



INSTALLATION INSTRUCTIONS
GA32602004 TUBULAR FLEET BAR
300 WIDE CAB

PLACE THESE INSTRUCTIONS IN VEHICLE GLOVE COMPARTMENT AFTER INSTALLATION

Care Instructions:

Check bolt torque settings at 5000 km and at recommended service intervals when driving on asphalt roads.

When used in extreme service, look over product on vehicle morning check, check bolt torque settings at 1000 km and every 10,000 km thereafter.

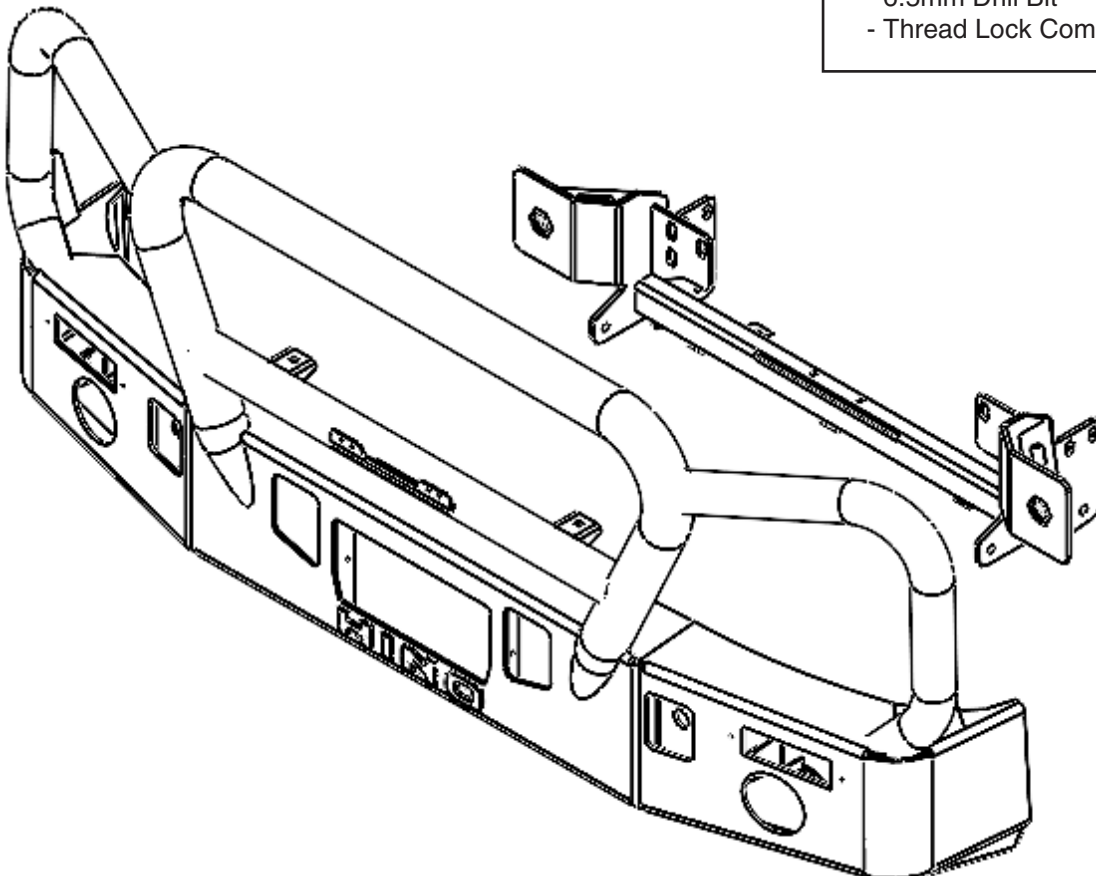
Parts List: Check contents of kit before commencing and report

ITEM NO.	DESCRIPTION	QTY
1	Bullbar Assembly	1
2	Mount Assembly	1
3	Pair Electrical Cable Harness	1
4	Bolt Kit	1

Installation Time:

Required tools:

- 10 mm Socket
- 13 mm Socket
- 19 mm Socket
- 22 mm Socket
- 24 mm Socket
- 10 mm Spanner
- 13mm Spanner
- 16 mm Spanner
- 22 mm Spanner
- Flat Blade Screwdriver
- Side Cutters
- Long Nose Pliers
- Spirit Level
- 6.5mm Drill Bit
- Thread Lock Compound





