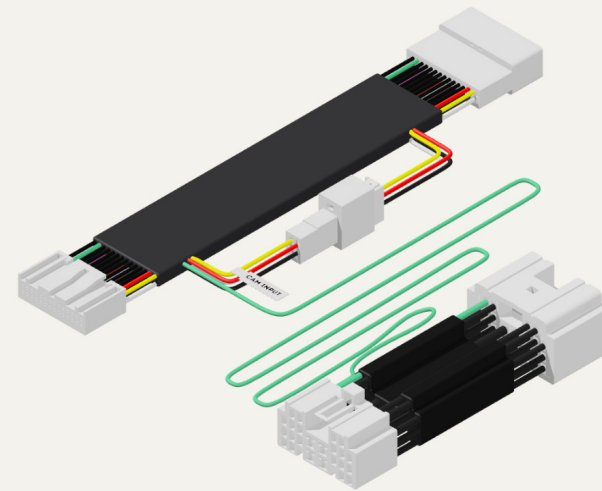
Built for the Toyota LandCruiser 70 Series – 2014 to early 2023 (pre-facelift). On these models the reverse wire isn't run to the stereo, so all three harnesses work together.

The 24-pin powers the camera, the 28-pin feeds the stereo, and the 24-pin-70Series brings the reverse signal up from the kick panel.



SKU: AC-TOY-24PIN

The camera plugs into this harness. It carries the camera's video signal and power, feeding into the system behind the stereo.



SKU: AC-TOY-28PIN

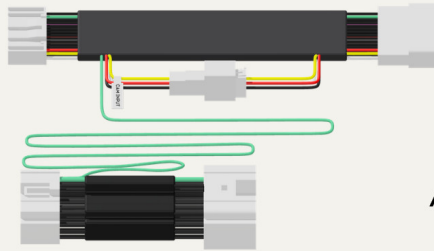
SKU: AC-TOY-24PIN-70SERIES

The 28-pin plugs in behind the stereo, and the 24-pin-70Series taps the driver's kick panel – bringing the reverse-light trigger up so the camera comes on automatically in reverse.

See the Connection Guide for each harness.

INSTALL GUIDE

AutoChimp™ Heavy Duty Camera connects directly to AutoChimp™ Camera Adapter Harness AC-TOY-24PIN which plugs in line behind the stereo.

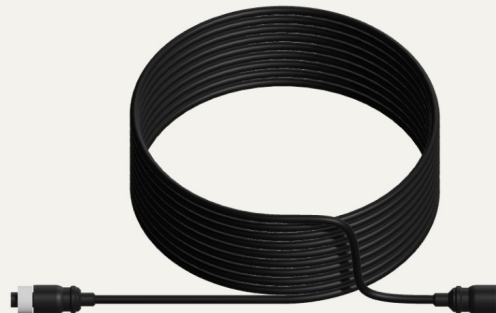


AC-TOY-28PIN ~ Install behind stereo.

AC-TOY-24PIN-70SERIES ~ Install at drivers kick panel.



AC-TOY-24PIN ~ Install behind stereo.



Power / Video Cable Extension
10m

Adapter Cable
0.3m



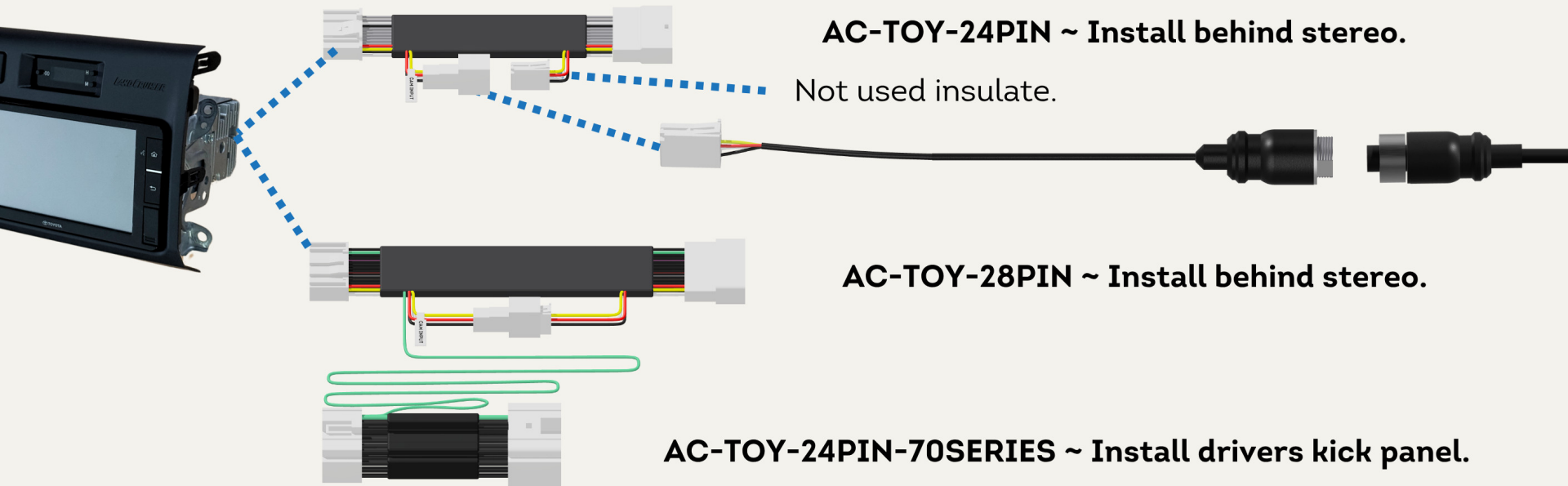
Power Cable
0.5m



HARNESS INSTALL LOCATIONS

Each harness plugs inline – the OEM connectors plug into the back of the harness and all other wires pass straight through, nothing cut. Two install behind the stereo and one at the driver's kick panel.

