



Kirby Morgan Dive Systems, Inc.®

1430 Jason Way Santa Maria, California 93455

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Part# 525-755

Tri-Valve Exhaust Kit For the SL 27®

Tools Needed:

Medium flat blade screwdriver

Inch Pound torque screwdriver w/ medium flat blade

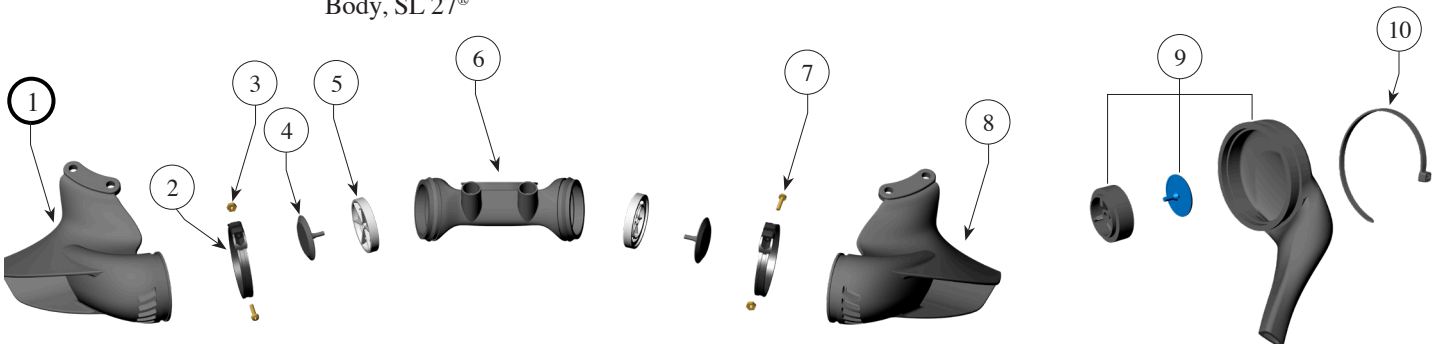
1 7/8" socket /torque wrench

1 1/16"-1 3/16"- 7/8"- open end torque wrench adapters

7/8" open end wrench

#1 Phillips head screwdriver

Loc. #	Part Number	Description	Qty	Loc. #	Part Number	Description	Qty
1	510-786	Starboard Whisker Wing	1	7	530-008	Brass Screw	2
2	520-118	Clamp	2	8	510-787	Port Whisker Wing	1
3	530-009	Brass Nut	2	9	505-726	Water Purge Deflector	1
4	510-776	Exhaust Valve	2	10	520-042	Tie-Wrap	6
5	520-200	Valve Seat	2	not shown	510-552	Exhaust Valve	1
6	510-759	Tri-Valve Exhaust, Main Body, SL 27®	1	not shown	550-122	Spring Spacer	1



NOTE: This Tri-Valve Exhaust System is not physically CE marked. This is done to avoid giving the impression that Pre-CE marked helmets/masks will be considered CE approved when fitted with this exhaust system. Use of this product on helmets/masks bearing a valid CE mark will NOT invalidate that certification mark. EC approval was conducted by SGS United Kingdom Ltd, Unit 202B Worle Parkway, Weston Super Mare BS22 6WA United Kingdom Notified Body 0120.

NOTE: Where country or company policy dictates, the Tri-Valve kit should be installed by a qualified, certified Kirby Morgan technician only. Where policy does not dictate, individuals desiring to perform the installation should call or E-mail KMDSI if in doubt about proper installation exists.

NOTE: It is necessary to completely remove the demand regulator as well as bent tube or "A" style hose connection to the side block to allow proper installation of this assembly

Instructions:

- 1) Remove bent tube or regulator to side block hose, completely.
- 2) Remove the 4 screws, 2 kidney plates and 4 spacers that retain the whisker to the port retainer. Safeguard all of these parts.
- 3) Remove the demand regulator from the helmet. Save O-Ring if damaged, replace.
- 4) Remove the old whisker from the demand regulator.
- 5) Inspect the demand regulator exhaust valve P/N 510-552 for damage. Clean the seat and replace the valve, as needed, with the valve included with this kit.
- 6) Install the Tri valve whisker assembly making sure all parts are properly aligned. (Fig. 1)

NOTE: Do not pull on either of the whiskers to stretch fit the assembly onto the regulator. Doing so may loosen or dislodge the whiskers from their proper position. Carefully pull onto the reg and position as shown. (Fig. 1)



Figure 1

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7) Install new tie wrap P/N 520-042 as shown and trim excess strap. Make sure no sharp edges remain. (Fig. 2)

8) Remove the old style latex water purge deflector and inspect both the outer and valve surface of the valve body as well as the valve itself. The new cover will require a seal to the outer surface of this exhaust body. Replace the body if damage is found. Replace the exhaust valve if needed.



Do not put water dump finger inside Tri-Valve.

Figure 3

9) Install the new water purge deflector P/N 505-726. Position it as shown (Fig.3) and use a tie wrap to seal it to the exhaust body. Make certain it is positioned as shown. (Fig.4). **Do not put water dump finger inside Tri-Valve.**



Figure 2

10) Re-install the demand regulator. Install the regulator seal O-ring and hand start the regulator mount nut.

11) Reinstall bent tube assembly. Hand tighten all the fittings. Once the threads have been started, tighten the regulator mount nut to 100 in/lb

12) Finish tightening both fittings on the bent tube. The side block end should be torqued to 100 in/lb. The jam nut and regulator end, to 40 in/lb.

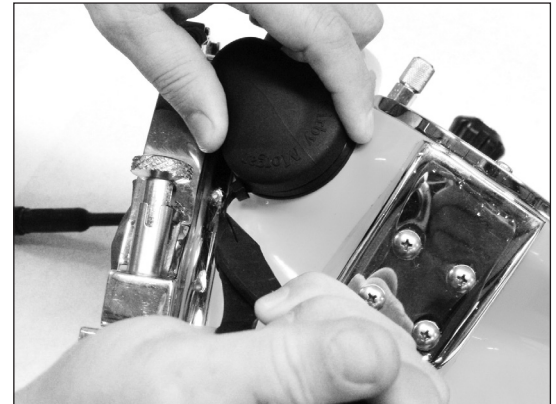


Figure 4



Figure 5

13) Reinstall the 4 spacers kidney plates and screws and torque to 12 in/lb.

14) Attach any other components that may have been displaced to aid in this installation.

15) See (Fig. 5) and (Fig. 5a) for proper installation of the Spring Spacer P/N 550-122



Figure 5a