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INSTALLATION KIT

2	3 Hole Triangular Washer Plates	6	M8 Spring Washers
1	Pair LED Fog Light Brackets (LH &RH)	5	M6 x 20 Bolts
2	40 x 40 x 4 (15mm Hole) Square Flat Washer	2	M6 X 25 Black Combo Screws
2	M14 x 1.5 x 70mm Bolts (Grade 10.9)	2	M6 Spring Washers
2	M14 x 1.5 x 60mm Bolts	5	M6 Nuts
1	M14 x 1.5 x 40mm Bolt	4	M5 x 20 Stainless PK Screws
1	M14 x 1.5 x 30mm Bolt	2	M5 X 12 Stainless PK Screws
11	M14 Flat Washers	2	M5 Flat Washer
4	M14 Spring Washers	4	M5 Stainless Nyloc Nuts
6	M14 x 1.5 Nyloc Nuts (2 Nuts to Replace Hinge Nuts)	6	300mm Zip Ties
4	M10 x 1.5 x 25 PK Bolts	2	Indicator and Parking Light Harness (IC26H1300IPWH)
8	M10 Flat Washers	1	Tilt Sticker
4	M10 x 1.5 Nyloc Nuts	10	150mm Zip Ties
6	M8 x 35mm Bolts	1	Medium Thread Lock
6	5/16 x 1 x 16 Flat Washers		

TORQUE GUIDE

DIAMETER	THREAD PITCH	RECOMMENDED ASSEMBLY SETTING	
M8	1.25mm	22Nm	16.3lbft
M12	1.75mm	76Nm	57lbft
M14 ¹	2mm	122Nm ¹	90lbft ¹
M27	3mm	Hand tightened firmly only as overtightening will damage nylon washer	

CAUTION: Ensure cabin hinge bolts are tightened to correct torque setting.

NOTES:

1. M14 x 70 bolts used to secure Bullbar to steel mount require to be tightened only to touch the alloy mount firmly. Over-tightening of this bolt will result in damage to the Bullbar and possible inability to align Bullbar correctly to vehicle.
2. M27 bolts are used as securing bolts for the Bullbar. This allows the Bullbar to be release from the vehicle using the wheel spanner of the vehicle. Over-tightening of this bolt will damage the nylon washer causing possible vibration rattles to develop.



Figure 1

STEP 1

Park the vehicle on level ground and apply the park brake.

Check installation hardware and read fitting instructions before commencing.

Ensure all equipment in cabin is correctly secured or in a position so cab can be tilted.

Remove steel mount from Bullbar.

Retain fasteners for refitment.

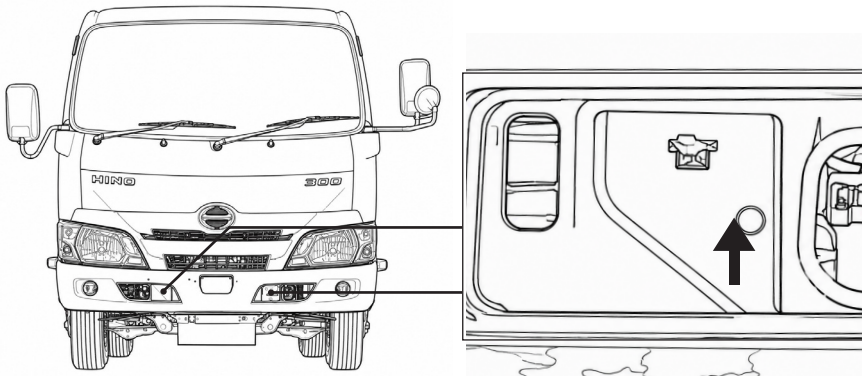


Figure 2

STEP 2

Remove three (3) 10mm head bolts from bumper opening between foglights (per/ side).

Disconnect fog lamp wiring loom in centre of bumper.

Remove bumper.

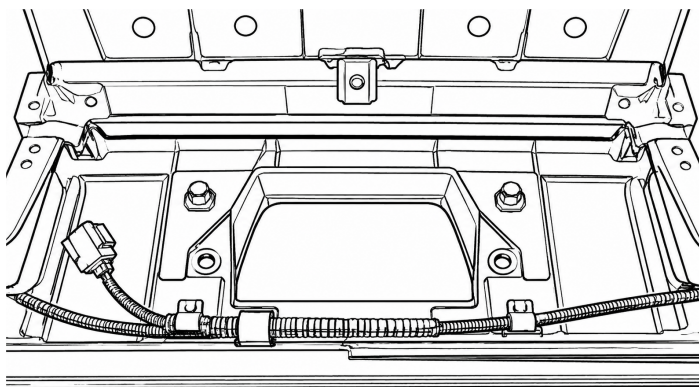


Figure 3

STEP 3

Remove four (4) white clips and 1 small clip.

