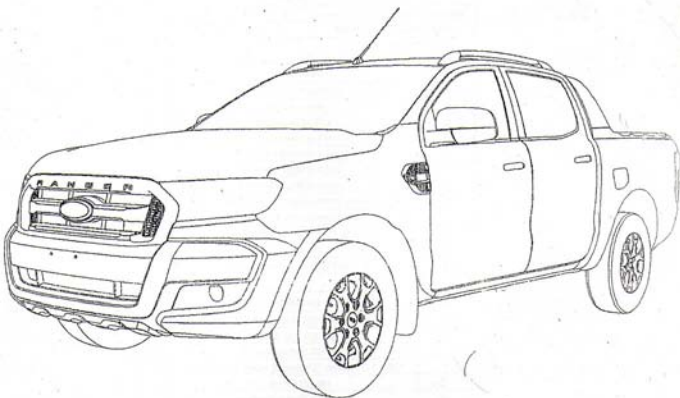


SNORKEL FITTING INSTRUCTIONS

Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No.	SKEB3B-9C654-A



SNORKEL FITTING INSTRUCTIONS

Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

Bolt tensions	Dia.(mm)	Nm	ft.lbs
All bolt tensions are as follows	6	10	7
unless otherwise specified,	8	15	11

	Description	Qty
A	Snorkel Roof Bracket	1
B	Snorkel Body	1
C	DAD Connector	1
D	Front Intermediate Tube	1
E	Rear Intermediate Tube	1
F	Snorkel Body Bracket	1
G	Snorkel Body Gasket	1
H	Front Intermediate Tube Bracket	1
I	Rear Intermediate Tube Bracket	1
J	Side Repeater Blanking Plate	1
K	Hose Clamp	1
L	Roof Bracket Foam Gasket	1

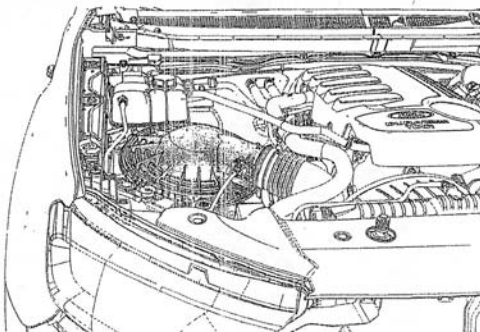
	Description	Qty
M	M8 x 1.25 x 16mm SS Button Head Socket Screw	1
N	M8 SS Flat Washer	1
O	M8 SS Spring Washer	1
P	M6 x 1.0 x 20mm SS Socket Head Button Screw	2
Q	M6 SS Dome Nut	3
R	M6 SS Spring Washer	2
S	M6 SS Flat Washer	2
T	M8 x 1.25 x 16mm Hex Head Bolt	5
U	M6 Flat Washer	7
V	M8 Spring Washer	6
W	M8 x 1.25 x 20mm Hex Head Bolt	1
X	M8 x 1.25 Hex Nut	1
Y	M6 x 1.0 x 16mm Hex Head Bolt	1
Z	M6 Spring Washer	1
AA	ø4.8 x 12.7 Aluminium Rivet	2
AB	1/4 x 1" Washer	3

Read instructions fully before commencing fitment.

SNORKEL FITTING INSTRUCTIONS

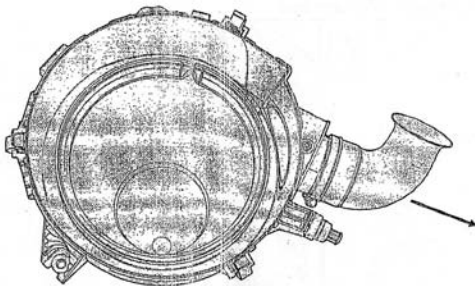
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No.	SKEB3B-9C654/A

1



Remove air box from vehicle. (REF to Workshop Manual)

2



Remove dirty air duct, by releasing the clamp

SNORKEL FITTING INSTRUCTIONS

Product:

