

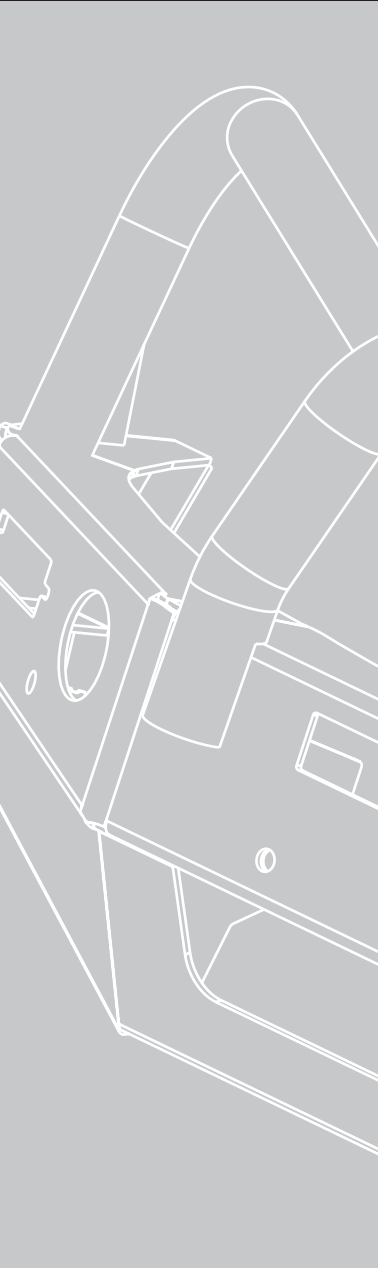


**WORLD'S BEST
ALLOY BULLBARS**

**Lighter
Stronger
Better!**

**Strongest Built
Australian Made
Lifetime Warranty**

PN: EADO19SY



Fitting Guide & Owners Manual

Dodge Ram MY20

6/19 on

Big Tube Bar with Bumper lights
VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)
FOR AIR BAG & ADR COMPLIANT VEHICLES

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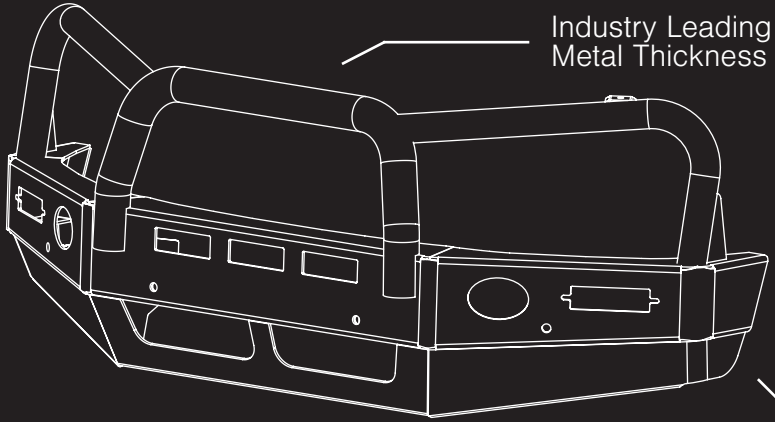
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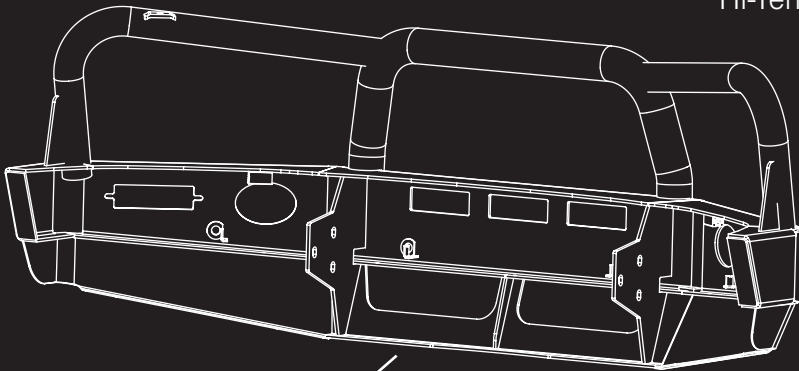
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The Features of ECB



Industry Leading
Metal Thickness

6mm Thick
Hi-Tensile Alloy



Unmatched
Strength

Fully Welded
Construction

ECB's Benefits

Built to Perform - Not to a Price

ECB are proud to claim that their channels are not jigsaw puzzles that are bolted together, or even multiple sections welded together. Where any welding is required, it is done to the highest standards by qualified welders, not machines.