Installation locations are as below:



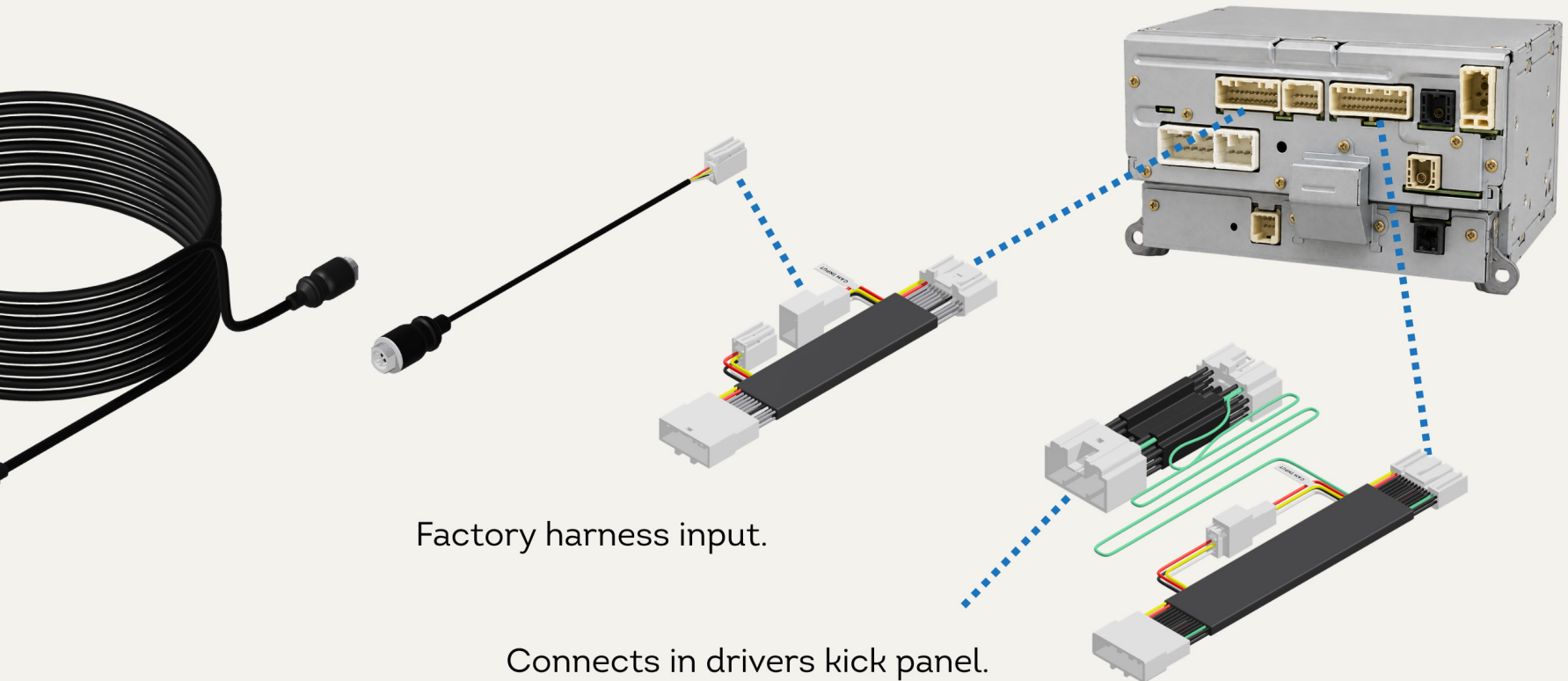
Note: There may be no harness that plugs into the car side of AC-TOY-24PIN, this is ok, certain models didn't have a car side. Still use the AC-TOY-24PIN into stereo as this is the video input.

CONNECTION GUIDE

LOCATION: REAR OF STEREO

HARNESSES: AC-TOY-28PIN + AC-TOY-24PIN

The AC-TOY-24PIN connects directly to the rear of the stereo. Plug the camera into the labelled CAM INPUT 4-pin connector on interface harness. The AC-TOY-28PIN with green wire plugs into the radio, which is fed from the kick panel harness AC-TOY-24PIN-70SERIES.



CONNECTION GUIDE

LOCATION: DRIVER'S KICK PANEL

HARNESS: AC-TOY-24PIN-70SERIES

The 70 Series has the factory reverse signal wiring already run behind the driver's kick panel. Remove the kick panel cover to expose the loom, unplug the factory connector shown, and fit the AC-TOY-24PIN-70SERIES inline between the two halves.