Remove sonar lens from bumper cover.

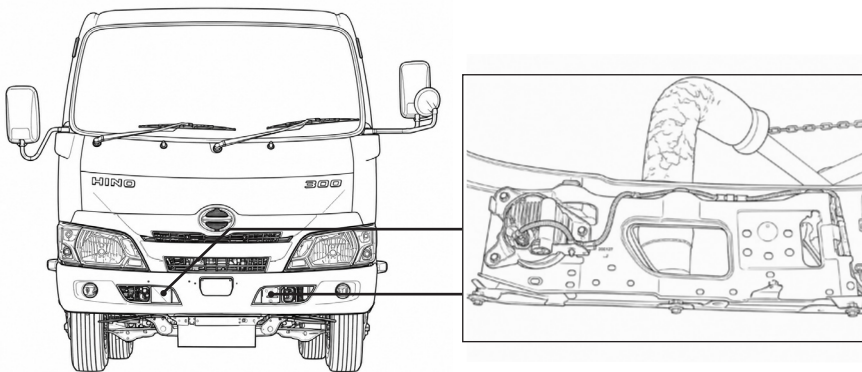


Figure 4

STEP 4

In rear of bumper, carefully disconnect and remove wiring harness.

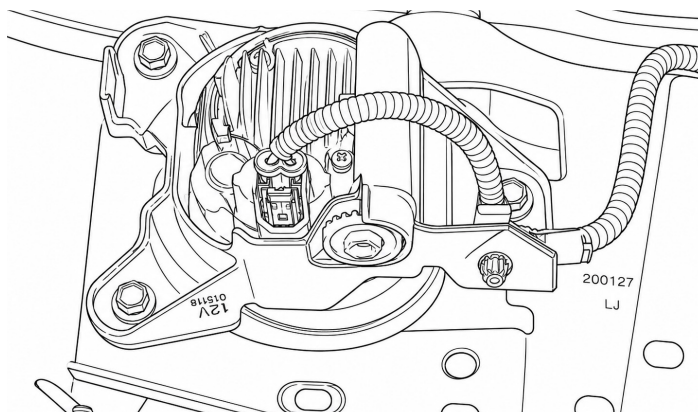


Figure 5

STEP 5

From plastic surround containing fog lights in rear of bumper, remove three (3) 10mm head bolts (per side).

Remove fog lights and plastic housing from bumper.

Figure 6a

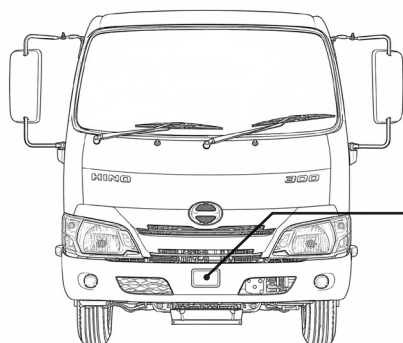
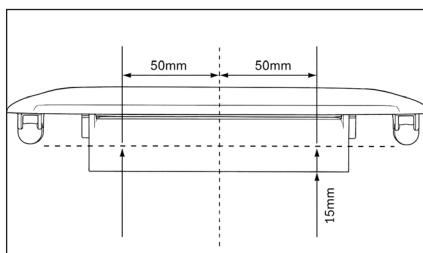


Figure 6b

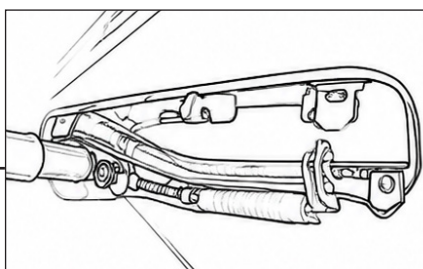
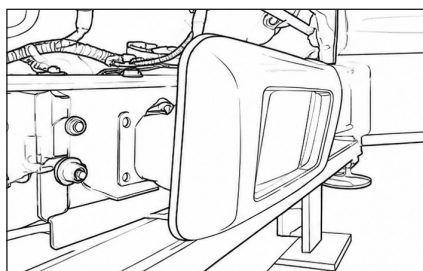


