



SDHQ Motorsports
190 S McQueen Rd
Ste 109 Gilbert, AZ 85233
www.SDHQoffroad.com

Product Packing List

Product: SDHQ-53-1103-XK70-53

Description: SDHQ Built 2022+ Tundra Bulkhead Air and Switch Mounting Kit

_____ (1) Console Drilling Template	SDHQ-53-1103-XK70-S2-D
_____ (1) Console Cutting Template	SDHQ-53-1103-XK70-S2-E
_____ (1) Recessed Air Chuck Bulkhead	SDHQ-00-1104-BH1
_____ (1) Universal 25ft 3/8" Air Line Kit	SDHQ-00-1004-38-25
_____ (1) ARB Twin 10ft Switch Harness	SDHQ-02-1103-ARB-S2

Inspected and Packaged By: _____ Date: _____

- **Included in the Recessed Air Chuck Bulkhead
SDHQ-00-1104-BH1:**
 - (1) Recessed Billet Bulkhead SDHQ-00-1104-BH1-A
 - (1) Rubber Dust Boot SDHQ-00-1104-BH1-C
 - (1) Hardware Package SDHQ-00-1104-BH1-HP
 - (1) Industrial Air Chuck

- **Included in the Universal 25ft 3/8" Air Line Kit
SDHQ-00-1004-38-25:**
 - (1) Hardware Package SDHQ-00-1004-38-25-HP
 - (1) 3/8" Push-to-Connect Straight Fitting
 - (2) 3/8" Push-to-Connect 90° Fitting
 - (1) 25ft Piece of 3/8" Air Line
 - (2) 3/8" PTC Security Clips
 - (20) 11" Zip Ties

- **Included in the ARB Twin 10ft Switch Harness
SDHQ-02-1103-ARB-S2:**
 - (1) ARB Twin Trigger/Switch Harness SDHQ-02-1103-ARB-S2-A
 - (1) Hardware Package SDHQ-02-1103-ARB-S2-HP
 - (1) 8 Position Carlington Connector
 - (5) 630 20-18g Female Terminals
 - (1) 8" 18 Gauge Black TXL Wire
 - (1) 8" 18 Gauge Purple TXL Wire
 - (1) 15' Length of 1/4" Flexo Braided Loom
 - (2) 1" Long 1/4" Dual Wall Heat Shrink Tubing



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INSTALLATION INSTRUCTIONS

Product: SDHQ-53-1103-XK70-S3

Description: SDHQ Built 2022+ Tundra Bulkhead Air and Switch Mounting Kit



<u>Parts List</u>	<u>Hardware List</u>	<u>Required Tools</u>
(1) Console Drilling Template SDHQ-53-1103-XK70-S2-D (1) Console Cutting Template SDHQ-53-1103-XK70-S2-E (1) Recessed Air Chuck Bulkhead SDHQ-00-1104-BH1 (1) Universal 25ft 3/8" Air Line Kit SDHQ-00-1004-38-25 (1) ARB Twin 10ft Switch Harness SDHQ-02-1103-ARB-S2	See Page 2	Utility Knife 15mm and 17mm Wrench Adjustable Wrench 1/4" Drill Bit 1.5" Hole Saw Drill

Tech Notes

Use Thread Sealant on all Air Line Fittings
Can be used in combination with SDHQ-53-1103-XK70-S2
Approx. Install Time: 2 Hours (Including wiring)

*****READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! *****

For questions or help with the installation, please email help@sdhqoffroad.com
Store front hours: Mon. – Fri. 8:00am – 5:30pm and Sat. 9:00am – 2:00pm Arizona Time.

Installation Instructions:

1. Un-Box your SDHQ 22+ Tundra ARB Bulkhead Air Chuck and Switch Mount and lay out the parts. Verify all parts are present and familiarize yourself with all the parts.
2. Choose a location for your Bulkhead, try to ensure there is approximately 3" of space behind the surface chosen for mounting. Mark and center punch the chosen location.
3. Using a 1/4" drill bit, drill a pilot hole. Use a 1.5" Hole Saw to enlarge the hole to install the bulkhead.
4. Install the desired 3/8" air fitting into the 1/4" NPT threaded hole on the rear of the bulkhead.
5. Remove the retaining nut on the back of the bulkhead. Install the silicone dust cap over the threads of the bulkhead and install the bulkhead into the 1.5" hole.
6. Start the retaining nut onto the back of the bulkhead and use an adjustable wrench tighten up the retaining nut.
7. For routing the airline begin by locating the wiring grommet on the passenger side rear of the cab, remove the tape from the grommet to allow access to insert wires into the grommet.



8. Open the Passenger rear door, push in the clips for the plastic trim around the bottom of the rear seat. Pull off the front panel and set aside. Pull off the corner panel to allow access to the top of the grommet.



9. Remove the tape from the top of the grommet, this will allow for the airline to be feed through the grommet.



10. Feed the airline up from outside the truck through the grommet. Pull out airline until there is slack.
11. Install (1) 3/8" Push-to-Connect Straight Fitting into the threaded output on the ARB Twin. ***If 53-1103-XK70-S2 is installed recommend purchasing a Union Tee SDHQ-00-1040-38***
12. Route the airline under the rear seats and through the grommet in the plastic panel for the ARB wiring and airlines. Install (1) 3/8" Push-to-Connect Security Clip onto the fitting.
13. Use zip ties to secure the airline and remove additional slack.
14. If utilizing the ARB Switch in the rear console pause and refer to the **Wiring Section**. Replace the plastic panels in the interior, refer to the previous steps if needed.
15. Tape the bottom of the grommet up using electrical tape. Route the airline along the frame rail to the location of the bulkhead air chuck. Secure the airline using zip ties along the frame rail.
16. If there is excess airline trim the airline leaving some slack. Install the airline into the fitting on the bulkhead. Install (1) 3/8" Push-to-Connect Security Clip onto the fitting.
17. Test the system to ensure there are no leaks and trouble shoot if needed.
18. Installation is complete enjoy your SDHQ Bulkhead Air and Switch Mount.



