



TF8030 Terrafirma discrete winch mount for 2020on Defender 90, 110 and 130 diesel engine vehicles.

Terrafirma TF8030 is a comprehensive winch mounting kit specifically designed to fit the Terrafirma A12000 (TF3301) winch to a 2020on Diesel Defender. The kit includes a complete winch mounting system and an electrical wiring kit to enable the battery isolator, on off switch and remote-control socket to be positioned under the bonnet for easy access. The free spool lever is not accessible unless you are prepared to remove a section of grill, so it is necessary to pay out winch rope under power.

Removal and refitting of the front bumper is complicated and time consuming, take note of all the fixings and their locations, removing sections of trim and the bumper requires some force, take care not to damage or strain plastic parts.

You should allow a full day to carry out the winch installation and wiring.

Disconnect the battery. Access it by moving the driver's seat forward and lifting the hatch below, then loosen and remove the earth cable. Land Rover may call and confirm your vehicle isn't being stolen.



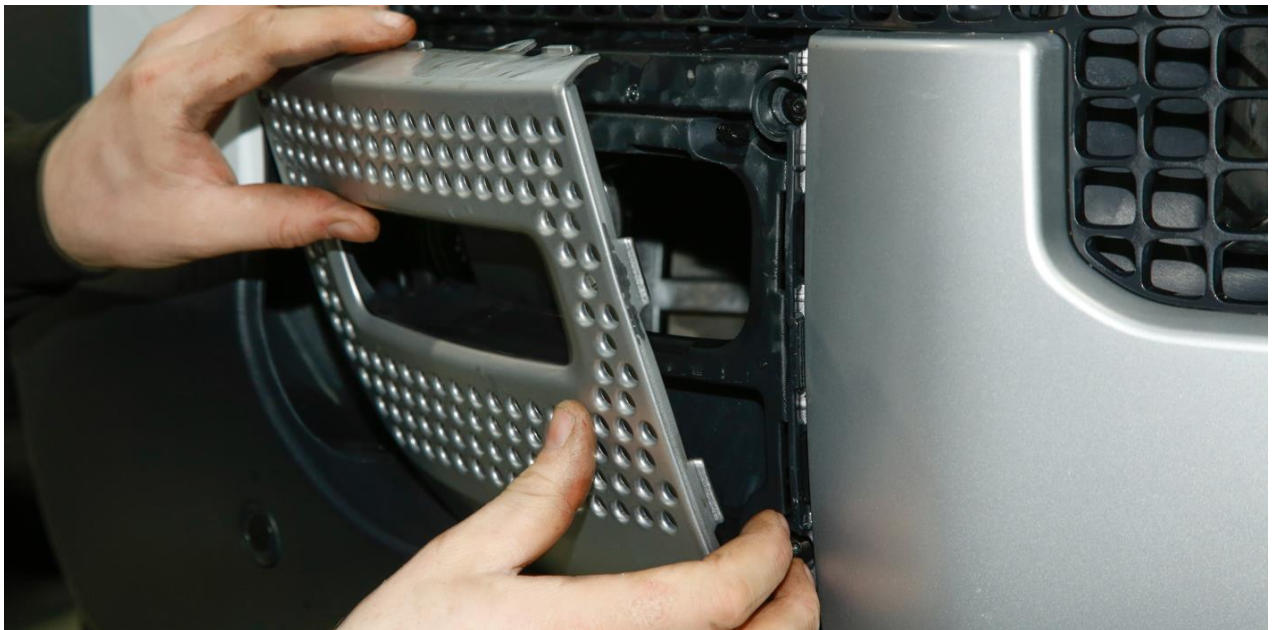
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Release the four plastic pins along the top of the slam panel, undo the four T27 TORX screws and remove the plastic cowl. Use a trim tool and long screwdriver to release the four clips down the side of each headlamp to free each side of the grille, then lift the grille away.



Use the trim tool again to access and press down the clips around the outside of each foglamp surround and lift them away. Now jack up the front of the vehicle, secure it on stands and remove the front wheels to gain access to the back of the bumper.