Anti-Corrosive Nature of Alloy

The composition of ECB's alloy has a very high resistance to corrosion. Rust not only looks unappealing but greatly reduces the strength of the metal. Rust can and will weaken the structural integrity of a steel bullbar effectively rendering it useless over time.

Australian Made

Established in 1971, we utilise over 46 years of experience designing, engineering and building products in Australia to suit Australian conditions. We can ensure the best quality controls and help support the local economy and employ over 90 proud Australians.

Weight Saving Benefits

An ECB alloy bullbar is typically half the weight of a steel bullbar. Unnecessary suspension upgrades are not required. The reduced weight also contributes to increased fuel economy and less wear and tear on tyres, suspension and braking components.

Welds That Work

ECB uses only the strongest welds and welding techniques to ensure every product is as structurally sound as possible. MIG (Metal Inert Gas) welding techniques are employed ensuring the welds are as thick as the thickest section of alloy's being joined together.

Lifetime Warranty

ECB provide a lifetime warranty and consumer guarantee on all of our manufactured products. This guarantee highlights the confidence in our ability and provides complete peace of mind for your purchase for the lifetime you own your vehicle.

Product Care

Polished Products

Being a premium mirror polished finish, regular maintenance will be required to keep that iconic ECB shine. We recommend using our own brand of Aluminium Polish. This formula has been tried and tested and in our opinion is the world's best standard.

Directions: Apply a small quantity of Aluminium Polish to a clean soft cloth and rub the metal surface. The longer the rubbing the brighter the surface becomes. Wipe off Aluminium Polish with clean soft cloth. Also suitable for motorised buffing machines.

Note: There are more specific details on the polish bottle. Please read before use.

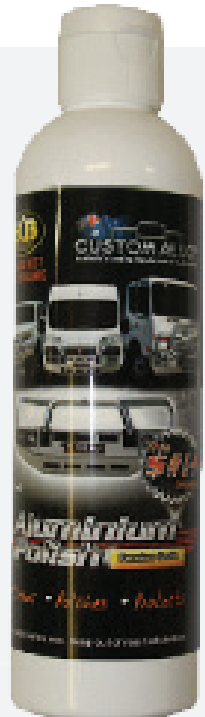
Powdercoated Products

Our powdercoated finishes are very low maintenance. Infact there is actually very little you will ever need to do for this product. Just clean it as you would your car and it will stay looking good as new.

ECB Aluminium Polish

When you're looking for that showroom finish look for your polished automotive products, you can depend on the no compromise quality of East Coast Bullbars Aluminium Polish. This specifically designed product is the best polish available and we guarantee that this \$#!+ works. With over 40 years of manufacturing polished alloy products we have trialed a large range of different polishes on the market and believe without a doubt that nothing beats the finish quality of East Coast Bullbars Aluminium Polish.

East Coast Bullbars Aluminium Polish is excellent for use by hand and is ideal for polished bullbars, nudge bar and stainless steel products. This polish will clean, polish and protect your product from the elements whilst bringing your products back to that showroom finish look.



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Ensure you have the correct Protection Bar for your vehicle before you start.

There are some identifying features on this vehicle which should be checked.

1. Recess in centre of bonnet and grille
2. Headlight matches vehicle in picture
3. "1500 Hemi" badge in back corner of bonnet



Stage 1

- Test drive vehicle to ensure all driver assists are correctly working and to gauge effectiveness. Park on a flat level surface.
- Apply parking brake and lift bonnet.
- Unwrap ECB Protection bar and disconnect mounts. Discard bolts.
- Ensure these instructions are left with the vehicle owner and/or operator.