Snorkel Assembly-EB3B-9C654-A

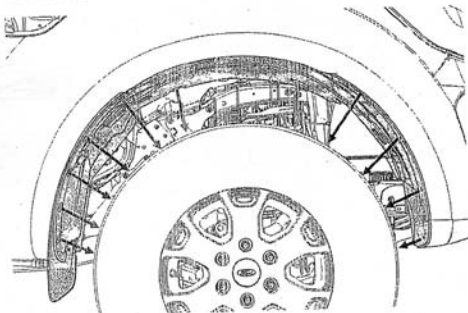
Vehicle:

Ranger Diesel July 2015+

Part No:

SKEB3B-9C654-A

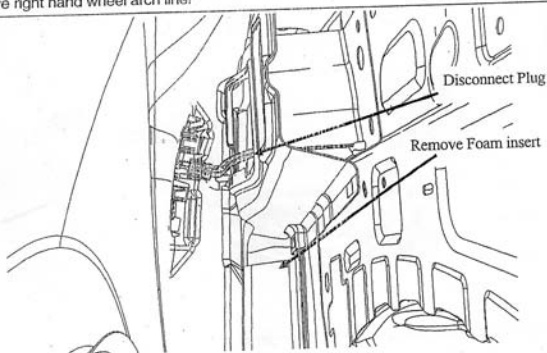
3



Jack up front of vehicle

Remove right hand wheel arch liner

4

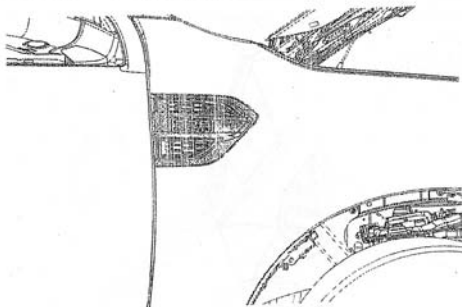


Remove the foam insert from inside resr of guard
Disconnect wiring loom if side indicator fitted to vehicle

SNORKEL FITTING INSTRUCTIONS

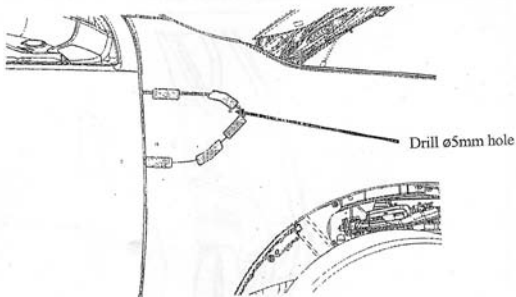
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

5



Remove fender grill insert from vehicle by compressing clips on inside of fender
If fitted with indicator, remove from fender grille insert and retain

6

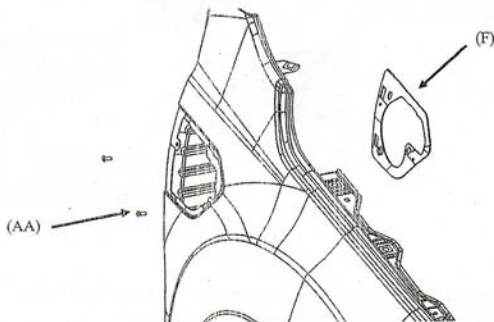


Attach supplied template to fender and drill ø5mm hole where indicated
Debur sharp edges and treat surface with rust preventative

SNORKEL FITTING INSTRUCTIONS

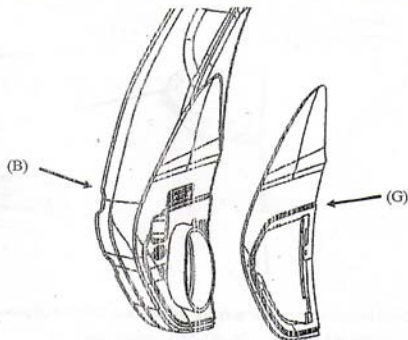
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No.:	SKEB3B-9C654-A

7



Fit snorkel body bracket (F) to inside of fender and secure with rivets (AA)

8

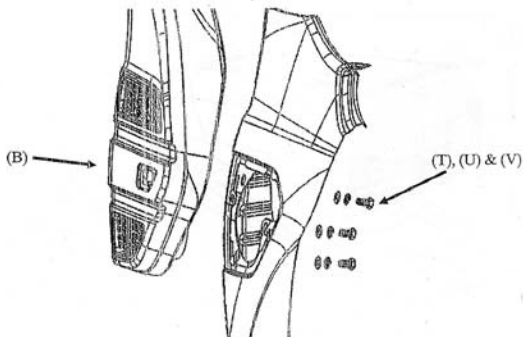


Fit snorkel body gasket (G) to rear side of snorkel body (B)