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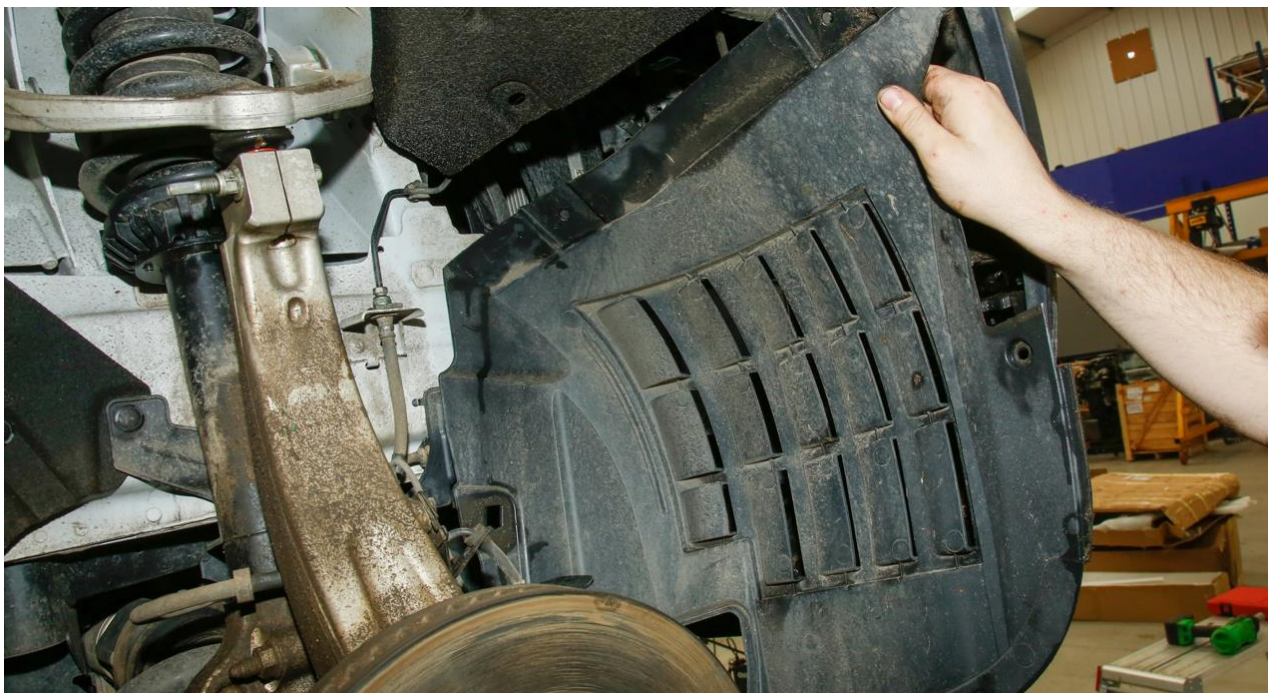
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Undo the six bolts that hold the aluminium bash plate from the underside of the front bumper, if fitted. Once off, the T20 screws that hold the silver section of the front bumper in place will be exposed; undo them but leave the bumper intact for now.



With the front wheels off, release the four plastic pin clips and four screws that secure each inner arch liner, then remove them. Release the tabs and remove the plastic brake ducts – once out of the way, undo the 10mm wing bolts and unclip the ends of the bumper.



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Unplug the two electrical connectors from the nearside of the bumper. Undo the 10mm screw each side, then carefully unclip the headlamp surrounds. Release the plastic headlamp washer tube connectors, then place the surrounds somewhere safe.



Undo the 10mm screws along the top and T30 screws along the base, then lift the bumper off. Let it rest on its back or sit it forward on a soft towel or sheet to prevent scratches. Attend to the silver bumper section later.



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Undo the 10mm screws and release the washer pipe and wiring harness, then remove the grille support. Undo the T30 TORX fixings, then pull the plastic air ducting away from the front of the crash bar. We will modify this to clear the new winch and tray later.



Loosen and remove the four 15mm bolts that hold the tubular lower crash bar in place and remove it. This will be refitted once the Terrafirma winch tray is in place and will be held to the bottom of the winch mount with dedicated brackets.



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Undo the eight 13mm bolts that hold the main crash bar to the chassis legs and undo the four 10mm bolts that secure the separate box section pieces to the radiator support. Lift the crash bar away, then prise the captive nuts off; these will be replaced with nut plates.



The plastic guard that runs behind where the crash bar was needs to be trimmed away. Carefully slice down the sides of the radiator duct, then remove the centre. Mask off the edges of the duct, mark out the measurements in the kit instructions and trim away.



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Unbolt the box section pieces from the top of the old crash bar with a 10mm socket and extension. These will need to be refitted to the new winch tray with the same bolts and new 8mm flange nuts, and secured to the front of the Defender in the same way they were fitted originally (do not tighten fully at this stage).



With assistance, lift the winch tray up and into place and push the top bolts through, allowing the tray to hang. Position the nut plates behind and start the new bolts by hand; nip them up just enough to hold the tray flush to the chassis, but still allow movement.

