



INSTALLATION GUIDE

FORD RANGER 2022 ON

PN: SMRHEAF185SY



RECOVERY HOOKS

FOR USE WITH ECB, F185 PRODUCT RANGE

NUDGE BAR

AND CHANNEL PRODUCTS

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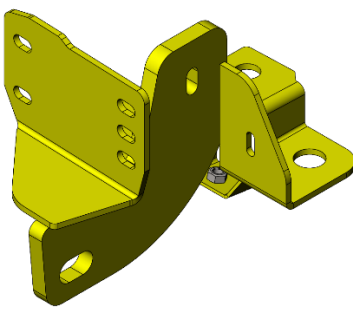
INSTALLATION KIT

INSTALLATION KIT - BULLBAR

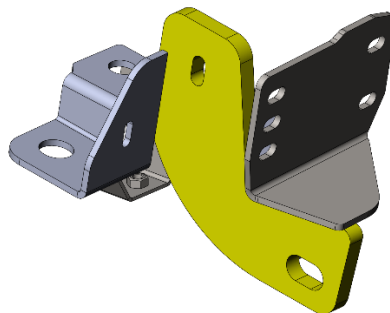
1 - LH Recovery Hook	4 - M12 Flat Washers
1 - RH Recovery Hook	2 - M12 Spring Washers
2 - 40 x 40 x 6 - 13H Flat Steel Washer	2 - M12 Nuts
2 - 8mm Steel Spacer Plate	10 - M8 x 40 Bolts
4 - 3mm Steel Washer Plate, 3 Holes	12 - M8 Flat Washers
2 - 30mm x 13mm Hole, 3mm Steel Washer Plate	10 - M8 Spring Washers
2 - M12 x 120 Bolts	4 - M8 Nuts

TORQUE LIST -

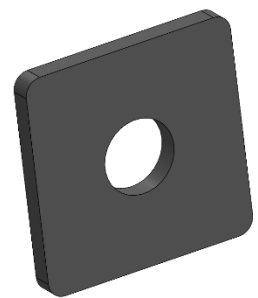
Diameter	Thread Pitch	Recommended Assembly Setting	
M14	2	122Nm	90 lbf. ft
M12	1.75	77 Nm	56.8 lbf.ft
M10	1.5	44 Nm	32.5 lbf.ft
M8	1.25	22 Nm	16.2 lbf.ft
M6	1	7 Nm	5 lbf.ft
M5	0.8	5NM	3.6 lbf.ft



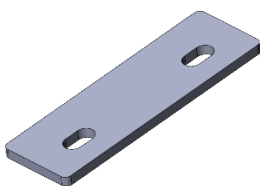
RH Recovery Point



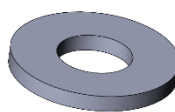
LH Recovery Point



40X40 X 6 13H Flat Steel Washer



8mm Steel Spacer Plate



30mm x 13mm Hole, 3mm Steel Washer Plate



3mm Steel Washer Plate, 3 Holes

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STAGE 1 - VEHICLE PREPARATION

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.



DISCONNECT BATTERY.

STAGE 2 - RADIATOR COVER

Thirteen (13) plastic scrivenets, remove plastic cover



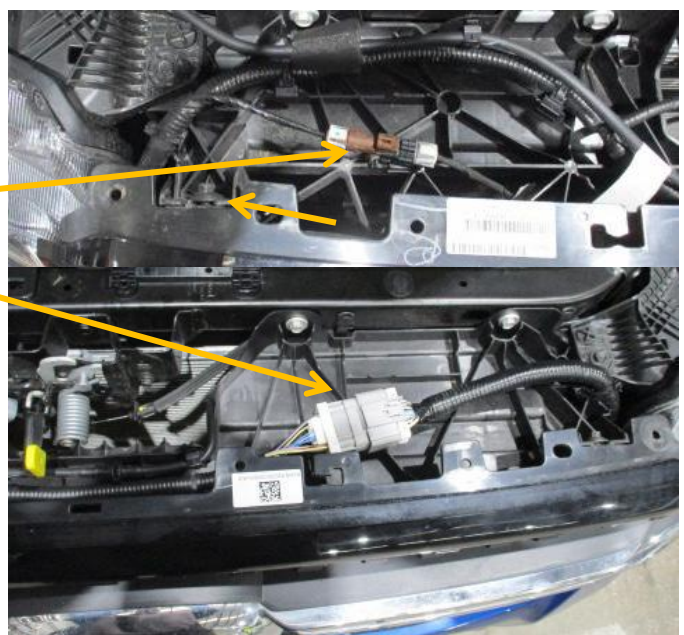
STAGE 3 - GRILLE ATTACHMENT

On rear of grille beside headlights remove one (1) 8mm head bolts (per side).

Disconnect camera and water line to camera.

Disconnect parking sensor/ sonar harness.

Unclip Parking sensor plug from top of radiator cover and feed harness down inside behind grille for connection once Protection Bar is fitted.