Figure 6c



STEP 6

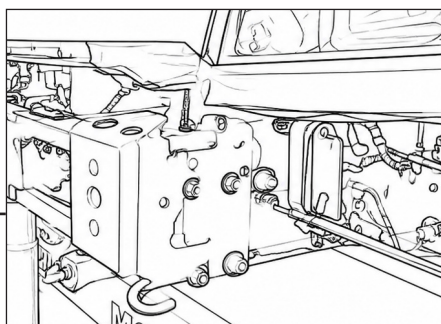
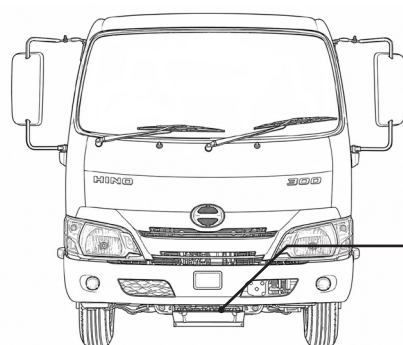
a. Measure between the nutserts in steel mount.

b. On Sonar lens lower flange, measure nutsert distance evenly from centre and 15mm from rear of flange. Double check on steel mount to ensure correct distance between hole markings.

Drill two (2) 8mm holes in lower flange to fit onto nutserts.

c. Relocate lense onto steel mount using two (2) M6 x 25 black screws, spring washers and flat washers.

Figure 7



STEP 7

Remove tow hook from passenger's side, two (2) 19mm head bolts.

Install tow hook to steel mount with M14 x 1.5 x 70 bolts, flat washers and Nyloc nuts.



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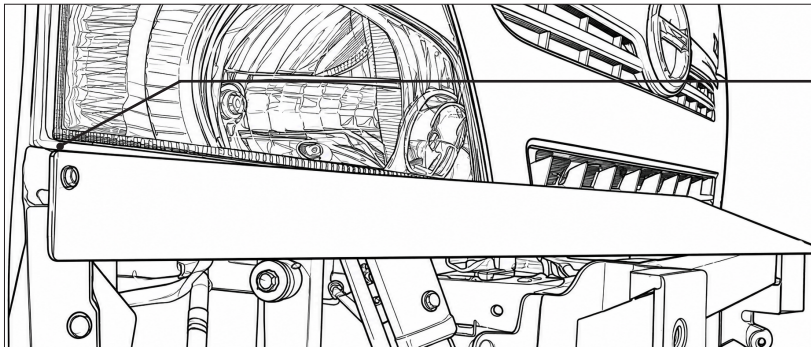


Figure 8a

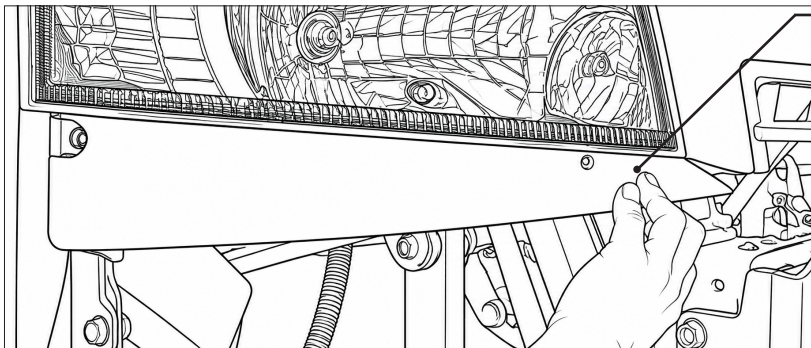


Figure 8b

STEP 8

Remove one (1) 10mm head bolt from lower outer corner of headlight.

Using removed 10mm head bolt, install under headlight infill to lower section of headlight.

Wrap headlight infill panel around headlight and secure to hole in headlight using M5 x 20 PK screw, flat washer and Nyloc nut through the headlight aim access hole.

Using last hole in infill, drill 5mm hole into lower plastic section of headlight. Use M5 x 20 PK screw, flat washer and Nyloc nut to secure.

