

Instruction Manual

CMOS Reverse Camera With Butterfly Mount And
Harness Kit To Suit Toyota Hilux Vehicles 2005 Onwards



RCH170

reverse safety
camera

⚠ WARNING

**PLEASE FOLLOW THE INSTRUCTIONS
CAREFULLY AS THIS KIT HAS
THREE WIRING CONFIGURATIONS**

Toyota Hilux - June 2020 Onwards
Refer to Page (3)

Toyota Hilux - 2014 to May 2020
Refer to Page (3)

Toyota Hilux - 2005 to 2013
Refer to Page (8)

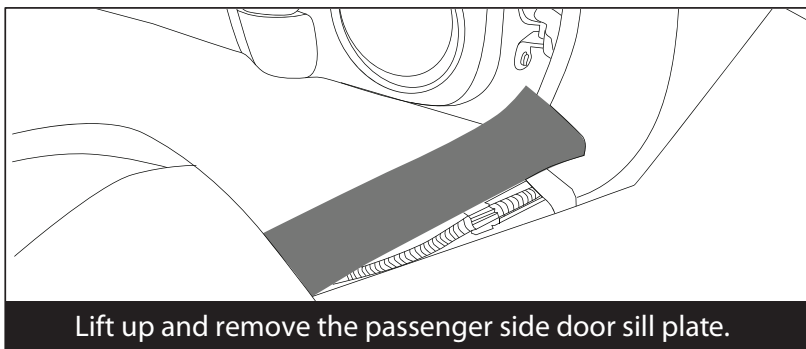
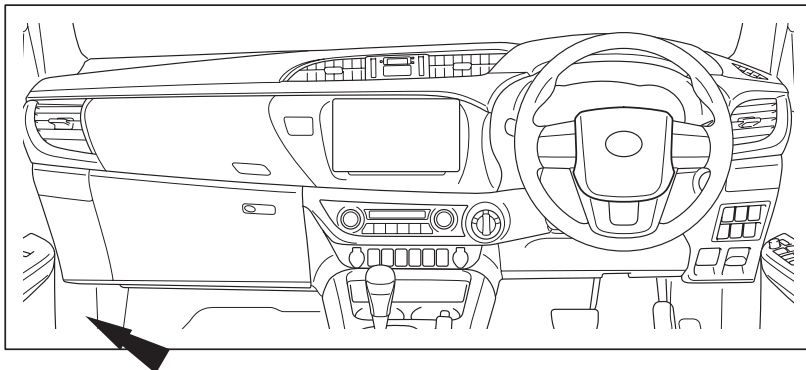
Thank you for purchasing this DNA Designer Audio product. It is designed to give you peace of mind and safety for your family. DNA Designer Audio recommends installation by a professional installer.

DNA Designer Audio's reversing camera use the latest CMOS technology for optimum image quality, reliability and versatility. The cameras are certified with IP68 "Ingress Protection" rating ensuring a very high level of resistance to water, dust and moisture withstanding the toughest conditions and environments.

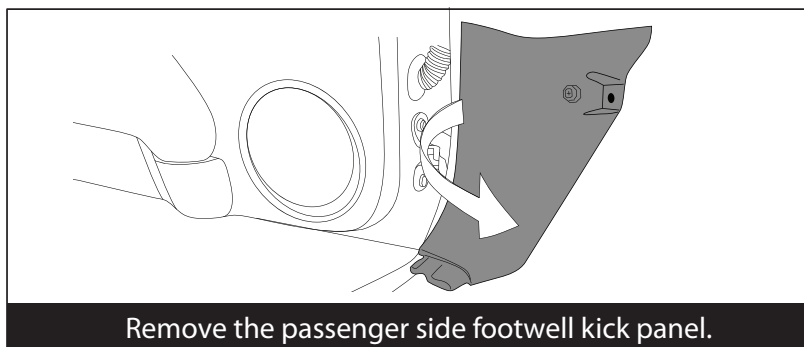
⚠ SAFETY WARNING!

The purpose of a reversing camera is to aid the driver from obstructions while reversing. It is not intended to replace the normal reversing practices which should be followed by the driver at all times in occurrences with the state and territories licensing driving laws.