Stage 2

- Remove twelve (12) push/pull clips from radiator top trim and remove.



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Stage 3

- Remove three (3) 8mm head screws from lower outer side of wheel arch liner.
- Loosen only two (2) inner lower screws from inner edge of wheel arch liner



Stage 4

- Remove four (4) 8mm head screws from wheel arch flare and unclip flare from guard.
- Pull wheel arch liner away from guard and remove one (1) 10mm head bolt from rear wing.



Stage 5

- Unclip plastic filler panel from grille and gently pull out while releasing it away from guard.



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Stage 6

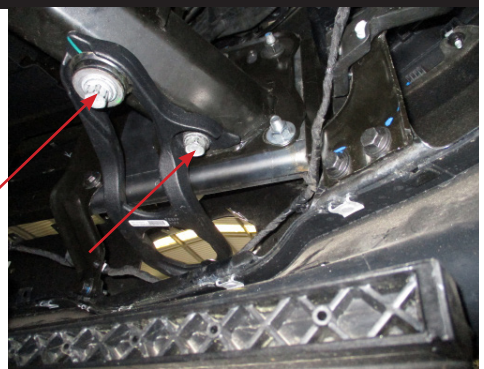
- Remove eight (8) 10mm head screws and two (2) push/pull clips from top of grille.
- Remove three (3) 10mm head screws from bottom of grille (per/side).
- Lift up on top edge of grille and forward to remove from vehicle.



Stage 7

- Remove tow hooks by removing one (1) 18mm head bolt and loosen only one (1) 21mm head bolt (per/side).

NOTE: Do not remove rear 21mm head bolt as it doubles as a body mount and can be difficult to reinstall.



Stage 8

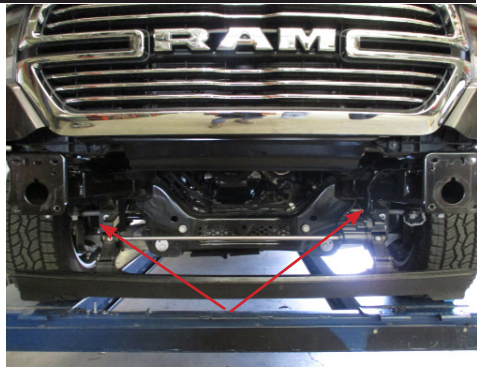
- From underside of bumper, remove three (3) 18mm head nuts from end of chassis rail (per side).
- Unplug wiring harness from passenger side inner bumper area
- Remove bumper.



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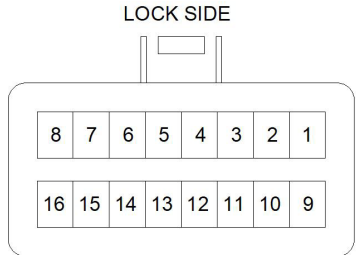
Stage 9

- Remove lower air deflector, four (4) 13mm head nuts.
- Disconnect wiring harness to motor.
- Seal end of harness using electrical tape and secure back onto harness out of the way.



Stage 10

- Remove headlight and hard wire indicator, DRL and parker wiring harness (per/side).
- Refit headlight.
- **Please Note:** Information gained looking at rear of vehicle side of drivers connector. Coloring on your vehicle may vary. Wiring correct at time of development.
- **CAUTION:** Overheating of connectors will cause the plastic sheathe to melt, while under heating will not melt the solder enough to create a strong connection. Hold joint still until solder is solid for a good join.



VEHICLE CONNECTOR

Pin No.	Color	Use
4	Black	Earth
6	Tan/ Orange	DRL
11	White/ Tan	Indicator
13	White/ red	Park

Stage 11

- Refit grille to vehicle using original bolts and clips.
- Refit under headlight infill panels, flares and inner guards using original equipment bolts and clips



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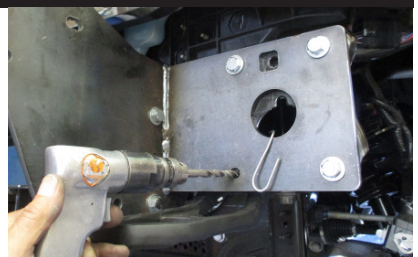
Stage 12