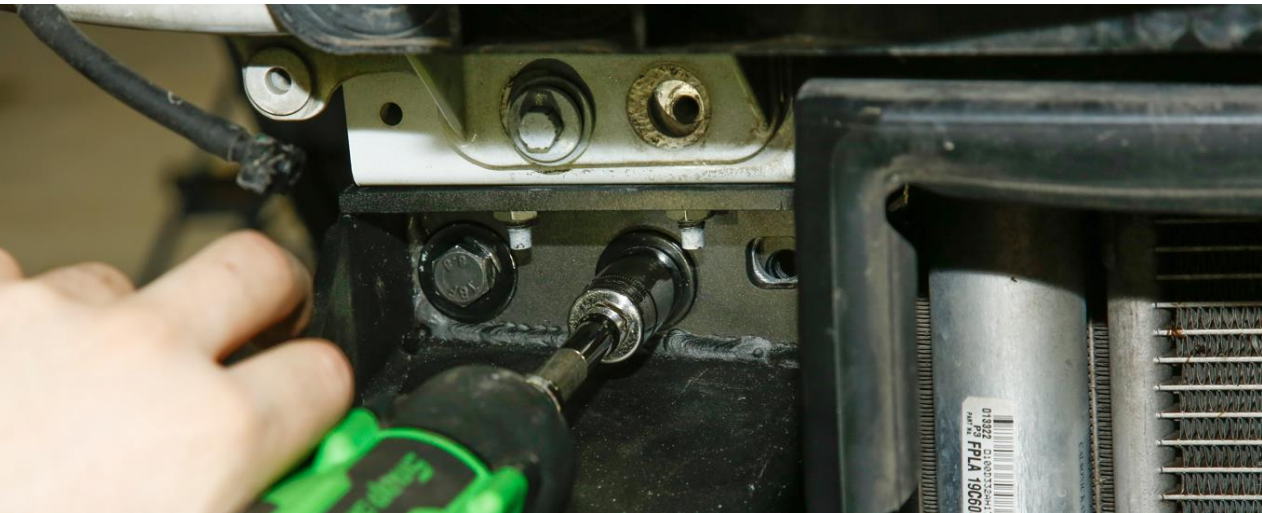
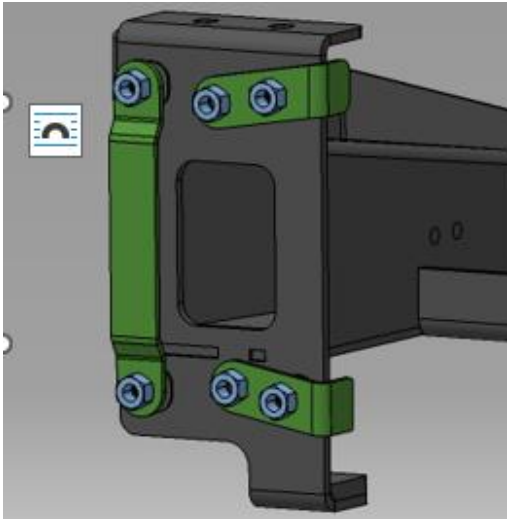


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Move the winch tray so that it sits centrally on the chassis, then fully tighten all the new 17mm bolts into the nut plates. Slide the box section pieces so that the witness marks in the paint line up with the heads of the original 10mm bolts, then tighten the bolts up.



With the main winch tray and original box section pieces tight on the chassis rails, use a spanner to reach down the box sections and fully tighten them down onto the tray, holding the new M8 flange nuts on the inside of the winch tray aperture.

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When fitting a Terrafirma A12000, the kit comes with a dedicated relocation bracket for the solenoid pack. Remove the metal backplate and swap the original mounting bracket for the one in the new kit. The space for the solenoid pack is tight, take care to use the most suitable bolt locations to position the solenoid pack correctly.

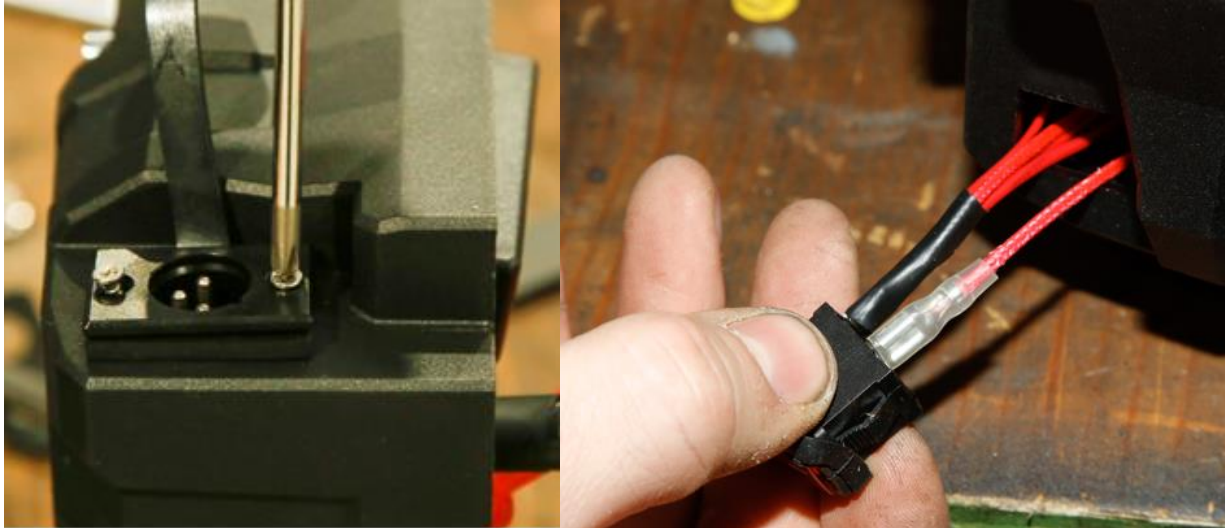


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The socket for the cable winch remote and the power switch will be relocated from the solenoid pack to a switch panel under the bonnet, for easy access. Unscrew the socket and pop out the switch, then extend the wires with the extension loom in the kit as follows:



Cut the red multiple wire connection with black connector to the on off switch and join the extension loom yellow wire with blue crimp connector to the red multiple wires. Connect the red spade connector on the other end of the yellow wire to 'O' side of the on off switch.