SNORKEL FITTING INSTRUCTIONS

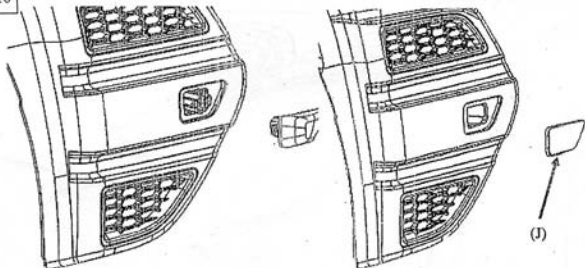
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

9



Place snorkel body (B) against fender and loosely secure using (T), (U) & (V)

10



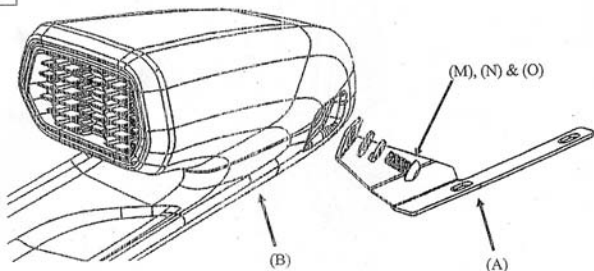
If vehicle is fitted with side indicator, pass wiring loom through clearance hole, attach wiring loom to side indicator and clip into position on snorkel body pushing front of indicator into position first

If vehicle is not fitted with side indicator attach side repeater blanking plate (J)

SNORKEL FITTING INSTRUCTIONS

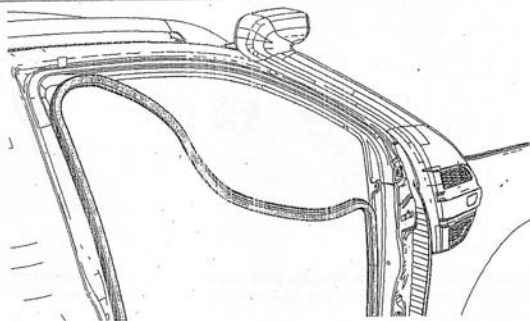
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No.	SKEB3B-9C654-A

11



Loosely Attach roof bracket (A) to snorkel body (B) using (M), (N), & (O)

12



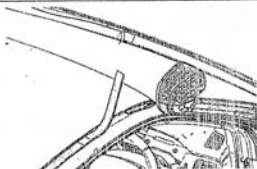
Partially remove rubber door seal to allow access to roof lining
Lower roof lining and roll up and tape side curtain bag clear of roof cavity

SNORKEL FITTING INSTRUCTIONS

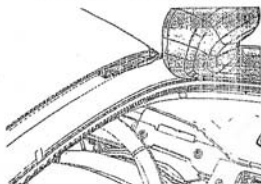
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No.	ISKEB3B-9C654-A

13

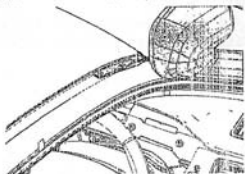
FOR VEHICLES FITTED WITH STANDARD ROOF TRIM



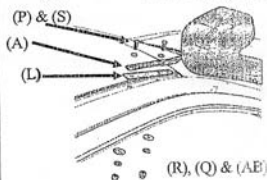
Lever up roof ditch moulding, and expose first 200mm of roof ditch



Align the snorkel bracket in the roof ditch and mark centres of two bracket holes



Remove bracket, drill two holes in roof gutter to diameter 7mm through roof skin. Debur holes, and remove all swarf from airbag and roof lining area and treat with rust preventative.