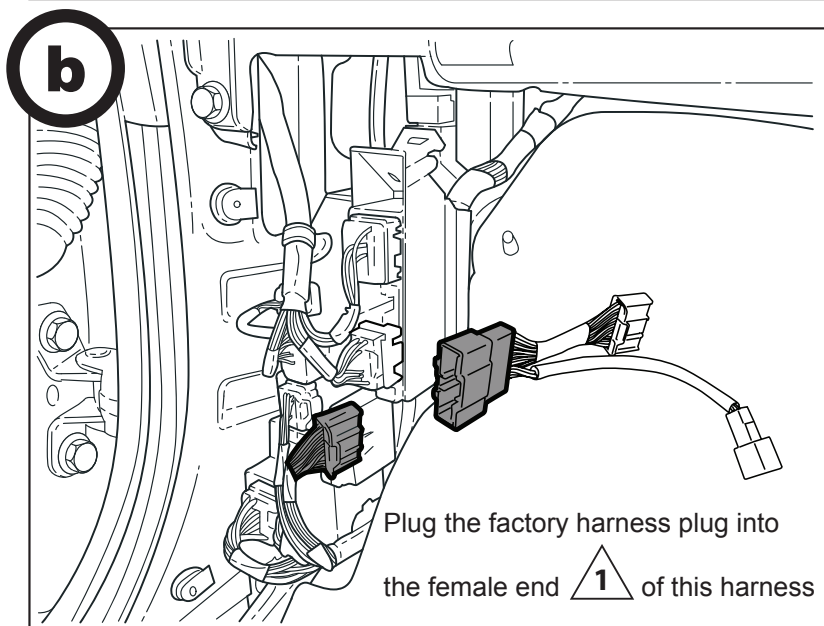
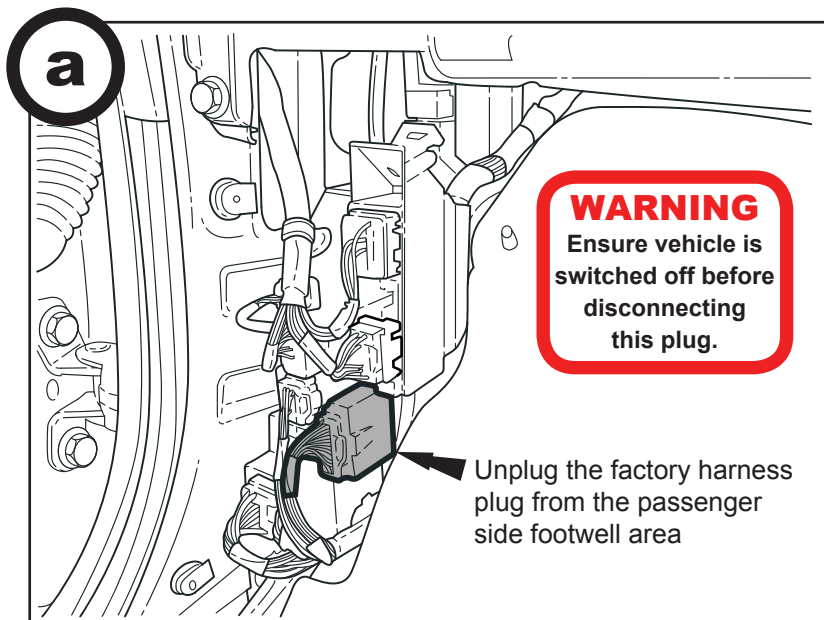
**FOLLOWING STEPS ARE ONLY FOR
TOYOTA HILUX - 2014 ONWARDS**