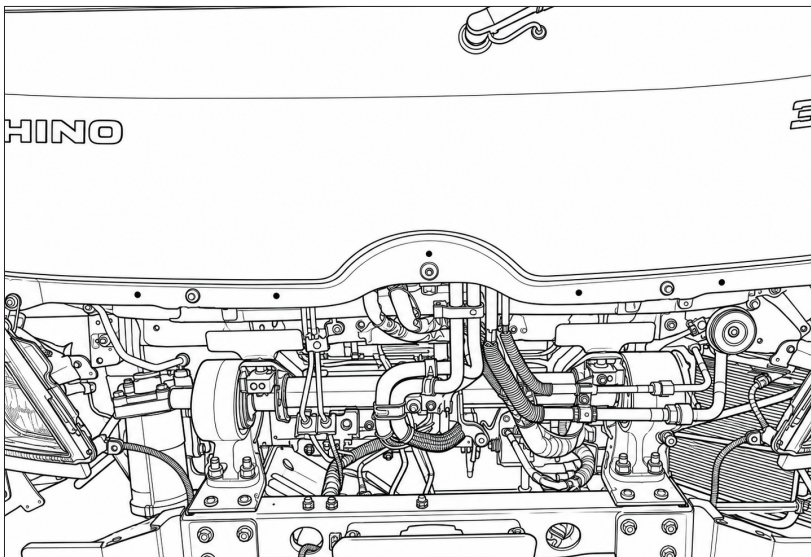


Figure 9

STEP 9

Remove grille, 1 x 10mm head screw from centre of grille. Carefully unclip from top and sides

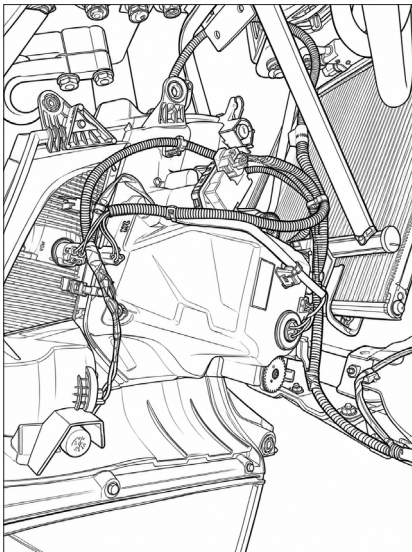


Figure 10a

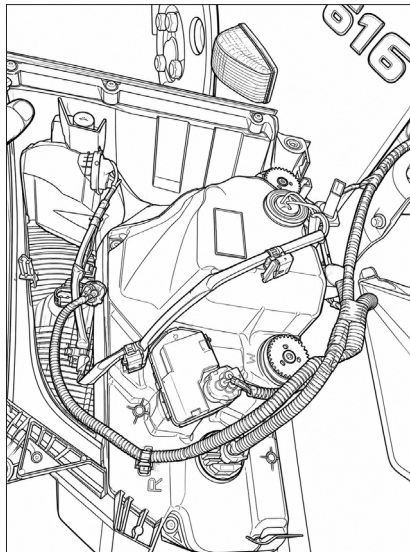


Figure 10b

STEP 10

From headlight, remove 2 x 10mm screws from inner headlight and 1 x 10mm head screw from lower outer headlight. Carefully pull forward to remove upper outer corner clip.

Disconnect indicator and parking lights on the vehicle. Remove indicator fitting from light and remove bulb. Refit light fitting without bulb.

Connect indicator to indicator side of light harness.

NOTE: Headlight indicator in vehicle is not reconnected.

Connect vehicle parking light harness to light harness and other side back to the light connection.

Repeat for opposing side

STEP 11

Reinstall headlights and grille as per reverse of steps 9 and 10.

STEP 12

Place wiring harness into centre of Protection Bar.

Feed harness to light openings through cut outs in internal Protection Bar supports.

Attach harness to harness clips in rear of Protection Bar using zip ties supplied.