- Fit ECB side mounting brackets (supplied) onto the end of the chassis rails. Align holes and fix with three (3) M12 x 1.75 x 40mm bolts, flat washers, spring washers and nuts (supplied). **Finger tight only.**
- Fit stabilizer mount (supplied) between side mounting brackets and fix with M12 x 1.75 x 40mm bolts, flat washers, spring washers and nuts (supplied) (per/side).
- Align mounts to vehicle and **Tighten all bolts**



Stage 13

- Using ECB steel mounting bracket as a guide drill a 13mm hole through lower inner hole in front of mount and in rear of mount in rear leg (per/side).
- Blow all filings clear and treat bare metal with rust inhibitor.
- In front hole fit one (1) M12 x 1.75 x 40mm bolt, flat washer, spring washer and nut (supplied)(per/side)
- In rear hole fit (1) M12 x 1.75 x 40mm bolt and washer on wire, flat washer, spring washer and nut (supplied)(per/side).



Stage 14

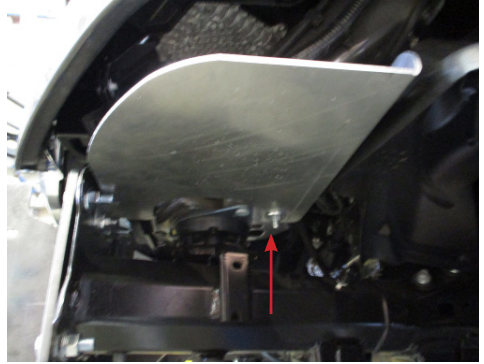
- Fit tow hooks using original equipment.



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Stage 15

- Fit under light guard using M8 x 1.25 x 30mm bolts, flat washers and nyloc nuts (supplied) (per/side).
- On passenger side remove wiring harness connector from hole in chassis plate.



Stage 16

- Drill two 6mm holes in front of inner guard to bolt to underlight guard.
- Using M6 x 20mm bolts, flat washers and nyloc nuts (supplied) attach inner guard to underlight guard.



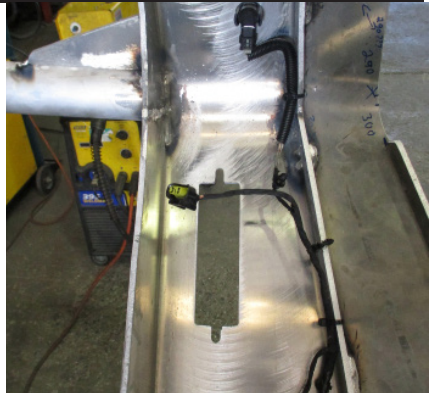
Stage 17

- Connect ECB Quick Click fog light wiring harness (supplied) into original wiring harness.
- Ensure positive wire on vehicle matches red wire on fog light harness. Fog light harness can be changed using a small screwdriver to release the pin holding clips in the black housing.

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Stage 18

- Relocate sensors into protection bar. Rotate parking sensor mount to suit direction parking sensor was removed from vehicle. Ensure silicon ring is attached to front of sensor. With parking sensor in correct direction, gently place into parking sensor mount with locating pins ratcheting into holding lugs. Push only until front of sensor is aligned with front of parking sensor mount. Silicon seat on parking sensor should seat loosely into front opening.
- Extend outer sensor wire with ECB solder joiners and 200mm 3 core wire extensions supplied (per/ side). Cover wiring with conduit (supplied).



CAUTION: Overheating of connectors will cause the plastic sheathe to melt, while under heating will not melt the solder enough to create a strong connection. Hold joint still until solder is solid for a good join.

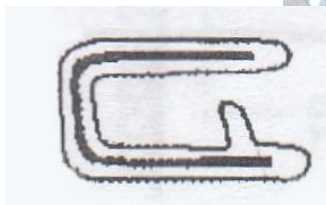
Stage 19

- Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit.
NOTE: Ensure park light is to top.