1. BEFORE REMOVING KICK PANEL



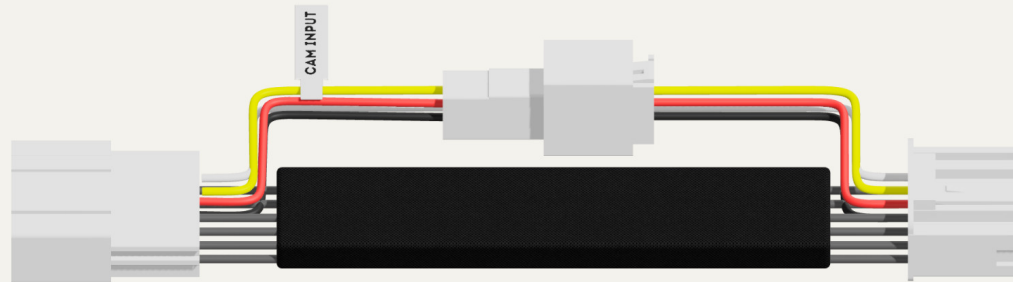
2. AFTER REMOVING KICK PANEL



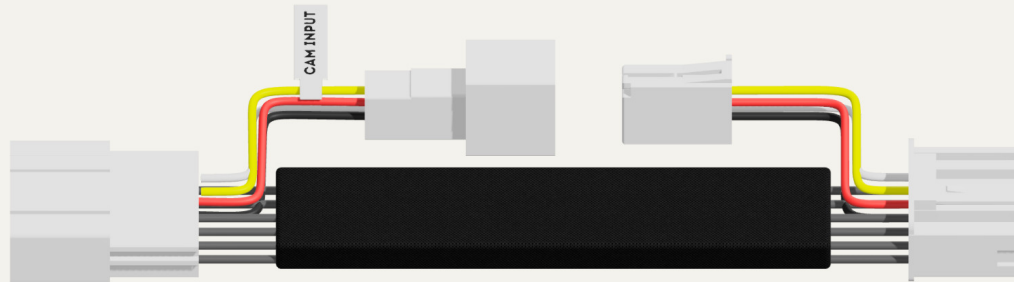
3. CLOSE UP OF CONNECTION AREA

FULL PASS-THROUGH

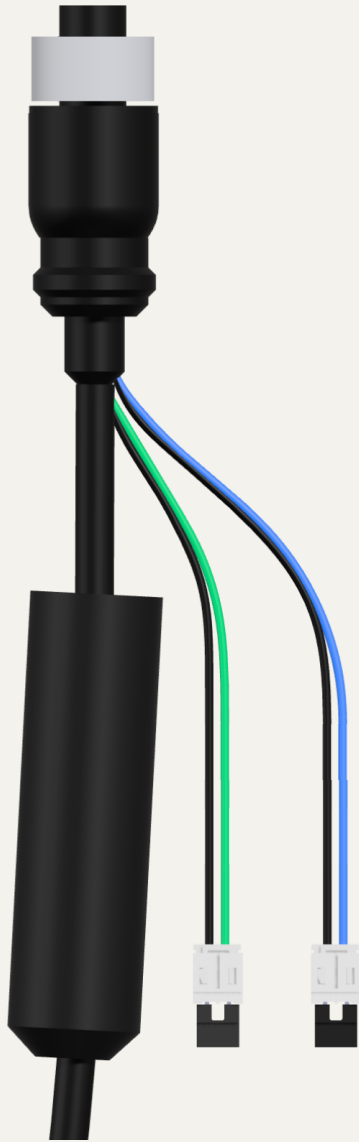
Both stereo interface harnesses are full pass-through. Every factory wire carries straight through the loom, so no OEM cable is cut, spliced or left disconnected. The only break-out is the 4-pin camera input – everything else stays exactly as Toyota wired it. Unplug the harness and the vehicle is back to standard.



Closed – 4-pin plugs joined together, factory pass-through fully restored.



Open – 4-pin plugs separated, camera connects to the labelled CAM INPUT.



CAMERA SETUP

HEAVY DUTY CAMERAS



Two black jumpers on the camera lead set how the camera behaves. **Pull a jumper off to switch that option; push it back on to switch back.** Set both before you run the cable.



Blue — Mirror / Non-Mirror

Jumper on = mirror (rear), off = non-mirror (front). Flips the image left to right so it reads correctly for the way the camera faces.



Green — AHD / CVBS (NTSC-PAL)

Jumper on = AHD, off = CVBS. The camera has a built-in converter and ships set to AHD.

