

# OCAM

**4X4**  
**ACCESSORIES**

## INSTALLATION INSTRUCTIONS

### OCAM 4x4 Universal Snorkel Guide



**OCAM 4x4 Accessories**  
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## IMPORTANT INFORMATION

- Always wear safety glasses and hearing protection.
- Make sure work area is kept clean at all times.
- Check that all components, as listed, are present.
- Thoroughly read all instructions.
- This product or its fasteners must not be modified in any way.
- These instructions are accurate at the revision date and do not take into account any changes made by the vehicle manufacturer to vehicle design after the revision date, or other accessories that are or have been fitted to the vehicle.
- It is the responsibility of the installer to confirm correct operation/clearance of all components.
- All holes drilled must have all burrs and swarf removed then coated with a suitable rust preventative paint.
- Ensure that all hardware is fastened to torque specifications as detailed in the instructions.
- On completion of the job, these instructions are to be given to the customer.

## PRODUCT CARE

- To maintain the appearance of the product, wash and dry regularly using a quality car wash.
- The product fixing should be periodically checked for correct torque.

Torque Settings		
BOLT SIZE mm	TORQUE Nm	TORQUE ft. lb
M5	5	4
M6	9	7
M8	22	16
M10	44	32
M12	77	57

Tools Required	
Drill and drill bits	Pop rivetter
Hole saw or air hacksaw	Clip removal/trim removal tools
Sockets and spanners	Debur tool/file
Screwdrivers	Centre punch
Sealant	Touch up paint
Masking tape	Marker

<b>Preparation</b>	
<b>1</b>	<b>Park in safe, clean work space</b>
<b>2</b>	<b>Disconnect battery</b>
<b>3</b>	<b>Remove wheel arch inner guard for access</b>



**1. Remove airbox**  
Some vehicles may have mounting bolts that will need to be accessed from inside the airbox.



**2. Remove parts that may interfere with installation of snorkel duct.**



**3. Washer bolts, coolant reservoirs, wiring harnesses, and A/C pipes etc. may need to be relocated or temporarily removed/ mover asside for access. (Snorkel kit will include parts for relocations required).**



**4. Apply template to quarter panel using masking tape to secure in place. Mark out holes to be drilled and centre punch.**



**5. Drill holes as per template. Use debur tool or file to clean off any rough edges or tags.**



**6. Use hole saw or air hacksaw to cut snorkel duct hole as per template. Use debur tool or file to clean off any rough edges or tags.**



**7. Apply touch up paint to holes to prevent corrosion.**



**8. Insert mounting studs into threads in snorkel body where required.**



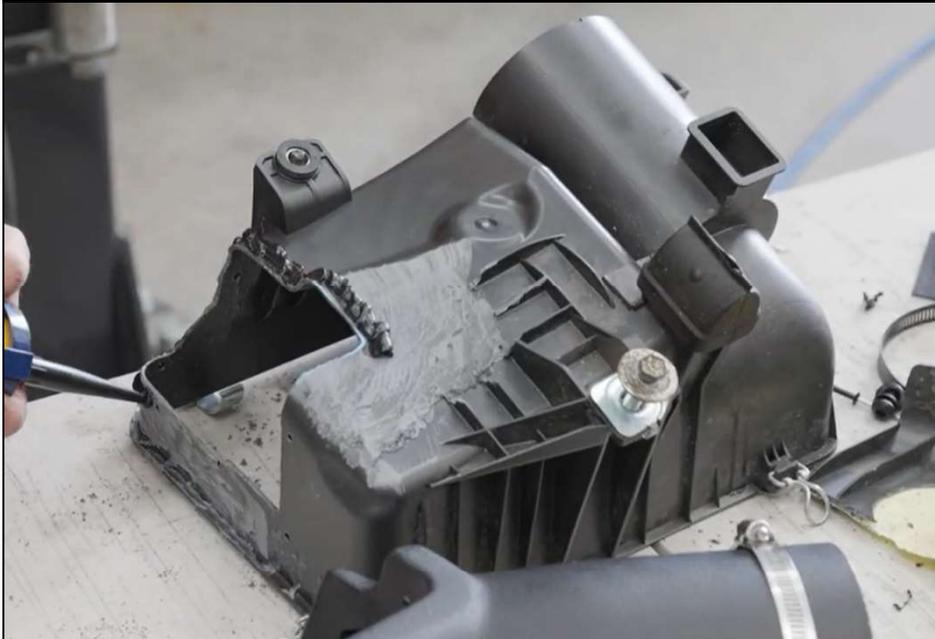
**9. Attach A-pillar mount bracket to snorkel and align snorkel on vehicle. Mark position of mounting holes on A-pillar.**