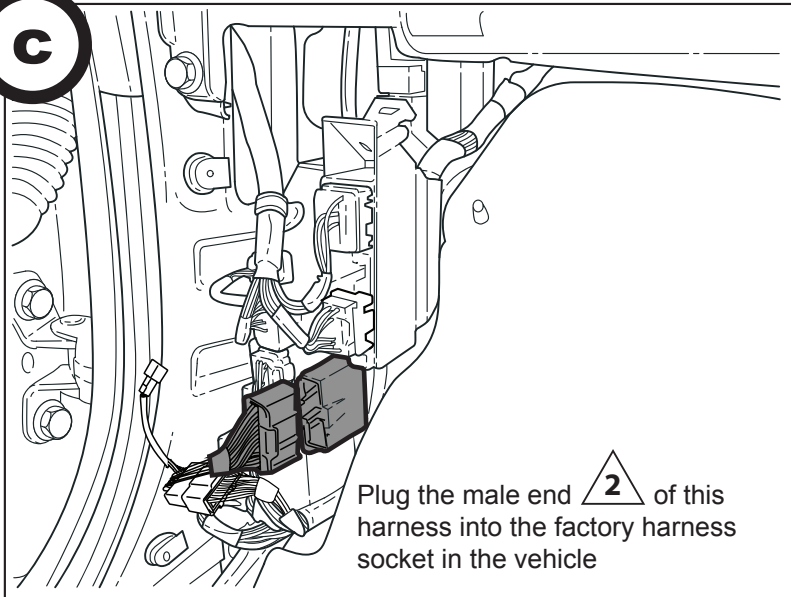


Lift up and remove the passenger side door sill plate.



Remove the passenger side footwell kick panel.



C

Plug the male end  of this harness into the factory harness socket in the vehicle

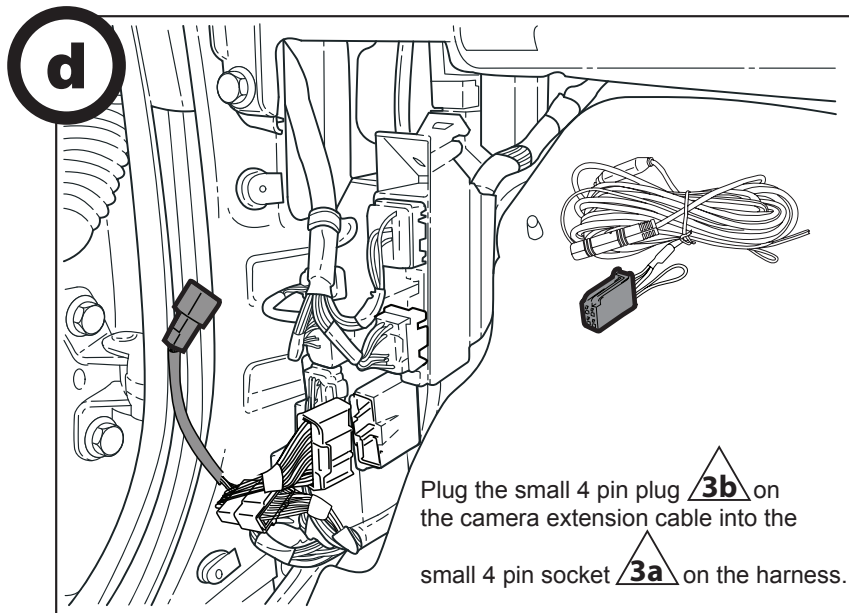
**PLEASE TURN TO THE PAGE ACCORDING
TO YOUR VEHICLE DATE RANGE**

Toyota Hilux - June 2020 Onwards
Refer to Page (6)

Toyota Hilux - 2014 to May 2020
Refer to Page (7)