Scan the QR on your info card

SMS +61 411 101 737

WIRING DIAGRAM

HARNESS: AC-TOY-28PIN

Wire Colour



CAM Power - 6V Output



CAM V+ - Input



CAM V- - Input



CAM Ground - 0V



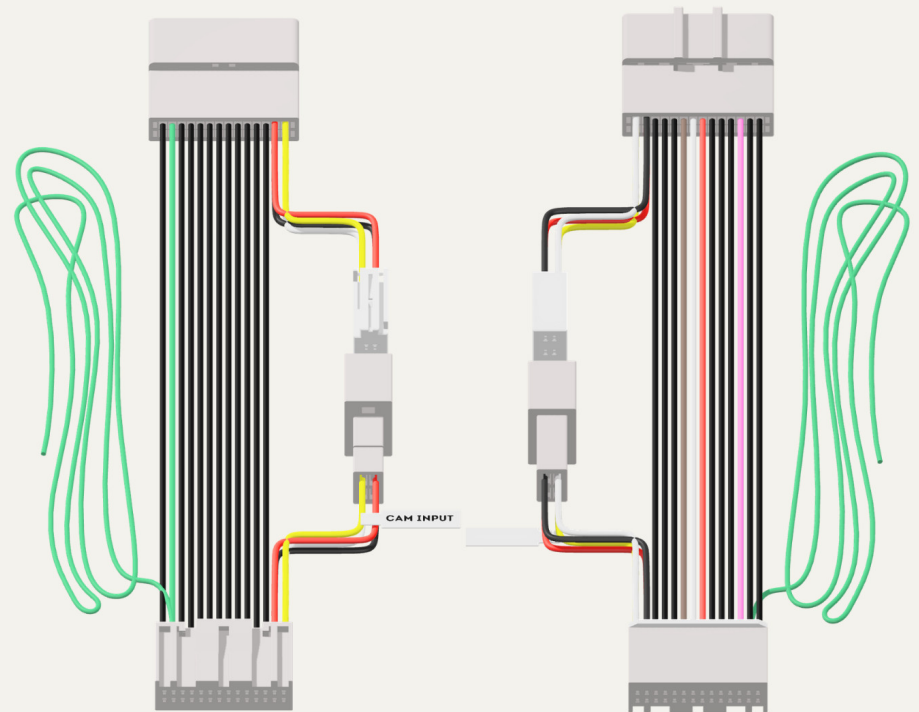
Reverse Trigger 12v Input

Connectors



Top

Bottom



WIRING DIAGRAM

HARNESS: AC-TOY-24PIN-70SERIES

Wire Colour

Function

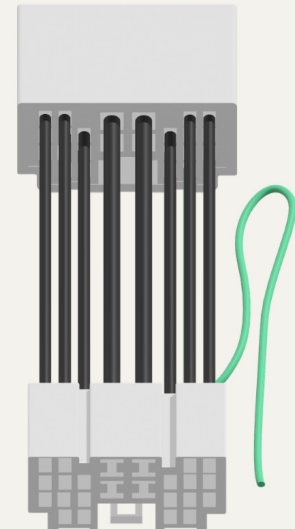
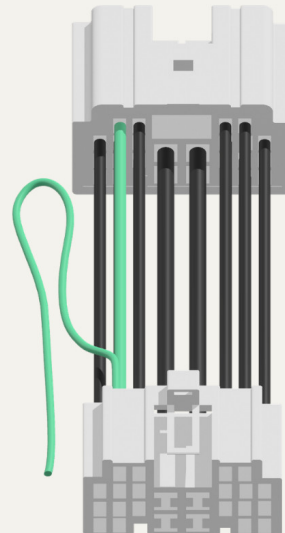
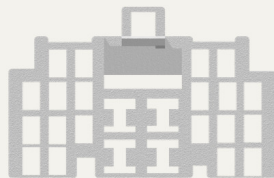
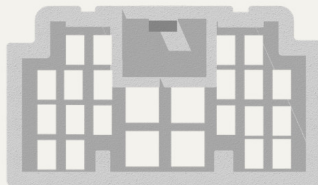
Top

Bottom



Reverse Trigger 12v Output

Connectors



WIRING DIAGRAM

HARNESS: AC-TOY-24PIN

Wire Colour

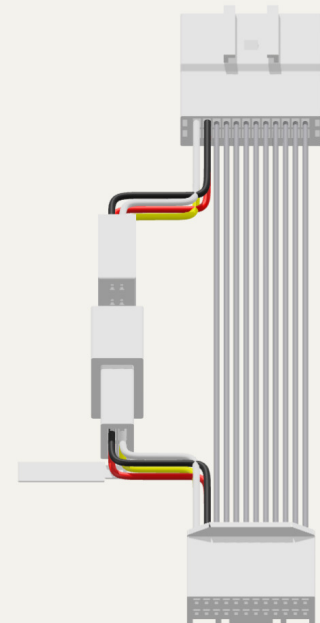
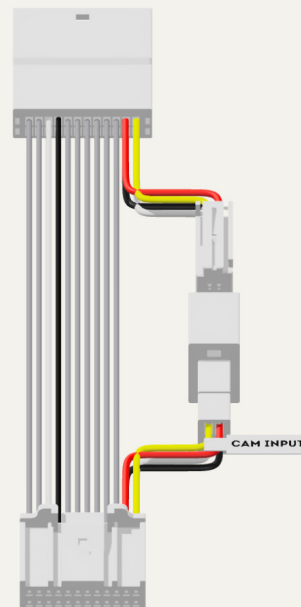
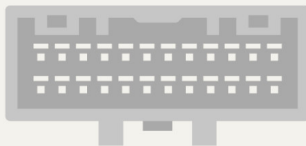
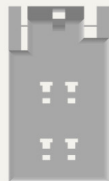
Function

Top

Bottom

-  CAM Power - 6V Output
-  CAM V+ - Input
-  CAM V- - Input
-  CAM Ground - 0V

Connectors



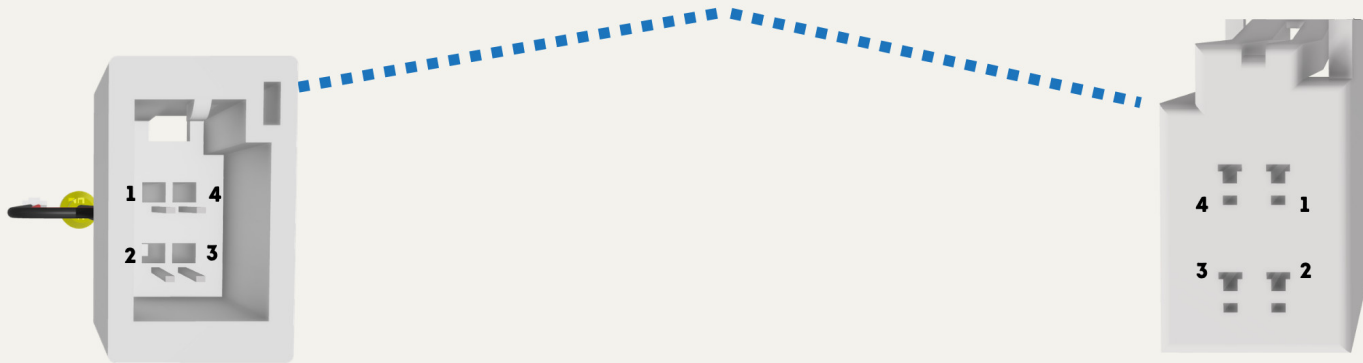
TOYOTA-STYLE 4-PIN INTERFACE PIN-OUT

Female Side (Towards Display)

Male Side (From Camera)

Important:

View connector face with orientation tab at top.