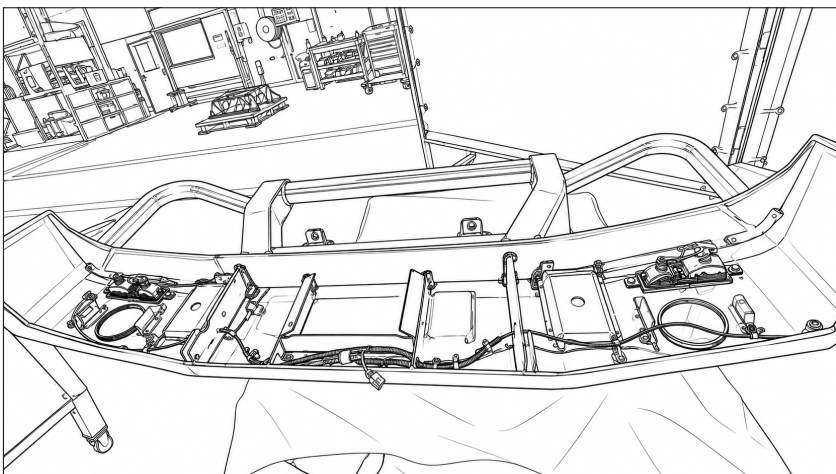


Figure 12

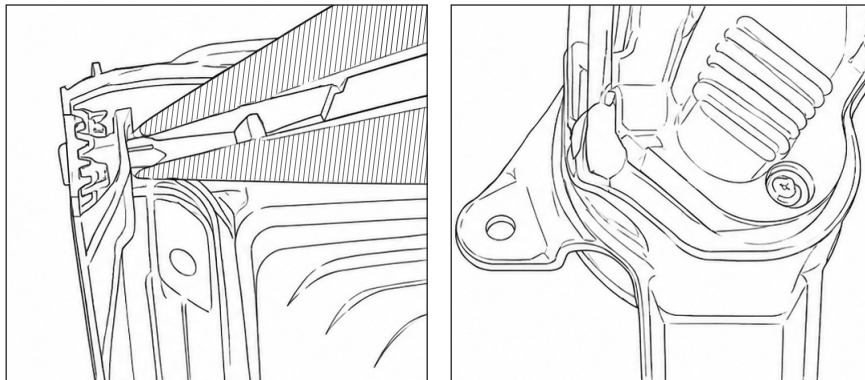


Figure 13

STEP 13

With a set of long nose pliers, crimp adjusting bolts hold in wing just to inside of casing and gently remove from casing.

Remove adjustment bolt from light. Using a flat blade screwdriver, gently pry sides of light away from casing and remove from casing.

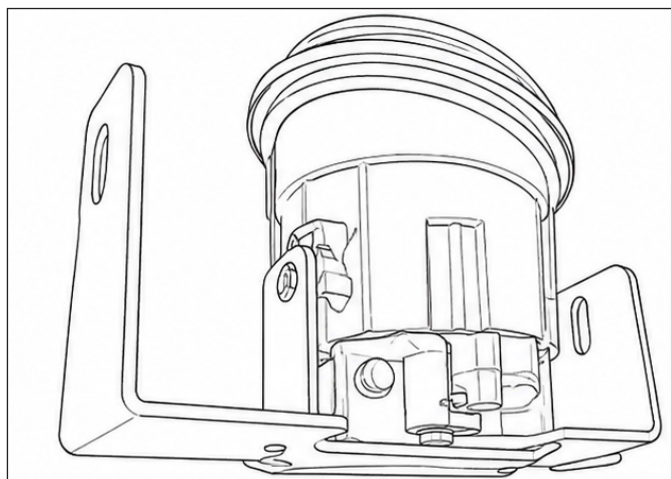


Figure 14

STEP 14

Please note, light brackets are sided.

Using correct mount for foglight side, place foglight between tabs and lock in position. Tabs may need to spread or shrink to lock into position on sides of light.

Attach to rear tab behind fog light using one M5 x 20mm PK screw.

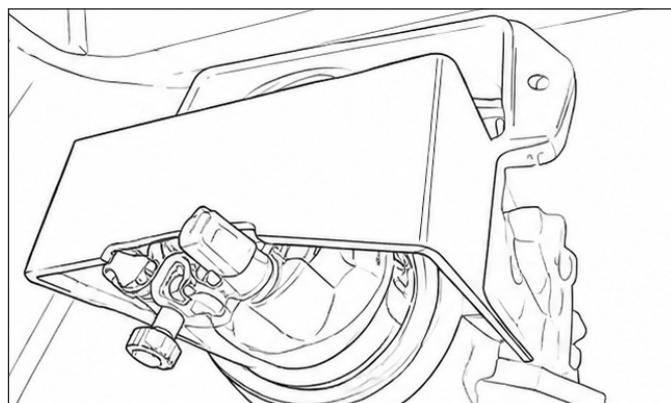


Figure 15

STEP 15

Attach fog light bracket to rear of Protection Bar using two M10 x 25 bolts, flat washers and nyloc nuts

Align light by adjusting at these points when Protection Bar is fitted to vehicle.

Tighten all bolts.