Cut the red single wire and connect the black wire from the extension loom using the red crimp connectors at both ends.

Cut the blue wire to the remote-control socket and connect the green wire from the extension loom using the red crimp connectors at both ends.

Cut the black wire to the remote-control socket and connect the black wire from the extension loom using the red crimp connectors at both ends.

Cut the red wire to the remote-control socket and connect the red wire from the extension loom using the red crimp connectors at both ends.

This should now allow you to assemble the switch mounting plate under the bonnet to control the winch.



Take the extended power and earth cables from the solenoid pack and attach them to the winch motor. The cable insulation is colour coded to the posts on the motor body, so be sure to connect them the correct way, and run them away from the winch body.



Fit the 4 square nuts to the feet of the winch then, with the rope protruding out at the front, carefully lower it into the new tray. Look underneath and line up the mounting holes with the holes in the tray and start the two rearmost bolts by hand.



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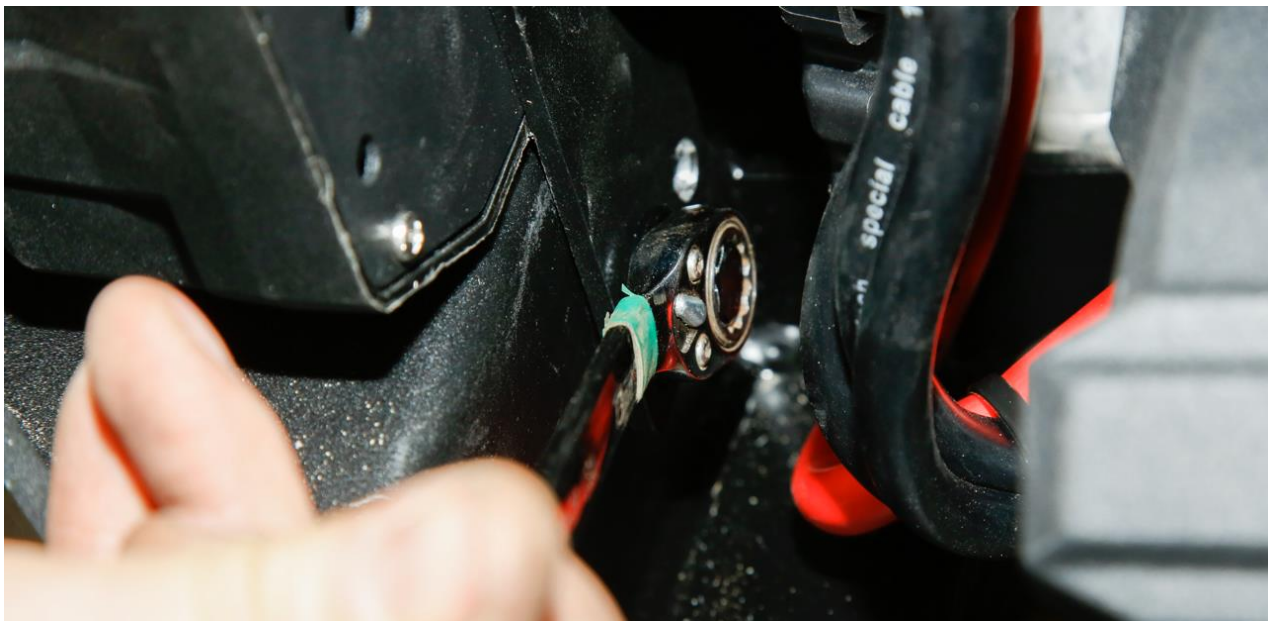
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Nestle the solenoid pack in the tray beside the winch, then take the length of conduit from the kit and run the red power and black earth cables through it. Feed the power and earth cables up past the side of the radiator and into the engine bay. Split conduit is provided in the kit to protect the electrical cables when routing through the bodywork.