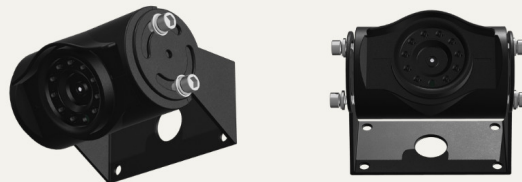
<u>Pin</u>	<u>Function</u>	<u>Wire</u>
• Pin 1	6V - Power	Red
• Pin 2	Ground / Earth	Black
• Pin 3	Video - / Shield	White
• Pin 4	Video + Signal	Yellow

PLACEMENT GUIDE TRAILERS

Trailers, Campers & Caravans



Mount camera on trailer or vehicle at desired location, run trailer extension cable to hitch point.



Run extension cable from hitch point to stereo, screen or Quadcam system.

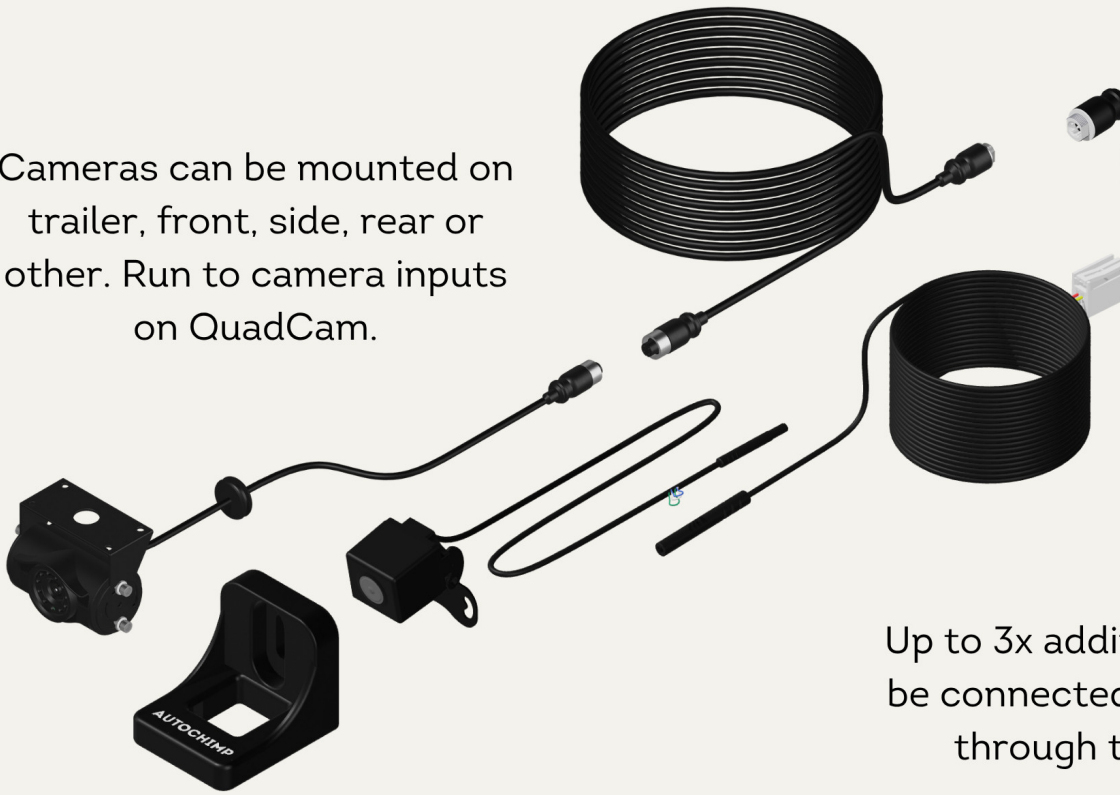
Camera bracket can be mounted in any direction.

FITMENT GUIDE

AutoChimp™ Multi-Camera System

AutoChimp Pro Series & Heavy Duty cameras direct connect and power from the QuadCam interface. Completely plug & play

Cameras can be mounted on trailer, front, side, rear or other. Run to camera inputs on QuadCam.



Universal 12v Power connections also available for using other brand cameras.

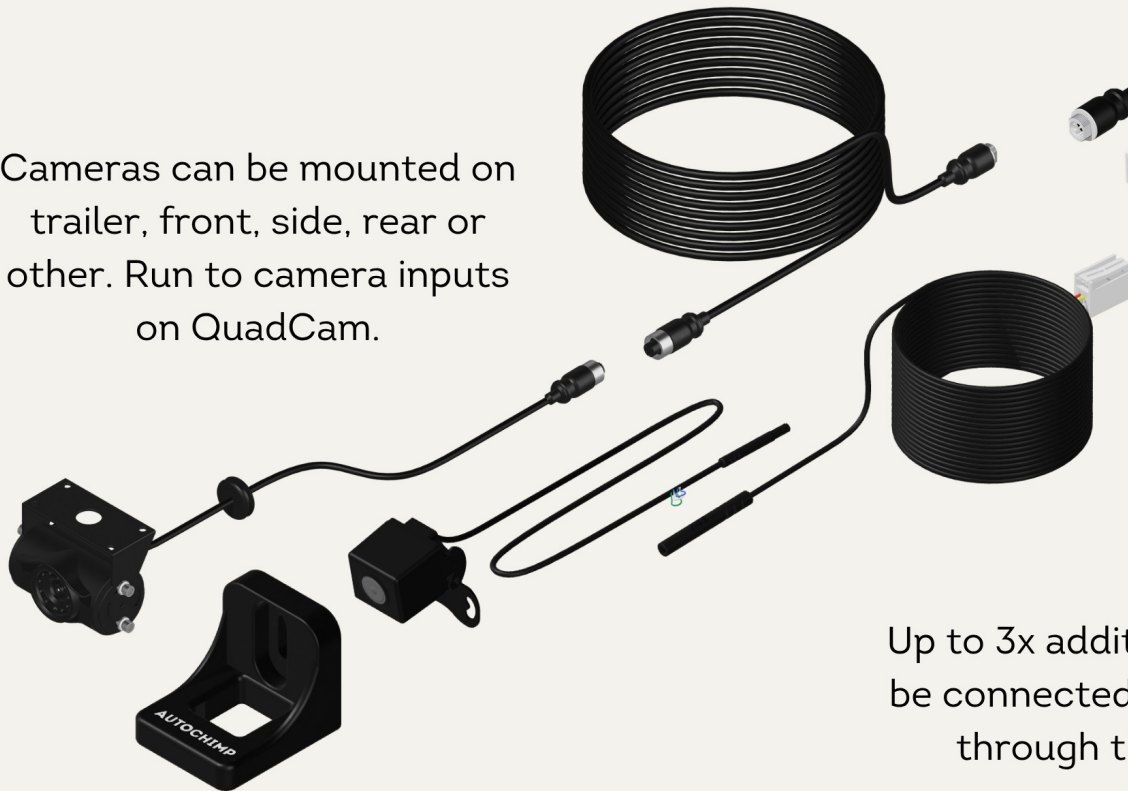
Up to 3x additional cameras can be connected to factory screen through the RCA inputs.

