



MDT VDJ79 Toyota LandCruiser – Dual Cab Child Restraint Anchor Bracket - Installation Instructions

-Version 4-

Document Created: 16th November 2018
Document Revised to V4: 19th October 2020

Contents

Product Overview	3
Kit Items	3
Tools & Equipment.....	4
Installation Instructions	5
Safety	5
Preparation	5
Apply CRA Bracket to Rear Pillar – Drill Outer Holes	6
Drill Remaining Holes & Clean Area	8
Fit CRA Bracket to Rear Wall	8
Apply Anchor Points.....	9
Clean Vehicle & Inspect	10
Installation Complete!	11
Appendix A: 9258A-17 MDT Toyota 79 LC ADR 34-03 CRA Extract_V4.....	12

Product Overview

The VDJ79 Series Toyota LandCruiser Dual Cab vehicle, despite having seating capacity of five (5), does not come fitted with OEM child restraint points.

MDT has now developed a fully ADR compliant and tested solution. The MDT Child Restraint Anchor Bracket can be installed to the rear support pillar of the Dual Cab LandCruiser, to provide three secure points of attachment for certified child seating products.

This document has been developed to ensure the kit is fitted to your vehicle correctly and provides supporting documentation for state level engineering approval.








Kit Items



Type	Part No.	Description	Qty
CHILD RESTRAINT BRACKET	MDT0097-A01	CRA BRKT ASSY – LC79 DC	1
	MDT0097-A01-001	CRA MTG BOSS	12
FASTENERS	MDT-P-0598	M6 X 120 SHCS GR12.9 ZINC	6
	MDT-P-0086	M6 FLAT WASHER ZINC	12
	MDT-P-0091	M6 NYLOC NUT ZINC	6
CHILD ANCHORAGE	MDT-P-0597	VEHICLE ANCHOR – BRITAX BRACKET (0038)	3
	MDT-P-046	M8 X 20 SHCS GR12.9 ZINC	3
	W-04977008	M8 FLAT WASHER ZINC	3
	W- 04418	M8 SPRING WASHER ZINC	3
DOCUMENTATION	-	MDT VDJ79 DC LC Child Restraint Bracket - Installation_V4 (PDF)	1

Tools & Equipment

Below is a list of tools & equipment recommended for installation:

Pair of safety glasses with side protection (General)	
Drill & 7mm Bit	
10mm Ring-Open End spanner	
Allen Key – 5mm, 6mm	
Vacuum Cleaner	
Drop Sheet – Or similar, to protect vehicle interior	
Clean Rags	

Installation Instructions

Safety

It is the responsibility of the installer to ensure all safety precautions are taken during the installation of this kit. All tools and equipment must be in good working condition, and appropriate for the intended task. All appropriate Personal Protection Equipment (PPE) must be worn during drilling processes, and cleaning of swarf. If you are unsure at any stage of the installation, STOP WORK, make safe the immediate work area and seek assistance.

Preparation

To begin, tilt the rear seat forward as shown. Access will be required from driver and passenger side rear doors.



Place the drop sheet or similar across the floor underneath the rear window to catch swarf from drilling steps to follow.



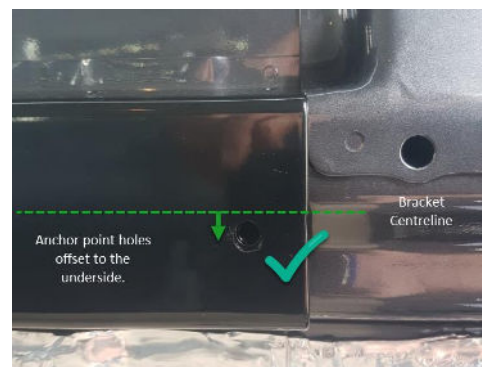
Apply CRA Bracket to Rear Pillar – Drill Outer Holes

Position the CRA bracket firmly against the rear horizontal support pillar as shown.

Ensure the upper and lower faces meet firmly against the matching faces of the pillar.



Note: The bracket needs to be orientated correctly. When in the correct position, the anchor point holes will be on the lower side of the bracket's centreline. See diagram.



Using a 7mm bit, drill the driver side upper hole through the support pillar as shown. The existing holes in the CRA Bracket will serve as a drill template for this process.



Again, checking that the bracket is firmly against the pillar, drill the corresponding underside hole as shown.



Temporarily fit the M6 x 120 Socket Head Cap Screw and apply a nyloc nut to hold in position.



Repeat the drilling of the upper and lower holes on the passenger side (again ensuring the bracket is firmly against the rear pillar).



Temporarily apply another M6 x 120 Socket Head Cap Screw and nyloc nut. The bracket is now in position to drill the remaining holes.



Drill Remaining Holes & Clean Area

Drill the upper and lower holes in the remaining 8 (4 topside, 4 underside) locations



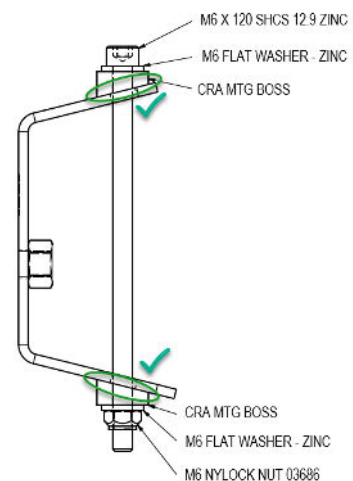
Once complete, remove the bracket from the pillar, and thoroughly clean the pillar and bracket.



Fit CRA Bracket to Rear Wall

Once the bracket and wall are free of swarf and sharp edges, reapply the bracket to the wall as previously shown.