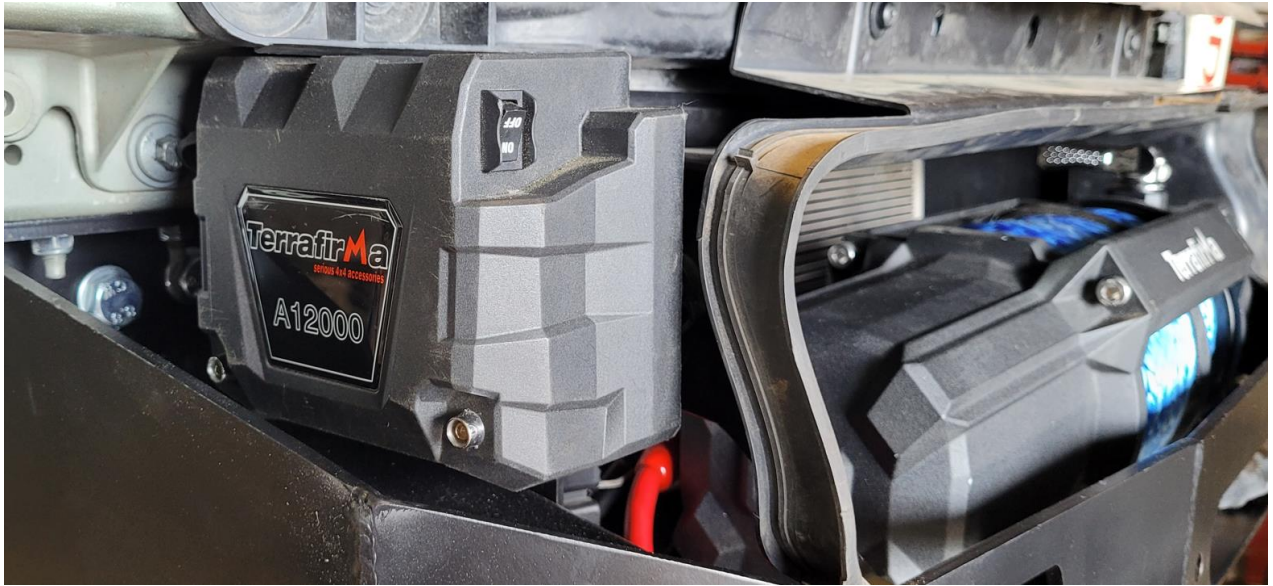


Position the solenoid in the side of the winch tray, make sure the wiring is sitting neatly then fit and tighten the supplied M8 bracket bolts. Secure the wiring with cable ties, then remove the paint and attach the solenoid earth to the stud on the back of the square section.

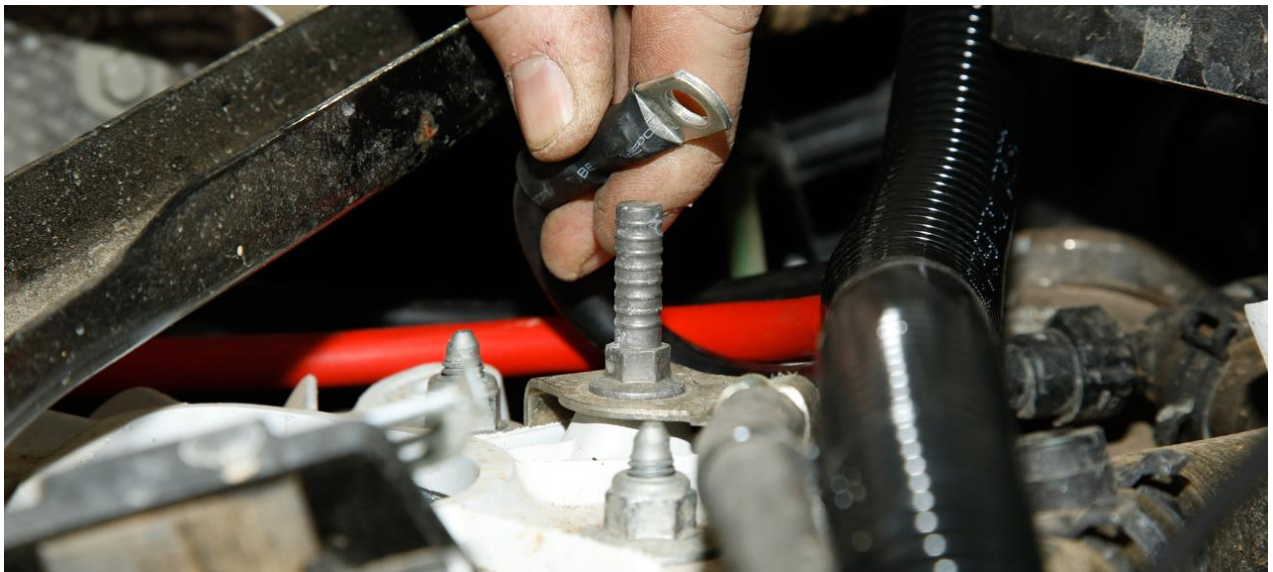


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Route the black earth and red power cables around the inside of the inner wing and up to the rear left corner of the engine bay. Undo the nut on the earth jumper post, fit the earth cable beneath it, then spin the nut back on and nip it up.