FITMENT GUIDE

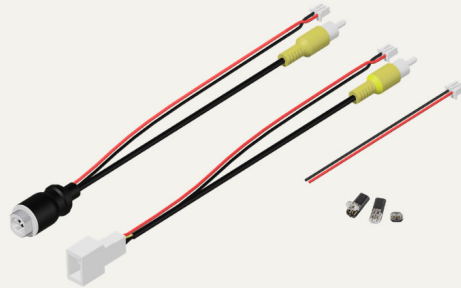
Aftermarket Screens

AutoChimp Pro Series & Heavy Duty cameras direct connect and power from the QuadCam interface. Completely plug & play

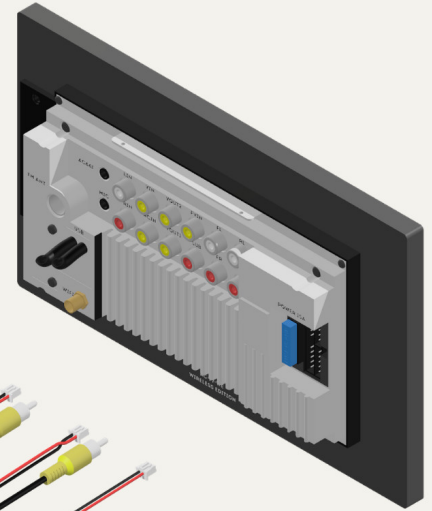
Cameras can be mounted on trailer, front, side, rear or other. Run to camera inputs on QuadCam.



Universal 12v Power connections also available for using other brand cameras.



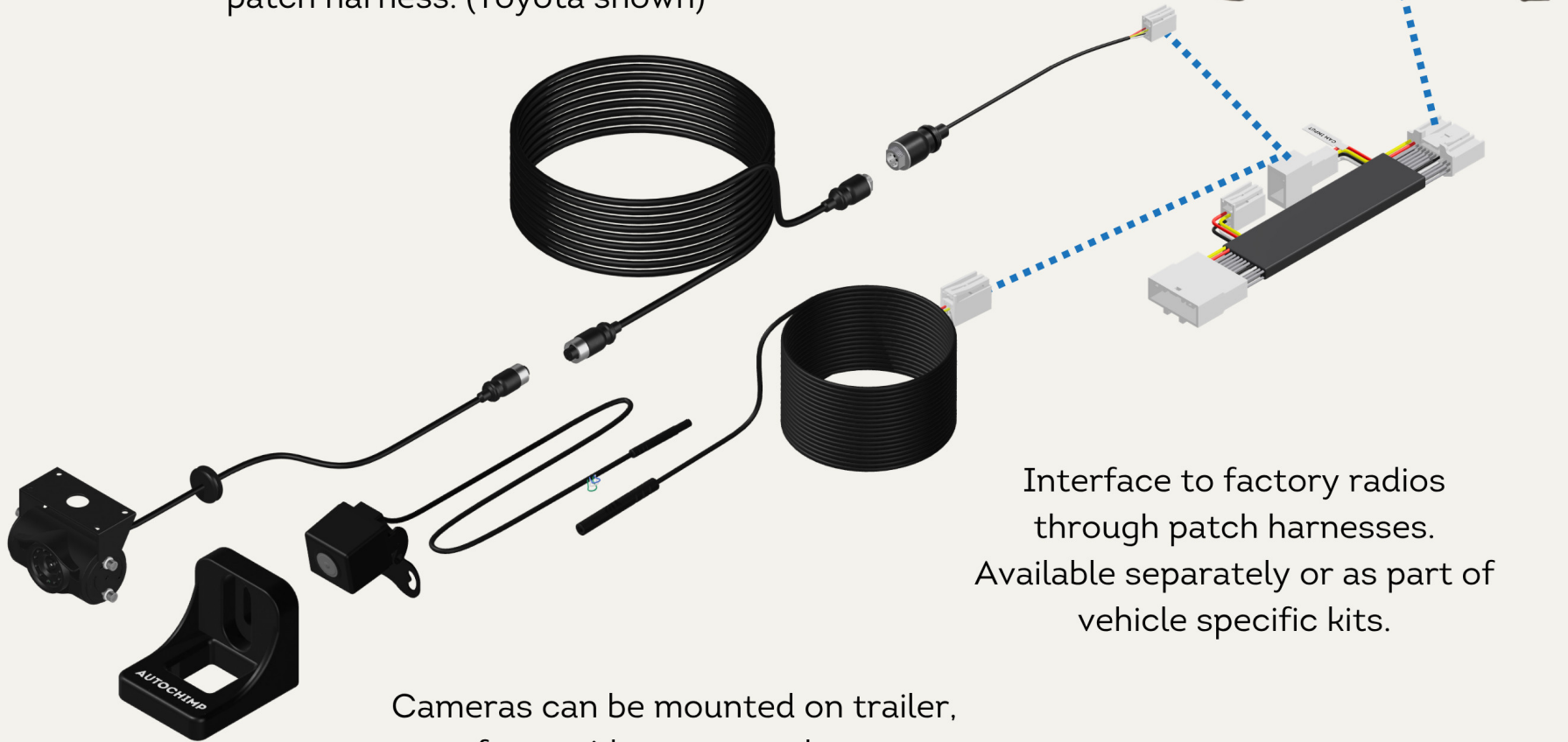
Up to 3x additional cameras can be connected to factory screen through the RCA inputs.