**10. Centre punch and drill holes for A-pillar mounting bracket. Clean up with debur tool and apply touch up paint. Install bracket using supplied hardware.**



**11. If modification of airbox is required, apply template to airbox and mark cut locations.**



**12. Use airbox attachment as guide for holes to be drilled. Position on airbox, mark and drill holes. Apply sealant to mating surface before installing airbox attachment.**



**13. Install airbox attachment, secure with pop rivets supplied.**



**14. Fit hose clamps to snorkel duct apply sealant to inner mounting surface and position in quarter panel.**



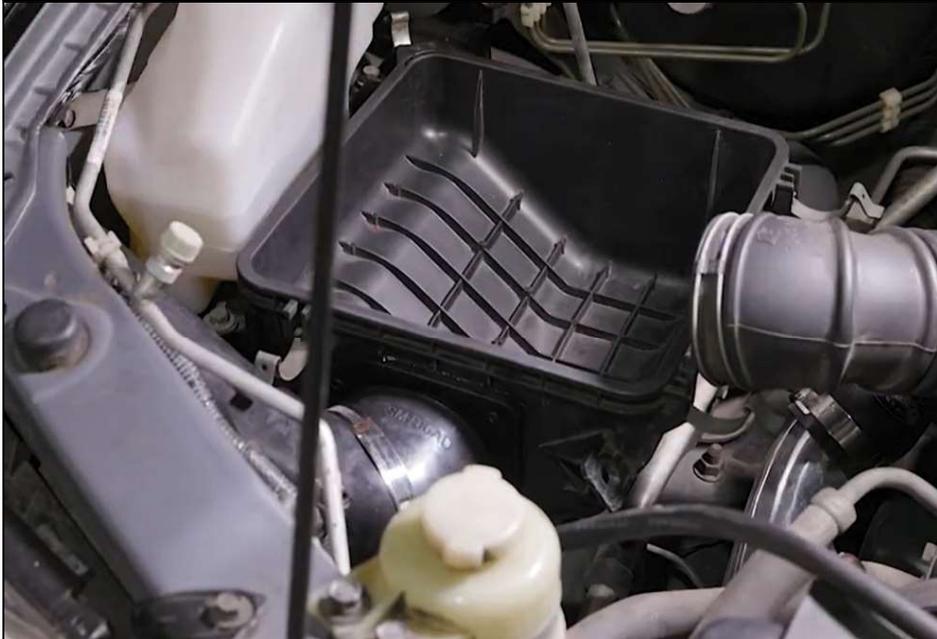
**15. Install snorkel to quarter panel and secure duct to snorkel flange.**



**16. Install relocation kit for washer bottle if required.**



**17. Apply sealant to inner mating surface for airbox duct.**



**18. Install airbox and secure duct.**



**19. Reassemble airbox.**



**20. Install snorkel head and secure with clamp.**



**21. Snorkel installation completed.**

<b>Final Steps</b>	
<b>1</b>	<b>Refit wheel arch inner guard and other trims removed.</b>
<b>2</b>	<b>Reconnect battery.</b>
<b>3</b>	<b>Ensure all tools are packed away.</b>
<b>4</b>	<b>Double check over all work, test snorkel is sealed correctly by covering snorkel head while vehicle is running. Engine RPM will fall/stutter and possibly stall. Listen for air leaks and reseal and retest as required.</b>