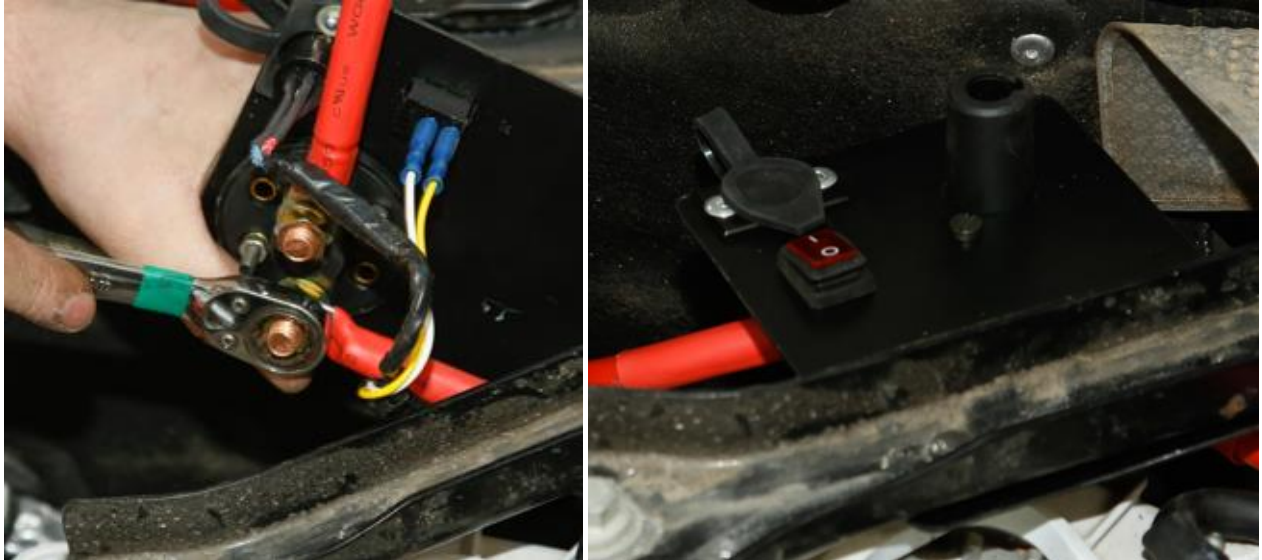


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Attach the winch isolator, power switch and remote control socket to the switch panel, then connect and insulate the wiring, paying special attention to the posts on the isolator. Drill and bolt the switch plate to the steel strut brace.



The Defender L663 has convenient pre-wired power posts in the engine bay. Unclip the cover and fit the winch power cable that runs to the isolator switch to one of the posts, along with a 500A mega fuse, and secure both with M8 flange nuts. Refit the cover.



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Next, the perforated bumper insert can be unclipped and removed, ready to have the hole cut for the winch fairlead to protrude through. Remove the front number plate and cut away the single strip of plastic from the main bumper, which the insert sits in front of.



Take the fairlead and feed the winch rope through the slot; you may need to free spool some rope off the winch drum first. Push the two bolts through, then fit the fairlead to the front of the winch mount and secure it with washers and nuts.



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The lower crash bar can be bolted back onto the Defender. Offer it up and start the original lower fixings by hand, then attach it to the underside of the Terrafirma winch tray with the new nuts, bolts, and washers from the kit. Once central, tighten them all up.



Use a sharp knife or saw to cut the two half-moon pieces off the main bumper plastic, then turn your attention to the air ducting. Cut out the paper template and tape it to the duct, making sure it's central. The duct will be cut into two pieces to clear the tray.



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Carefully cut the duct with a hacksaw blade or grinder and slitting disc, following the edge of the template. Drill pilot holes where marked and enlarge them to 10mm, then use a file to make the two half-moon shapes. Remove the template.



Take the new bracket from the winch tray kit and bolt it up to the underside of the mount into the square nuts in the base of the winch. This will support the lower piece of air duct, which helps direct cool air through the radiator, keeping the cooling system efficient.



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Hold the lower duct piece up and use the two M6 screws to attach it to the bracket you just fitted to the tray. Here, you can see the need for those half-moon shapes cut into the duct – they're needed to clear the winch securing bolt heads.



Use a saw to cut through the upper piece of ducting, removing the supports and lower horizontal piece. Cut up to the edge of the lower corners, as shown, so that the duct corners sit neatly on the winch tray when in place. Test fit and trim as needed.



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Once trimmed, fit the upper duct piece to the front of the Defender and secure with the OE TORX screws you removed earlier. Line up the witness marks on the duct with the screw heads and tighten them up. You can now see the need for cutting it in half...



The front of the winch tray has two holes, which the centre parking distance control (PDC) sensors recess into. Route the wiring harness and position the two plugs so they poke through the holes in the tray; this will make refitting the bumper easier.



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Fit the grille support followed by the main bumper, remembering to plug in the PDC sensors and route the washer tubing back. Clip the sides of the bumper back on and secure, then refit the brake ducts and inner wing panels. Secure with the correct screws and pins.



Refit the headlamp surrounds and plumb the washer nozzles, then clip the foglamp surrounds back in. Fit the upper grille, then finally the slam panel cover, being sure to use the correct fixings in the right places. Leave the metal bash plate off for now.