FITMENT GUIDE

OEM Screens & Stereos

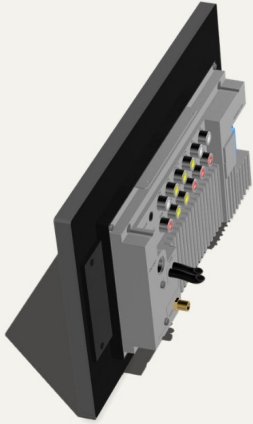
AutoChimp Pro Series & Heavy Duty cameras direct connect and power from the vehicle specific patch harness. (Toyota shown)



Cameras can be mounted on trailer, front, side, rear or other.

Interface to factory radios through patch harnesses. Available separately or as part of vehicle specific kits.

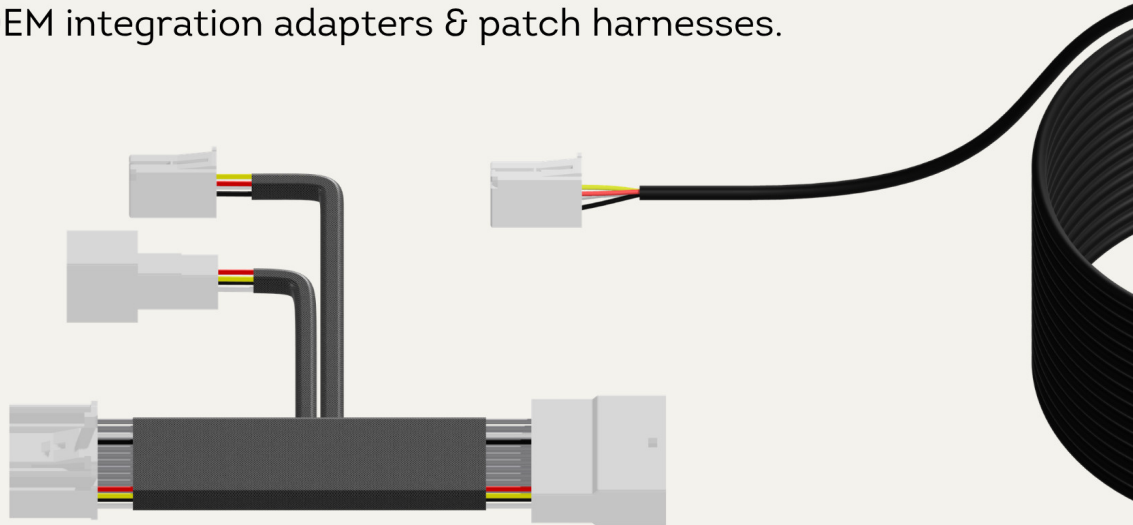
CAMERA INTERFACING



The AutoChimp™ Adapters can be used for direct connection to AutoChimp™ Dual + Quad Camera systems and are a universal connection to stereos & screens with composite video input.