Stage 20

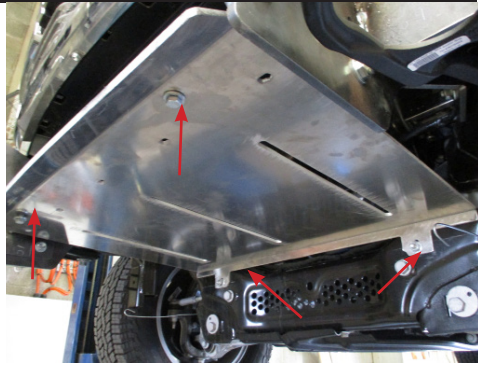
- Attach 6mm clip lock trim (supplied) to top of ECB protection bar and front lower skirt tow point holes.
NOTE: Trim off lower edge on an angle so trim will sit flush with end of protection bar.



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Stage 21

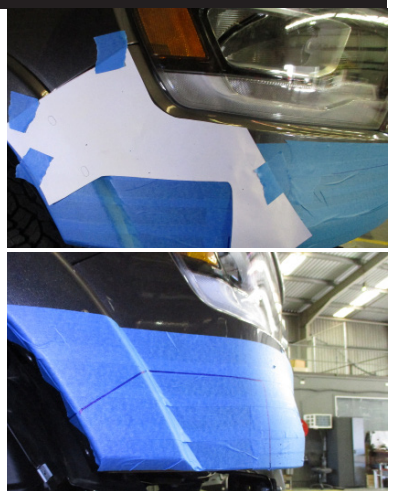
- Fit under body guard using two (2) M10 x 1.5 x 40mm bolts, flat washers, spring washers and nuts (supplied) in front holes.
- Fit two (2) M10 x 1.5 x 40mm bolts and washer on 300mm wire, 50 x 50 x 6mm alloy flat washer plate, flat washer, spring washer and nuts (supplied) in rear hole.



Stage 22

- Using paper masking tape, mask area of infill trim to be cut.
- Using ECB template as a guide mark and trim cut out section on plastic panel under headlight and flair.
- Using jigsaw or similar carefully cut out .

CAUTION: This is not trimmed so make it as neat as possible.



Stage 23

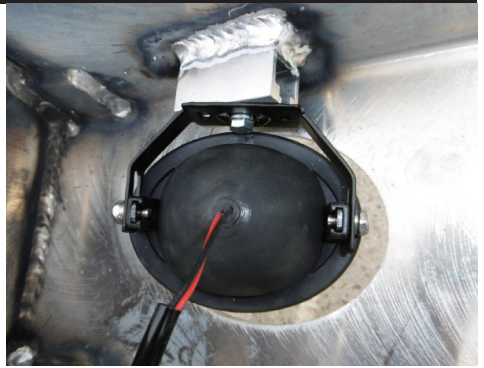
- Fit protection bar onto steel mounting bracket using four (4) M12 x 1.75 x 40mm bolts, flat washers, spring washers and nuts (supplied) (per/side).
- Align protection bar and **tighten all bolts.**



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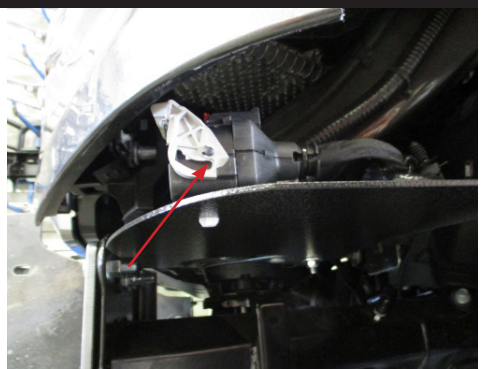
Stage 24

- Attach ECB bumper lights to protection bar. Place M6 x 20 bolts, spring washers (supplied) through light mount from inside and attach nut to top. Slide assembly into light mount in Protection bar and centralize light to hole. TIGHTEN FIRM ONLY.
- Install bumper light surrounds (supplied) to light openings. Large side of surround to inside of opening.



Stage 25

- Reconnect wiring harness and test all electrical equipment for correct operation.
- Place wiring clip into hole located in under light plate on passenger side.



Stage 26

- Ensure all lights and sensors are connected.
- Test drive vehicle to ensure all driver assist are working as per pre-start drive and manufacturers specifications.