STAGE 4 - UNDERSIDE CORNERS

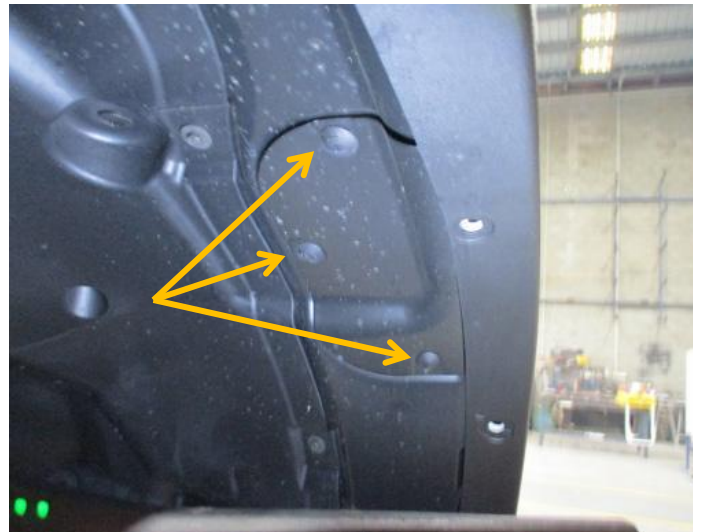
Underside of bumper remove one (1) T25 torx screw (per side) and 8mm head bolt, second bolt in from end (per side).



STAGE 5 - INNER WHEEL ARCH

From Inner wheel arch remove four (4) push pull clips from inner flare (per side).

On Inner guard cover, remove three (3) plastic scrivenets. Remove cover to access inner bumper cover/ guard join.



STAGE 6 - GUARD BUMPER JOIN

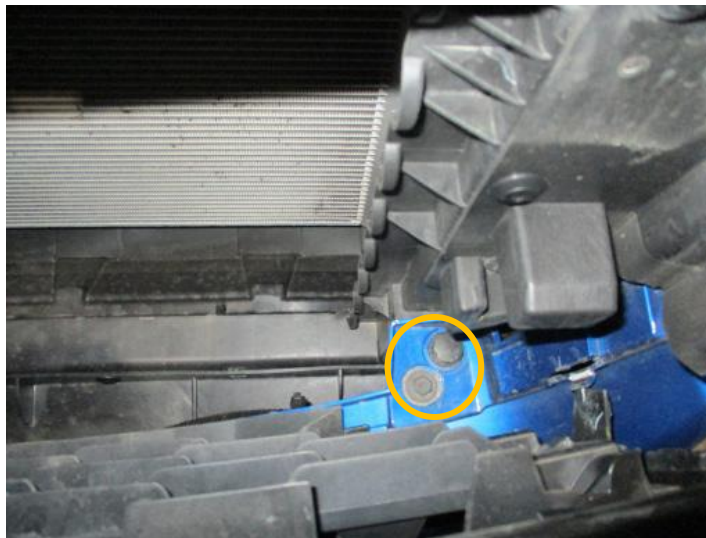
Inside of bumper/guard join, remove three (3) 10mm head bolts (per side).



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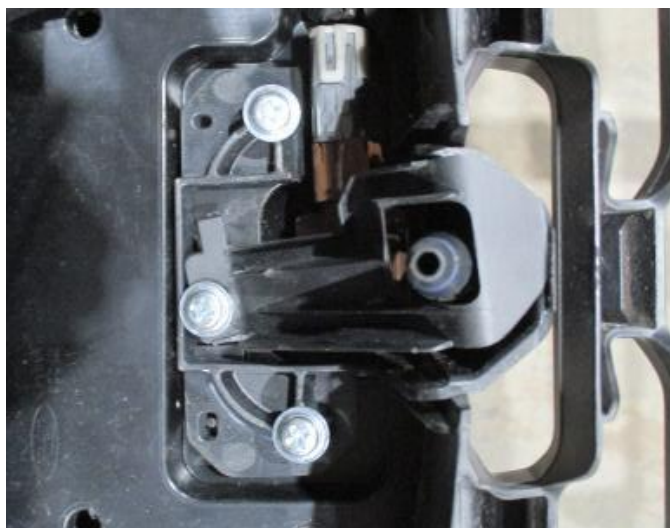
STAGE 7 - BUMPER TOP

From sides and underside of bumper, remove two (2) 10mm head bolts and one (1) plastic center pull clip from sides of bumper and four (4) 10mm head bolts from underneath bumper.



STAGE 8 - CAMERA DISCONNECTION

Disconnect camera cable and camera washer hose, from rear of camera housing.



STAGE 9 - BUMPER REMOVAL

Carefully pull flares away from vehicle. From inside inner guard squeeze retaining clip and gently pull down on bumper to remove.