Attach gasket (L) to underside of roof bracket (A) and loosely secure bracket to vehicle using (P), (Q), (R), (S) & (AE)

Tighten dome nuts inside roof lining to secure bracket and replace roof molding

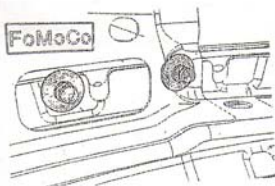
SNORKEL FITTING INSTRUCTIONS

Product: Snorkel Assembly-EB3B-9C654-A
Vehicle: Ranger Diesel July 2015+

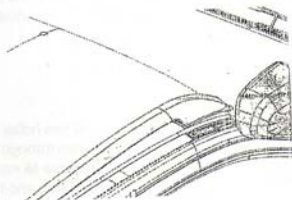
Part No: SKEB3B-9C654-A

14

FOR VEHICLES FITTED WITH ROOF BAR

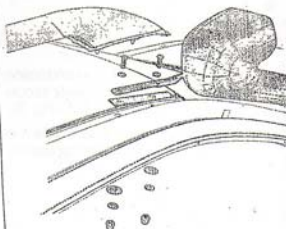


Remove and retain dome nuts and washers from roof lining cavity



Lift roof rail and place roof bracket (A) on roof rail and check alignment to existing holes.

Slot holes if necessary and debur and treat surface with rust preventative



Attach gasket (L) to underside of roof bracket (A).

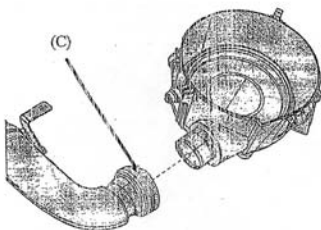
Place roof bracket in position and reinstall roof rail to roof rail.

Secure using dome nuts

SNORKEL FITTING INSTRUCTIONS

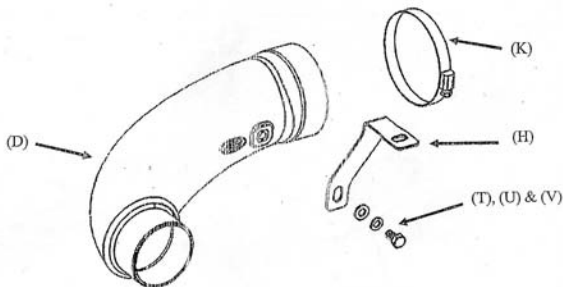
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

15



Fit DAD connector (C) to airbox and seal joint with a suitable neutral cure silicon sealant. Refit air box assembly back into engine bay and lightly tighten bolts.

16

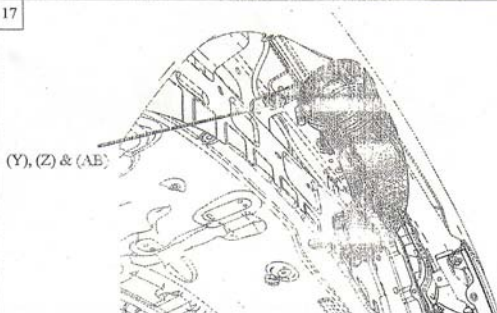


Fit front intermediate tube bracket (H) to front intermediate tube (D) using (T), (U) & (V) and lightly tighten. Attach hose clamp (K).

SNORKEL FITTING INSTRUCTIONS

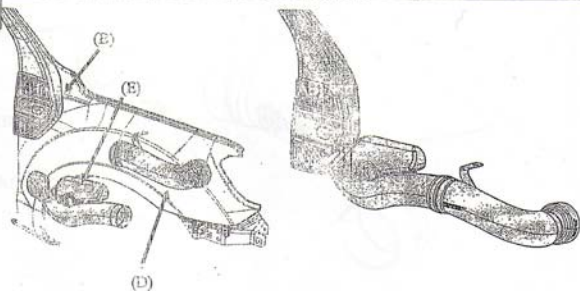
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	EB3B-9C654-A

17



Fit front intermediate tube (D) using (Y), (Z) & (AE) and lightly tighten

18

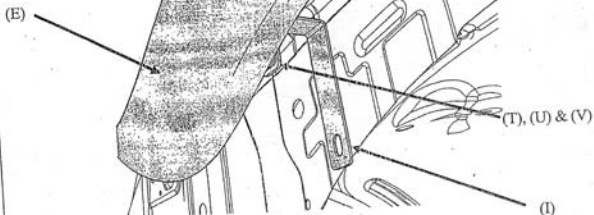


Fit rear intermediate tube (E) to snorkel body (B) and front intermediate tube (D)