Re-install all 6 sets of M6 x 120 SHCS, including tapered boss's and flat washers arranged as per the diagram shown. Pay attention to the tapered boss, ensuring the tapered face of the boss matches that of the CRA Bracket.



Using the 5mm Allen key and 10mm spanner firmly tighten each bolt.

(Approx. 12 Nm)



Note: During the tightening process, pause to check that the boss is mating correctly against the CRA Bracket. If the boss has rotated out of position, it may tighten against upper edge, rather than the tapered face. Leaving the boss in this position will affect the integrity of the bracket, causing it to come loose over time.



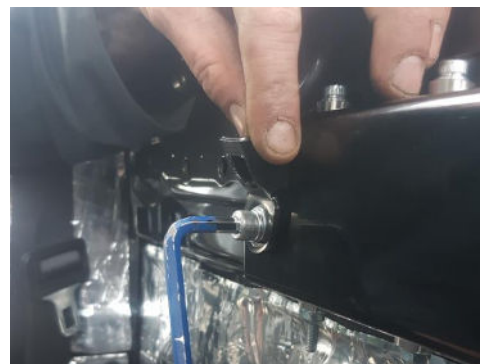
Apply Anchor Points

Prepare 3 x anchor points for installation.



Ensure the brackets are orientated vertically as shown. Using a 6mm Allen Key, firmly tighten the M6 x 20 SHCS.

(Approx. 30 Nm)



Clean Vehicle & Inspect

Remove drop sheet from vehicle. This should contain most of the swarf produced during installation.



Using a vacuum cleaner, ensure all remaining swarf and loose material is removed from the vehicle.



Complete final inspection, ensuring:

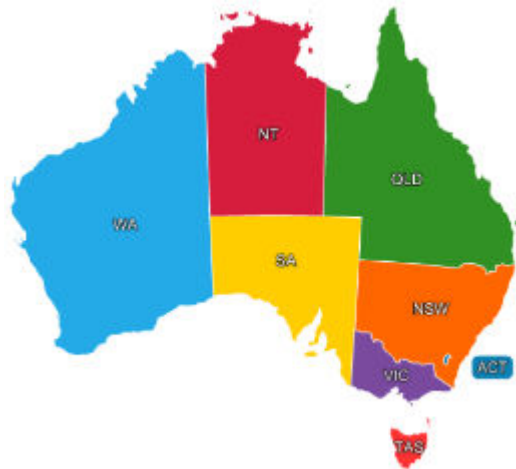
- All M6 bolts are in place and tightened.
- Tapered faces of boss and bracket meet firmly on top and underneath.
- Anchor points are firmly attached and are orientated correctly.
- Work area is clean and rear seat is returned to original position.



Installation Complete!

Installation of this product may require inspection and approval by a recognised Vehicle Certifying Engineer. This process can vary dependent on the state in which the vehicle is registered. Please contact your Road Traffic Authority, or MDT for assistance.

Appendix A shows the supporting documentation for the design and functionality of this product. This is to be provided to the Vehicle Certifying Engineer on inspection to support the final approval process (if required).



For further information on the MDT Child Restraint Bracket, or other Multidrive products, please contact us directly.



Multidrive Technology P/L - Geelong VIC


ADDRESS

9-12 Hume Reserve Court Bell Park VIC 3215

PHONE

03 5278 5300

EMAIL

sales@multidrive.com.au

WEBSITE

www.multidrive.com.au



Appendix A: 9258A-17 MDT Toyota 79 LC ADR 34-03 CRA Extract_V4



17 October 2018

Report Number: 9258A/17

Kinetic Engineering Services Pty Ltd
9 – 12 Hume Reserve Court
Bell Park Vic 3215

Reference: Toyota 79 Series Landcruiser – Child Restraint Anchorage
Testing for Compliance with ADR 34/03

This certificate is an extract of our full report number 9258/17 compliance with the strength requirements of *Australian Design Rule 34/03 – Child Restraint Anchorages and Child Restraint Anchor Fittings*.

Suitable Vehicle: Toyota 70 series 4DR cab chassis

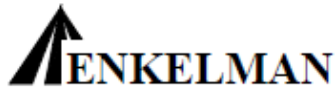
Part Number: MDT0097-A01

Testing was conducted in accordance with Clause 10 – Strength of upper anchorage and Clause 11 – Additional Strength Requirements for vehicles with upper anchorages that transfer load to a seat back.



Photo 1: Load Application during Testing

TEL +61 3 9580 3024 FAX +61 3 9587 1268
FACTORY 1/5-7 BRAESIDE DRIVE BRAESIDE VIC AUSTRALIA 3195 PO BOX 6015 CROMER VIC AUSTRALIA 3193
PRINCIPAL: A ENKELMAN BE, MIE (AUST), MSAE, VDI



REPORT NUMBER: 9258/17

KINETIC ENGINEERING SERVICES PTY LTD

CHILD RESTRAINT ANCHORAGE TESTING TO ADR 34/03
VEHICLE: TOYOTA 70SERIES 4DR CAB CHASSIS

Results:

Required Test Load: CRA: 3 x 3.4 kN (10.2 kN)
 Seat: 20 x 9.81 x 28 (5.5 kN)

Static Test:

Clause	Compliance	Method
10.1.1.1 11.1.1.1	Y	CRA: 11.0 kN, Seat 6.4 kN The tests were carried out simultaneously

Conclusions

It is therefore concluded that the 'Child Restraint Anchorage' Package (Part Number MDT0097-A01) as fitted to the nominated seating positions in the Toyota 79 Series Dual Cab Landcruiser are deemed satisfactory and comply with the requirements of ADR 34/03.

Yours faithfully

A handwritten signature in blue ink, appearing to be "J Chan", is written over a blue rectangular stamp that also contains the text "J Chan".

J Chan