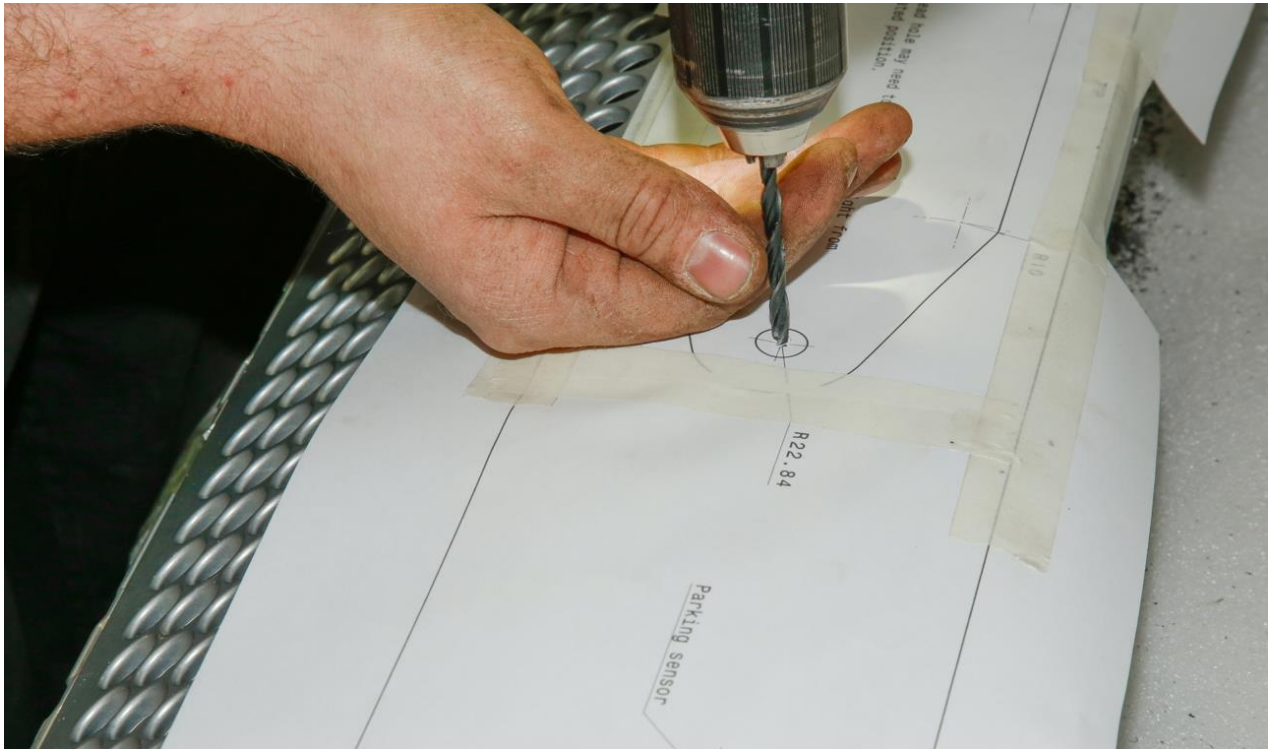


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Lay the silver bumper centre section on a soft surface, then cut out and stick on the final template from the kit. Drill the two small holes marked on the fairlead, but don't cut or drill anything else just yet. This is a time when 'measure twice, cut once' is relevant!



Make a cross or dot in the middle of each of the fairlead bolt heads with a marker pen or blob of paint. This will help assure that the fairlead cut-out template is perfectly positioned before you commit to making the full cut on the silver bumper finisher.