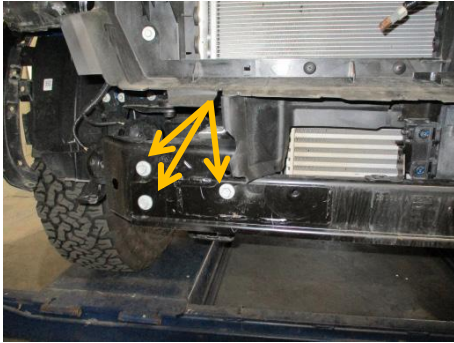
Remove bumper.



STAGE 10 - BUMPER INFILL

Remove foam from bumper infill two (2) push pull clips.

From front of chassis rail remove six (6) 13mm head bolts and remove bumper support.

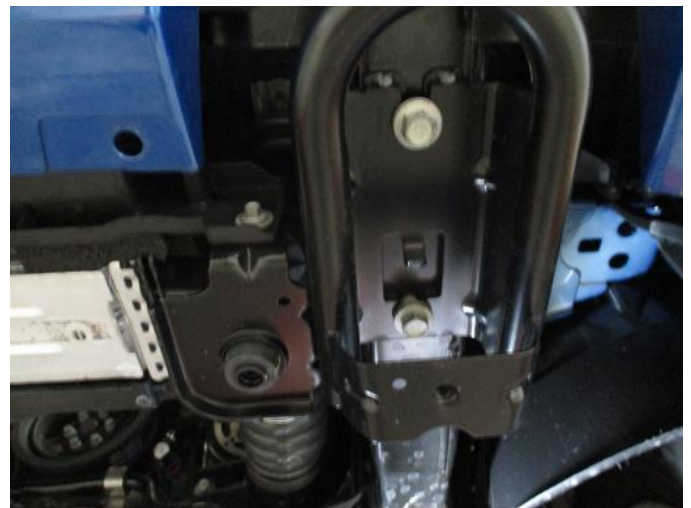


STAGE 11 - ORIGINAL TOW HOOKS

Loosen two (2) rear bolts on underbelly guard and remove front two (2) bolts, slide guard forward and remove.

From underside of chassis rail remove tow hook/intercooler supports, two (2) 15mm head bolts (per side) and one (1) 8mm head bolt on intercooler air dam. **Retain bolts for refitment.**

Support intercooler on removal of tow hook brackets.

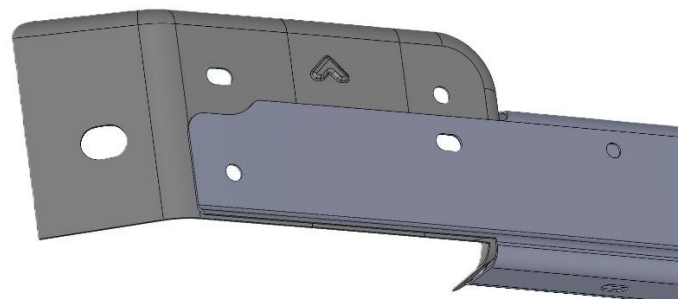


STAGE 12 - BUMPER SUPPORT ADJUSTMENT

From the photo, mark the bumper support. This allows refitment to the vehicle around the Recovery Hooks.

Cut bumper support using a grinder with cut off wheel/ jigsaw or similar.

Blow filings clear and treat all exposed metal with a rust inhibitor.



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STAGE 13 – RECOVERY HOOKS

Recovery hooks slide in between cross member and end of chassis rail and pick up intercooler. Ensure rubber supports on intercooler sit into holes on recovery hook and top of intercooler mount on vehicle.

Use M12 x 120mm bolt, 40 x 40 x 6 washer plate to outside of rail, flat washer, spring washer and M12 nut. Slide bolt from outside to inside.

Do not tighten yet.



STAGE 14 – RECOVERY HOOK SPACER

Place Nudge Bar mount between rail and recovery hook. Nudge bar mount to outside of chassis rail.

If fitting without Nudge Bar: Place 8mm spacer plate between rail and recovery hook.

Replace 15mm head bolts previously removed from tow hook. **Finger tighten only.**



STAGE 15 – CROSS MEMBER REFITMENT

Refit Cross member to front of rails.

Align holes and fit 3mm steel washer plate washers M8 x 40mm bolts, large flat washers and spring washers where captive nuts are used on end of chassis rail.

Drill one inner and top outer holes using 3mm steel washer plate as a guide to 9mm. Use M8 x 40mm bolts, flat washers, spring washers and nuts. **Finger tighten only.**

Align mounts and recovery hooks. Ensure intercooler is mounted correctly. Use original bolts to secure underside of recovery hook and 3mm steel washer plate in rear hole.

Tighten all bolts.



STAGE 16 – BUMPER RE-INSTALLATION

Refit bumper in reverse as per steps 2 to 9.

STAGE 17 – UNDERBODY GUARD

Slip original underbody guard onto rear bolts and using original screws, mount front to recovery hooks.

NOTE: ECB Underbelly guard shown.



STAGE 18 – BATTERY AND CHECKS

Reconnect battery.

- Check all safety features are working correctly.
- Ensure these instructions are left with the vehicle owner and/or operator.

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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

IMPORTANT INFORMATION

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

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REVISED: 09.04.26