Final Checks

Ensure Number Plate is Clearly Visible

Note: When fitting/refitting the licence plate to the vehicle, ensure there is no obstruction to licence plate vision in accordance with local authorities. If required relocate licence plate to an alternate location.

Further VFPS Notes

1. Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
2. Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
3. Do not remove the plaque or label from the VFPS.
4. Do not modify the structure of the VFPS in any way.
5. No accessory or fitment should project forward of the VFPS forward profile.
6. **Ensure these instructions are left with the vehicle owner and/or operator.**

Important Information

Periodically check bolts and nuts for correct tightness, especially if traveling on rough roads.

Installation Kit

Installation Kit	
1 - Pair Steel mounting brackets	6 – M6 x 20mm Bolt
1 - Stabilizer mount	8 – M6 Flat washer
1 - Center underbelly guard	2 – M6 Spring washer
1 - Pair under light guards	2 – M6 Nuts
2 – 50 x 50 x 6mm Alloy washer plate	4 – M6 Nyloc nuts
22 – M12 x 1.75 x 40mm Bolt	1 - Indicator /DRL / Park Light Kit
2 - M12 x 1.75 x 40mm bolt and washer on 300mm wire	8 - Cable locks
46 – M12 Flat washer	1 - Bumper light kit
24 – M12 Spring washer	1 - Quick Click connector (IC10D40S1004ECBH)
24 – M12 x 1.75 Nuts	2 - Bumper light surrounds
2 – M10 x 1.5 x 40mm Bolt	2 – 200mm lengths 3 core wire
2 – M10 x 1.5 x 40mm Bolt, washer 300mm on wire	12 – Solder joiners
6 – M10 Flat washer	2 – 250mm lengths conduit
4 – M10 Spring washer	9 – 200mm zip tie
4 – M10 x 1.5 Nuts	6 – 150mm zip tie
4 – M8 x 30mm Bolts	1 – 2800mm length 6mm clip lock
4 – M8 Nyloc nuts	2 – 300mm lengths 6mm clip lock
8 – M8 Flat washer	

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **EAD019SY** _____

Email: _____

Phone: _____

Work Order Number: _____

You can find this on the silver label
of your ECB product.

By submitting this registration you automatically subscribe to ECB's mail outs. You
can unsubscribe at any time.

Please post to

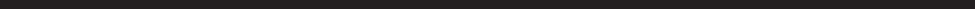
PO Box 122 Margate QLD 4019

Or Register Online

For online registration please go online to www.ecb.com.au/warranty-registration. If
you have any questions please contact our national office on 1800 069 145 or www.ecb.com.au.



Notes



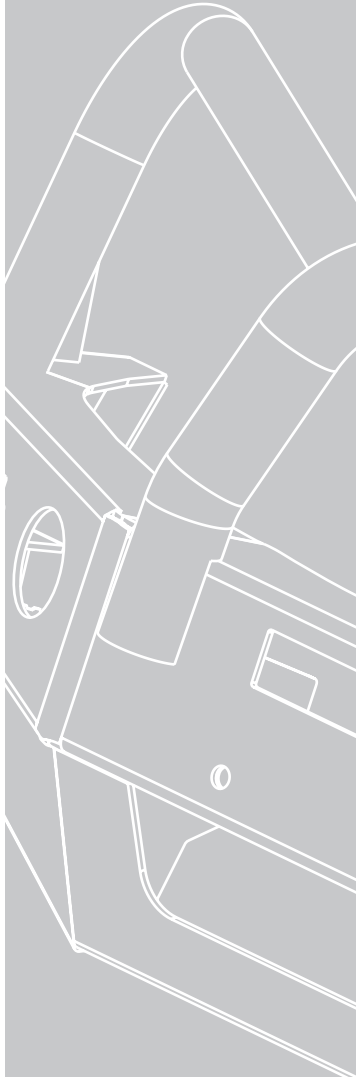
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_____ Full Name

_____ Date

REPLACES: 21.01.21

REVISED: 05.10.22



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Strongest Built Australian Made Lifetime Warranty

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