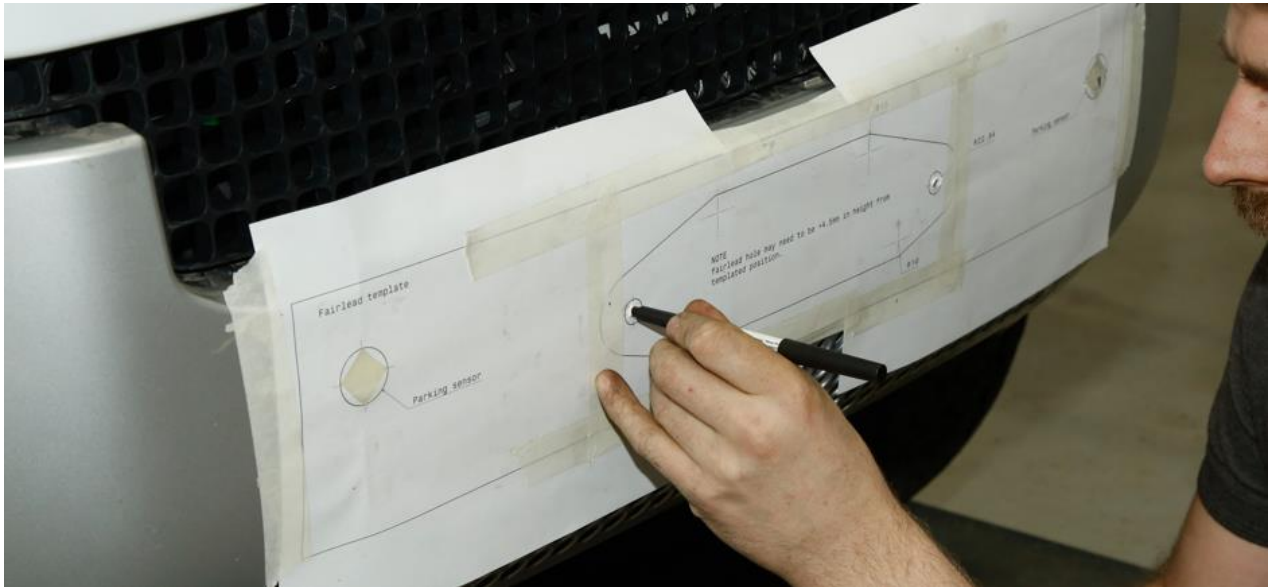


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Offer the silver piece up to the bumper but don't clip it into place. Look through the holes you drilled, and make sure they line up with the marks in the centres of the fairlead bolt heads. The trim should be a snug fit around the fairlead, so it's important to get this right.



Use hole saws to cut the corners of the fairlead aperture, then carefully join the holes together with a sharp knife. File the edges smooth and check the fit of the panel, adjusting if needed. When happy, clip the panel on and secure, then refit the bash plate.



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Attach the hook to the rope's eyelet with the supplied retaining pin and split pin. The battery can now be reconnected, and the winch spooled in just enough to pull the hook flat against the fairlead. Wear gloves.



The number plate plinth simply screws to the bumper, then the number plate itself is stuck or screwed to a removable fascia that's secured with two DZUS fasteners. When the winch is needed, simply unclip the fascia to access the hook and fairlead.



And you're done.....

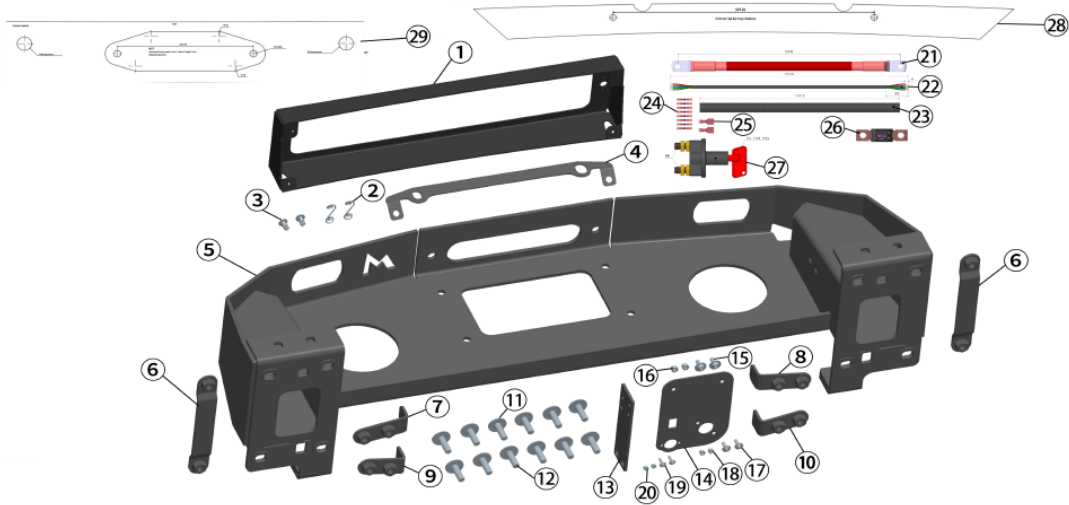
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No.	Description	QTY
1	Number Plate	1
2	Fastener Spring	2
3	Fastener Bail handle and retainer	2
4	Duct bracket	1
5	Winch mount welded assembly	1
6	Nut plate outer	2
7	Upper inner nut plate (LH)	1
8	Upper inner nut plate (RH)	1
9	Lower inner nut plate (LH)	1
10	Lower inner nut plate (RH)	1
11	M10 washer	12
12	M10*35mm Screws	12
13	Soleniod mounting plate	1
14	switch panel	1
15	Cap screw M6*15mm	2
16	M6 locknut	2
17	Cap screw M5*15mm	2

No.	Description	QTY
18	M5 locknut	2
19	Cap screw M4*15mm	2
20	M4 locknut	2
21	Battery lead	1
22	5 wire harness	1
23	conduit	2
24	22-16awg barrel crimp	8
25	22-16awg 2.8mm female spade terminal	2
26	mega fuse	1
27	battery isolator	1
28	Internal rad ducting template	1
29	Fairlead template	1

TerrafirMa
Serious 4x4 Accessories

ITEM #	DRAWING TITLE	REV
TF8030	L663 Winch Mounting Kit	3

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