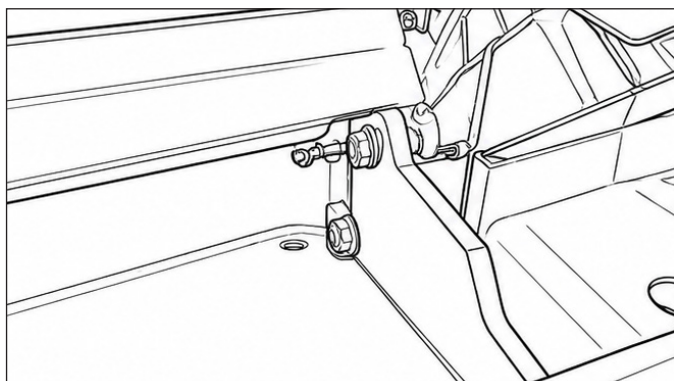


Figure 16

STEP 16

Place the bullbar onto the chassis mounts and install the M14 x 70 hinge bolts, flat washers and Nyloc nuts. Fasten until light pressure only is applied on the alloy mount plates.

CAUTION: Do not over tighten the hinge bolts. Overtightening will damage Bullbar and could cause it to become offset to the vehicle.

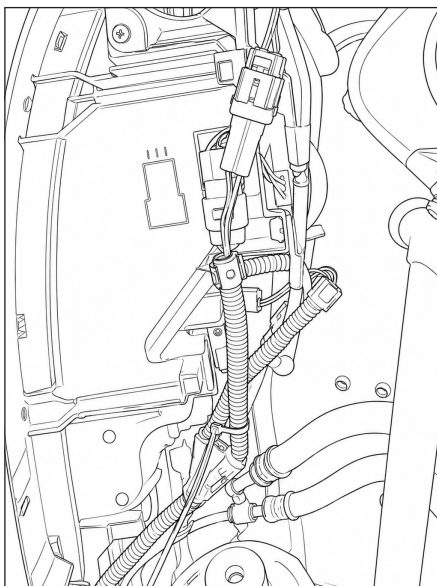


Figure 17

STEP 17

Zip tie Harness up underneath light with tail toward grille.

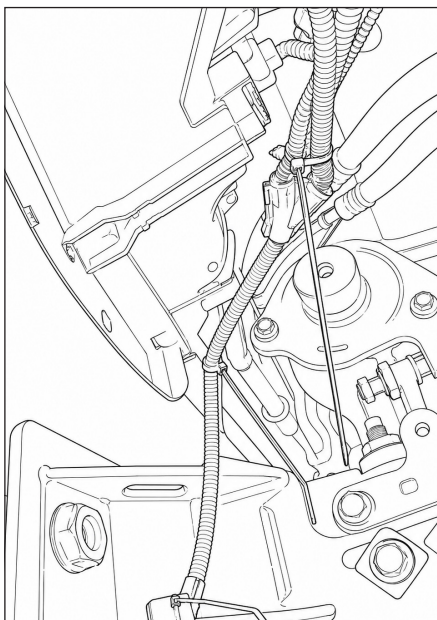


Figure 18

STEP 18

At connection point of lower head-light mount and grille, zip tie harness in place to rear.

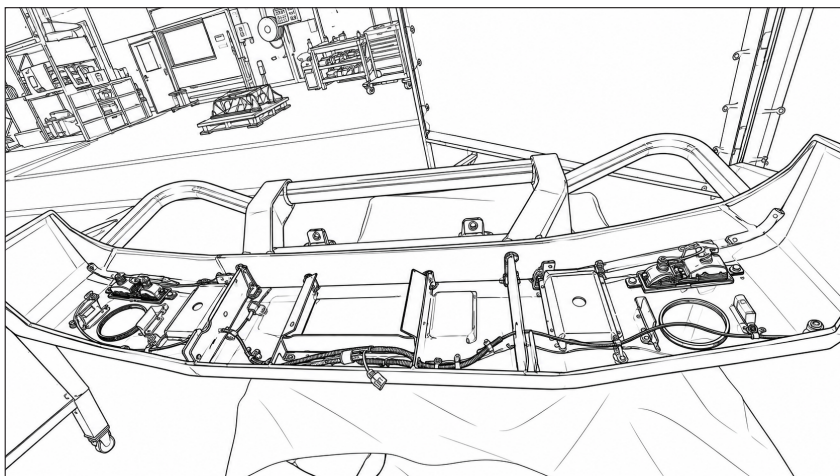


Figure 19

STEP 19

Working from other end of harness, feed connector through lower gusset on steel mount. Connect harness to indicator.