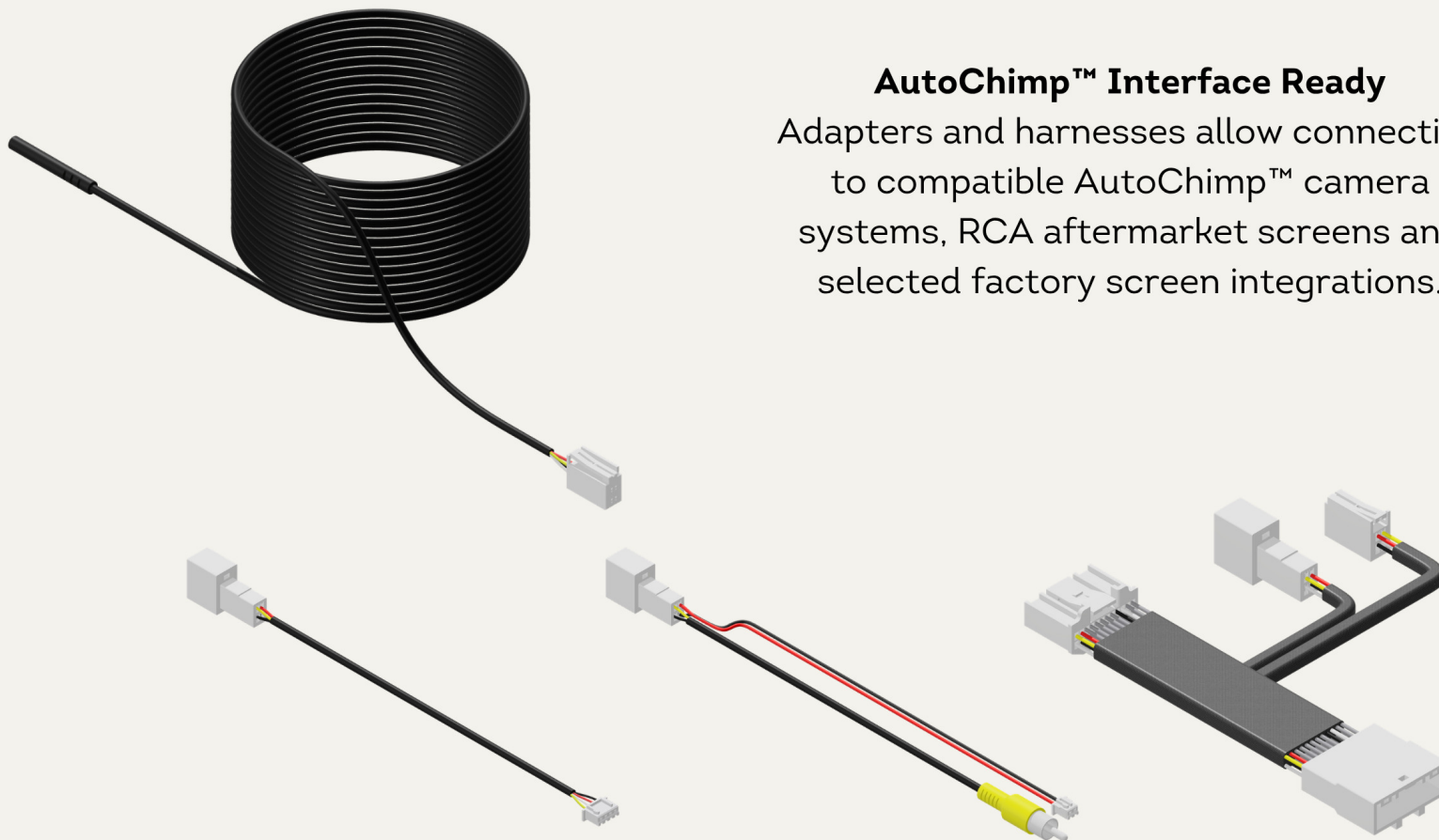
AutoChimp™ cameras can also be connected directly to factory Toyota screens or through our OEM integration adapters & patch harnesses.



CAMERA CONNECTION

AutoChimp™ Interface Ready

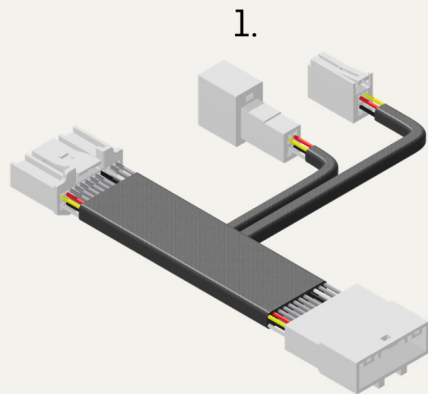
Adapters and harnesses allow connection to compatible AutoChimp™ camera systems, RCA aftermarket screens and selected factory screen integrations.



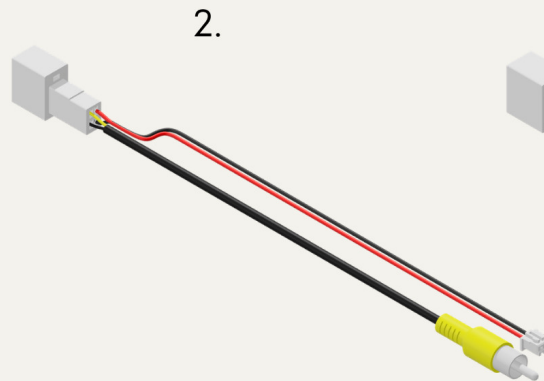
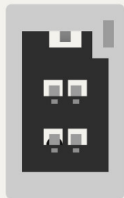
(Adapters sold separately or included in kits as specified)

OTHER CONNECTION TYPES

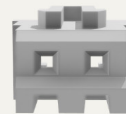
1. **AutoChimp™ OEM Adapters** - 4 Pin Direct Connection (Toyota Style)
2. **AutoChimp™ RCA Adapter** - RCA Video + 2-Pin JST Power
3. **AutoChimp™ PCB Adapter** - 4-Pin JST Video + Power



4 Pin Direct Connect



RCA Output + 2 Pin JST



4 Pin JST



(Adapters sold separately or included in kits as specified)

INSTRUCTIONS

HEAVY DUTY REVERSE CAMERA KIT FOR TOYOTA LANDCRUISER 70 SERIES

SKU AC-TOY-RC7-HEAVY · 2014–2023

Scan for the install walkthrough on our website: the full video guide, wiring diagram and fitment guide for this kit.

INSTALL VIDEO

WIRING DIAGRAM

FITMENT GUIDE

Or type autochimp.com.au/guide/ac-toy-rc7-heavy

Stuck? SMS +61 411 101 737, Mon–Fri 10am–4pm AEST

3-year warranty · see the warranty card in this box



[GUIDE + VIDEO](#)



LOGIN & RETURNS

Scan the code with your phone camera to open your AutoChimp account. No password needed — we email you a six-digit code.

- Track your order and download tax invoices
- Start a return, exchange or warranty claim
- Lodge a Shipping Protection claim
- Find every install guide for what you bought

accounts.autochimp.com.au · support@autochimp.com.au



YOUR ACCOUNT