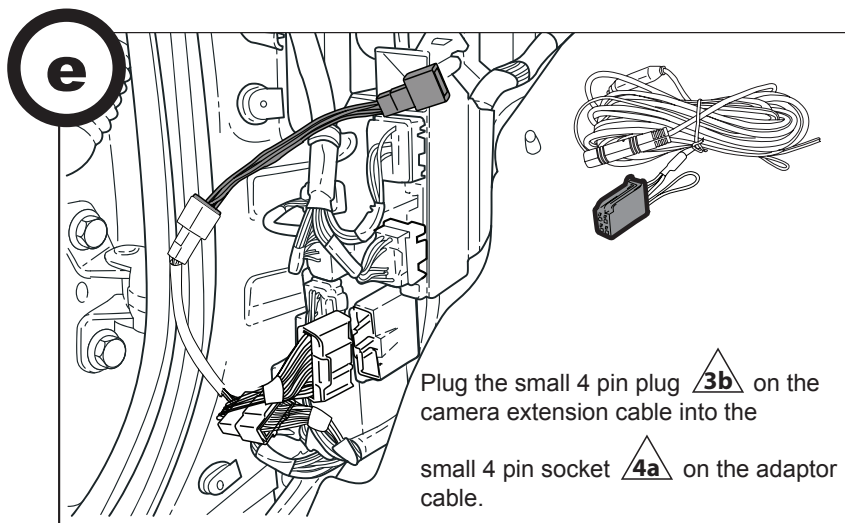
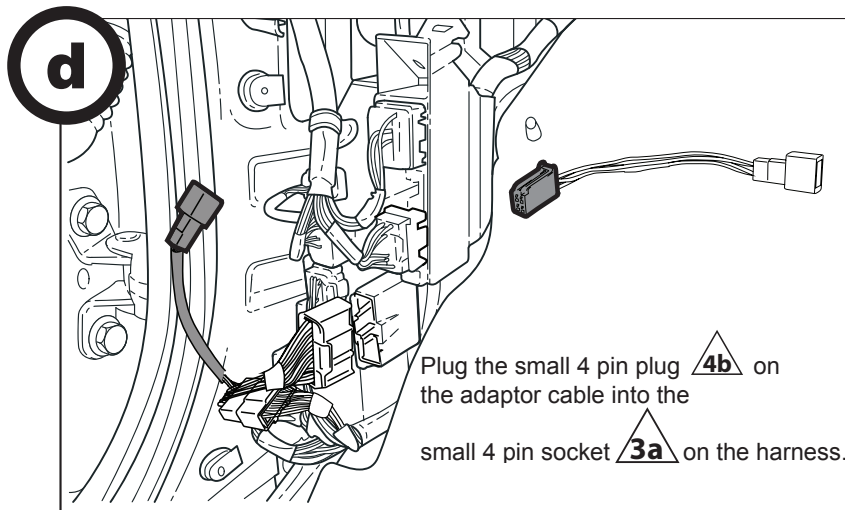
**FOLLOWING STEP IS ONLY FOR
TOYOTA HILUX - JUNE 2020 ONWARDS**

If your vehicle is not within this date range, please refer to page (2)



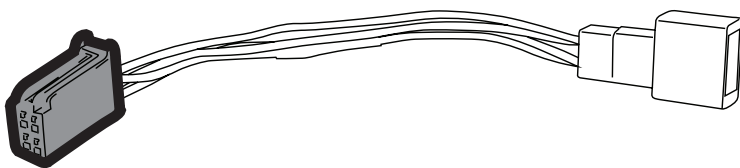
**FOLLOWING STEP IS ONLY FOR
TOYOTA HILUX - 2014 to MAY 2020**

If your vehicle is not within this date range, please refer to page (2)

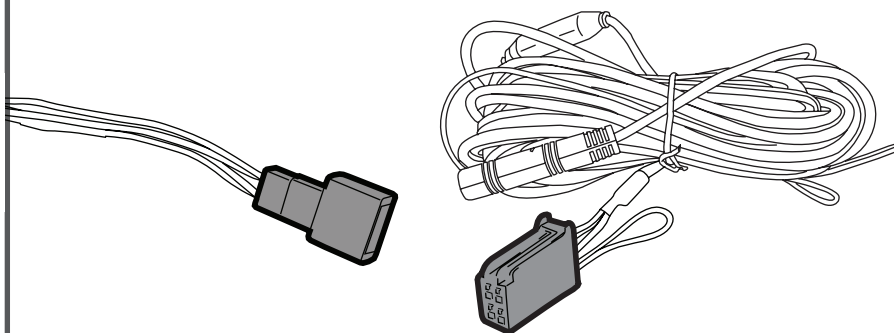


**FOLLOWING STEP IS ONLY FOR
TOYOTA HILUX - 2005 to 2013**

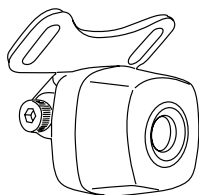
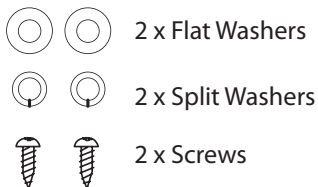
If your vehicle is not within this date range, please refer to page (2)



Plug the small 4 pin plug **4b** on the adaptor cable into the back of the head unit.