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Wiring Remote Switch Harness

1. Place loom over the wires and secure in place using heat shrink.
2. Pull up on the cup holders to remove. Pull out on the rear panel of the center console to remove and use a plastic clip tool to remove the clips for the wiring harness. Disconnect the electrical connections and remove the panel from the truck. Using the console templates drill and cut out a hole for the switch in the rear panel of the center console.



3. Route the S2 switch harness under the rear seat storage tray or over the top of the battery. Using a flat head screw driver release the clips on the sides of the carpet in the rear on both sides. Pull up the carpet and route the harness to the rear of the center console. Cut the harness to length allowing for some slack and push back the loom to expose the Red, Purple and Black wires.
4. Using a pair of wire strippers remove about a ¼" of the wire insulation on the ends of the Red, Purple and Black wires and both ends of the 8" Purple and Black wires.
5. Using a pair of Open Barrel Crimpers, Crimp a terminal onto the end of the Red wire. Refer to Page 7.
6. Crimp a terminal onto the end of the Purple and one end of the 8" Purple wire.
7. Crimp a terminal onto the end of the Black and one end of the 8" Black wire.
8. Crimp a terminal onto the other end of the 8" Purple wire and onto the other end of the 8" Black wire.
9. Pin the Red terminal into location 2 of the Carling connector. Refer to Page 7.
10. Pin the Purple terminal with (2) wires into location 3 of the Carling connector.

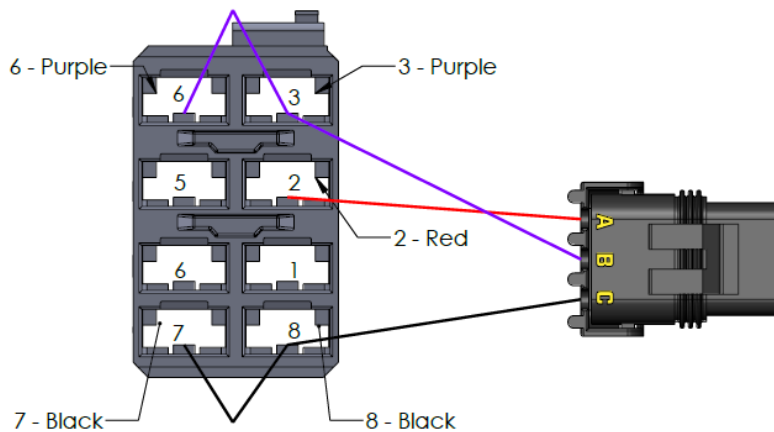


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11. Pin the Black terminal with (2) wires into location 8 of the Carling connector.
12. Pin the Purple terminal with (1) wire into location 6 of the Carling connector.
13. Pin the Black terminal with (1) wire into location 7 of the Carling connector.
14. Place the lengths of the 8" Purple and Black wires under the loom and secure using heat shrink.
15. Connect the Carling connector to the ARB Switch, Test and Troubleshoot if needed
16. Replace the rear panel of the center console. Reinstall the cup holders. Reinstall the carpet into the side clips.
17. Replace the plastics and test the system to ensure complete function. If there are no leaks install the 3/8" Push-to-Connect Security Clips to retain the air lines.
18. Enjoy your SDHQ Built Remote Air Chuck and Switch Mount for your 22+ Toyota Tundra.



1. Cut wires to desired length, loom with heat shrink, and strip 1/4" off both ends of each wire.
2. Crimp (1) MP 630 20-18g Female Terminal on other end of (1) RED wire. Combine stripped ends of (2) BLACK wires and crimp (1) MP 630 20-18g Female Terminal onto both wires. Combine stripped ends of (2) PURPLE wires and crimp (1) MP 630 20-18g Female Terminal onto both wires. Crimp (1) MP 630 20-18g Female Terminal on other remaining ends of (1) BLACK and (1) PURPLE wire.
3. Terminate (5) MP 630 20-18g Female Terminals into (1) 8 Position Carlington Connector and fold the PURPLE and BLACK looped wires into a smooth 180° bend.



- List per Harness:**
- x1 - 8 Position Carlington Connector
 - x5 - 630 20-18g Female Terminals
 - x1 - MP 150 3 pin Female Connector
 - x1 - MP 150 3 Pin Clip Lock
 - x1 - 10' 18g Red TXL Wires
 - x1 - 10' 18g Black TXL Wires
 - x1 - 8" 18g Purple TXL Wires
 - x1 - 8" 18g Black TXL Wires
 - x1 - 15' 1/4" Flexo PET Plus Expandable Loom
 - x2 - 1" 1/4" Dual Wall Heat Shrink Tubing



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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	
TOLERANCES:		CHECKED	
FRACTIONAL ± 1/32"		ENG APPR.	
ANGULAR: BEND ± 1 Degree		MFG APPR.	
TWO PLACE DECIMAL ± .05		G.A.	
THREE PLACE DECIMAL ± .031		COMMENTS:	
INTERPRET GEOMETRIC TOLERANCING PER:	Thickness		
MATERIAL			
NEXT ASSY	USED ON		
APPLICATION	DO NOT SCALE DRAWING		

TITLE:
**02-1103-ARB-S2
ARB Twin Switch
Harness**

SIZE	DWG. NO.	REV
A		
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

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Double check all hardware is installed correctly and tight

Re-torque ALL bolts after 100 miles



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