Attach harness to rear of Protection Bar on attachment tabs with fog light harness using zip ties supplied.

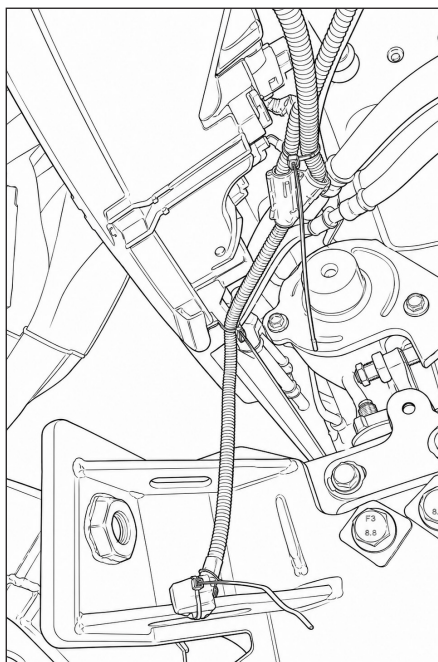


Figure 20

STEP 20

At steel mount, pick centre of remaining harness and attach harness to lower mount gusset using zip ties supplied.

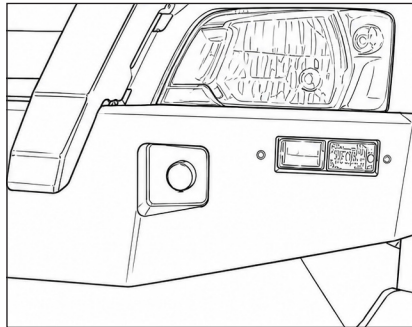
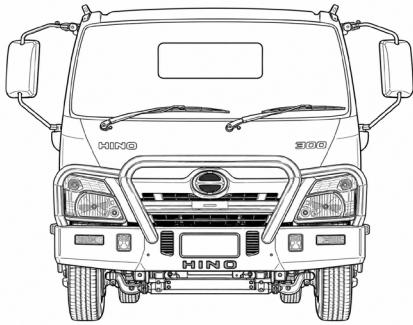


Figure 21

STEP 21

Tilt cabin to ensure cabin locks into position and does not hit Bullbar.

Connect wiring to park/indicator. Zip tie wiring harness to the original on the underside of the headlight. Ensure wiring is not tight when Bullbar is tilted.

Return cabin to locked position.

Lift Bullbar and check positioning of sonar guard. Adjust if required.

Fit locking bolts, flat steel washer and nylon washer. **Tighten firmly** using wheel nut wrench from tool kit of vehicle.

WARNING: Do not over tighten bolt.

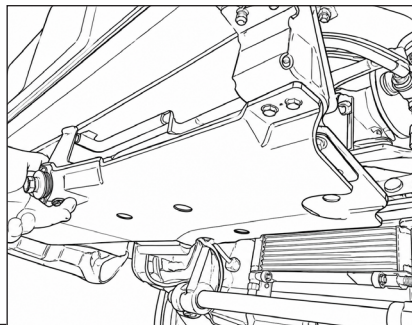
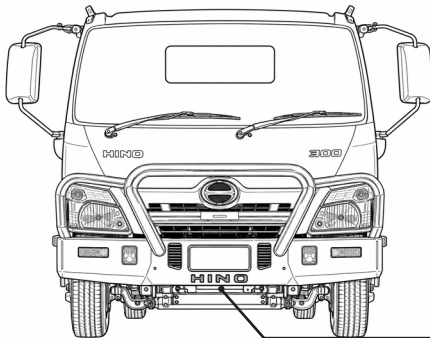


Figure 22

STEP 22

Refit original plastic under guard to rear of steel mount using five (5) M6 x 20 bolt, flat washers and Nyloc nuts.

STEP 23

Check all electrical equipment for correct operation.

Put cab tilt sticker onto vehicle near cab lock down handle.

NOTE: Two (2) M5 x 12 screws and Nyloc nuts have been included for installation of the number plate. Please ensure they are attached to the number plate bracket on the Bullbar.

**INTENTIONALLY
LEFT BLANK**



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INSTALLATION INSTRUCTIONS
B3HN6343SY TUBULAR FLEET BAR 300 WIDE CAB

REPLACES: 22.07.20
REVISED: 18.06.26