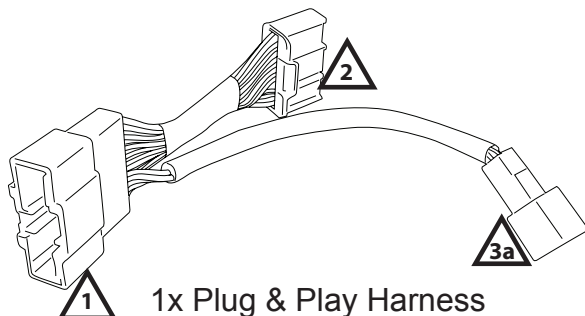
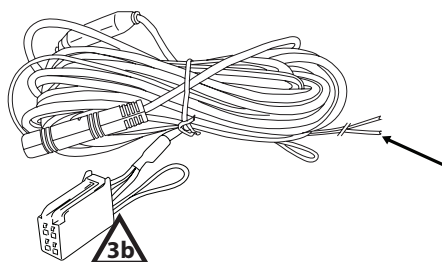
Plug the small 4 pin plug **3b** on the camera extension cable into the small 4 pin socket **4a** on the adaptor cable.

**1x Camera**

2 x Flat Washers

2 x Split Washers

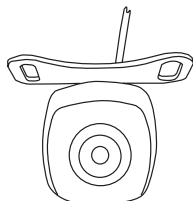
2 x Screws

**1x Plug & Play Harness****1x Adaptor Cable****1x Extension Cable**

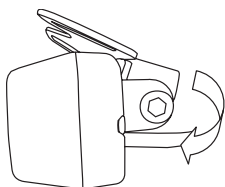
Parking Guide Lines
(Green & Black wires): By default is set
without parking guide lines.
(Join green and black wire to turn on
parking guide lines)

Due to ongoing product developments specifications are subject to change without notice.

RCL170 - Heavy Duty Large Butterfly Camera:



Front or Rear
View



Top or Bottom
Mount

(Vertical Angle
Adjustment)



1. Peel off the film from the foam tape on the bracket.
2. Secure the camera using the self tapping screw, spring & flat washers supplied.
3. Adjust the vertical angle of the camera body for correct image and parking line reference then lock into place using the allen key provided.

PAL / NTSC Image:



- PAL / NTSC Selectable (Default is PAL)
- Cut the **PURPLE** wire to change to NTSC

Mirror Camera Image - FRONT or REAR installation in the vehicle



- REAR of the vehicle (Default)
- Cut the **GREEN** wire for cameras installed at the FRONT of the vehicle.

Parking Guides:

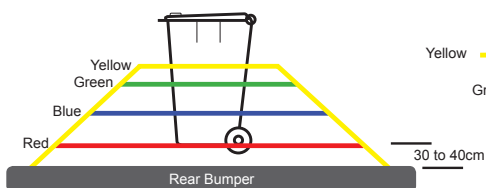


- Parking guide lines ON or OFF (Default is ON)
- Cut the **WHITE** wire to turn OFF

Adjusting the Parking Lines

Adjust the angle of the camera so that the red guide line intercepts an object between 30 to 40cm behind the vehicles bumper.

Example A. Rear Profile



Example B. Side Profile

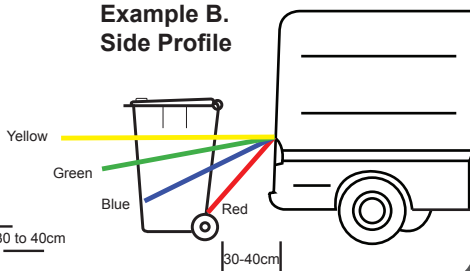


Image Sensor	CMOS
Video System	PAL/NTSC
Scanning Area	4.80mm x 3.73mm
Resolution	976(H) x 592(V)
Electronic Shutter	1s - 1/1000000(S)
SNR	≥46.5dB
Min Illumination	0.01Lux
Video Output	1.0V ±0.5Vp-p 75Ω
View Angle	170°
Working Voltage	DC9V-15V±0.5V
Consumption	100mA±10%
Waterproof Rating	IP68
Camera Body Size	28mm W x 22mm H x 22mm D
Butterfly Base Size	44mm L x 18mm W

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