SNORKEL FITTING INSTRUCTIONS

Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

21

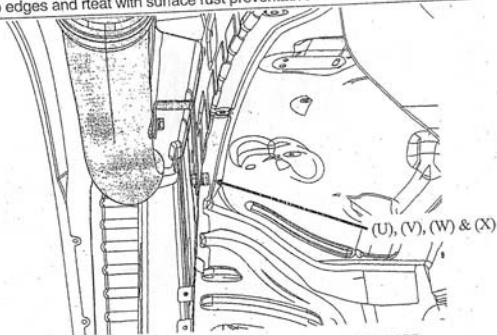


Attach rear intermediate tube bracket (I) to rear intermediate tube (E) using (T), (U) & (V) and mark center of slot on body panel

Move rear intermediate tube bracket (I) and drill a 9mm hole on center mark

Debur sharp edges and treat with surface rust preventative

22



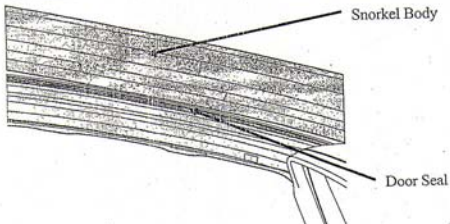
Attach rear intermediate tube bracket (I) to body using (U), (V), (W) & (X)

Check all clearances and adjust front (H) and rear (I) intermediate tube brackets if necessary.

SNORKEL FITTING INSTRUCTIONS

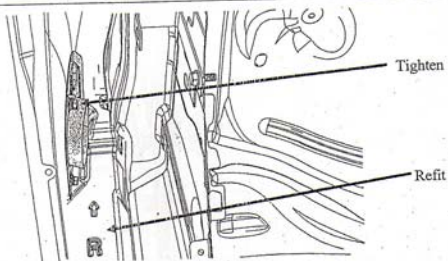
Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

21



Ensure there is clearance between Door Seal and Snorkel Body when door is open.

22



Remove front (D) and rear (E) intermediate tubes from inner guard area and tighten fasteners securing snorkel body to fender.

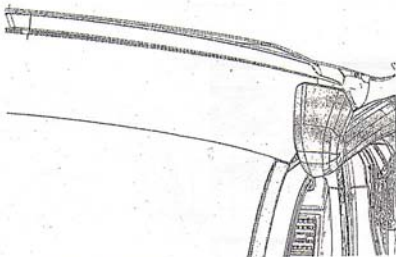
Refit foam fender stuffer back into rear of inner guard.

Tighten the fasteners to secure Snorkel Body and Roof Bracket.

SNORKEL FITTING INSTRUCTIONS

Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

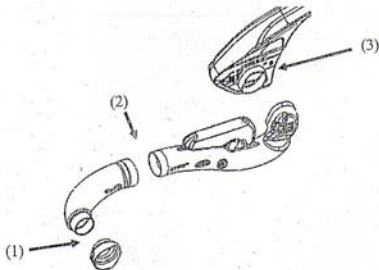
23



Tighten the fasteners to secure snorkel body to roof bracket and roof rail. Replace roof molding if fitted.

Return airbag to original state, refit roof lining cavity and door seal.

24



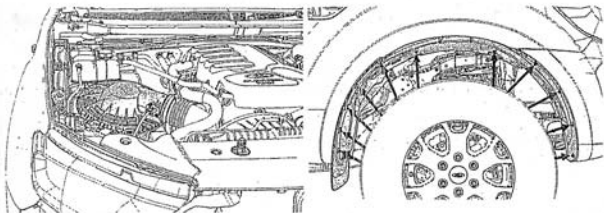
Apply a neutral cure sealant to external mating surfaces for the three connection points. Ensure sufficient coverage for water tightness.

Refit front (D) and rear (E) intermediate tubes and tighten hose clamp and all bolts to specified torque

SNORKEL FITTING INSTRUCTIONS

Product:	Snorkel Assembly-EB3B-9C654-A
Vehicle:	Ranger Diesel July 2015+
Part No:	SKEB3B-9C654-A

25



Refit airbox and all components to original state

Refit wheel arch liner and mud flap back onto vehicle with original fittings.

