

DX4

(BALANCED DIAPHRAGM)

SERVICE PROCEDURE

This DX4 Product Service Procedure conveys a list of components and service procedures that reflect the DX4 as it was configured at the time of this writing (5/23/02).

It also contains Supplemental Information intended to assist the Authorized Oceanic Regulator Service Technician who is servicing a DX4 configured with older components.



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GENERAL PROCEDURES

SPECIFICATIONS

<u>Torques</u>			<u>Intermediate P</u>	<u>ressure</u>
P/N 6564	Yoke Retainer	23 to 25 ft-lbs	Preferred	138 to 142 psi
P/N 4544-300	DIN Filter Retainer	120 to 140 in-lbs ft-lbs	Acceptable	137 to 143 psi
*If the DIN Filte	er Housing has a hex machined	d into the Inner Bore, increase		
DIN Filter Ret	ainer torque to 16 to 18 ft-lbs.			
P/N 6565	DIN Filter Housing	16 to 18 ft-lbs		
P/N 3462	HP Port Plug	35 to 40 in-lbs		
P/N 3463	LP Port Plug	35 to 40 in-lbs		
P/N 6608	Receiver	80 to 100 in-lbs		
P/N 6609	End Cap	20 to 22 ft-lbs		
P/N 6613	Environ. End Cap	20 to 22 ft-lbs		
HP Hose into Fir	st Stage Body	35 to 40 in-lbs		
LP Hose into Fire	st Stage Body	35 to 40 in-lbs		
Inflator Hose into	First Stage Body	35 to 40 in-lbs		

TOOLS REQUIRED

Standard Tools
Inch Pounds Torque Wrench
Foot Pounds Torque Wrench
5/32" Hex Key Socket
1/4" Hex Key Socket
1/2" Open End Wrench
9/16" Open End Wrench
5/8" Open End Wrench
13/16" Open End Wrench
1" Open End Wrench
5/32" Allen Key
5/16" Allen Key

Specialty ToolsP/N 40.2302Christo-Lube MCG111 - 2 ozP/N 40.65363/8" Socket Drive DX SpannerP/N 40.9311HP Cone ToolFilter Circlip Pliers

P/N 40.9311 Filter Circlip Filers
P/N 40.9315 Intermediate Press. Gauge

P/N 40.9520 O-ring Tool Kit

Doc. 12-2203-r02 (5/23/02)

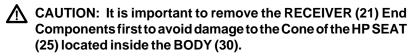
1/8" Allen Key 1/4" Allen Key Soft Jawed Vise

TROUBLE SHOOTING				
SYMPTOM	POSSIBLE CAUSE	TREATMENT		
* Restricted airflow and inhala- tion resistance through complete system.	 Cylinder valve not completely opened. Cylinder valve requires service. CONE FILTER (4,12) is contaminated. 	Open valve completely. Connect Regulator to a different cylinder. Replace with new and perform a complete service.		
* Air leakage detected from beneath the ADJUSTMENT CUP (38) inside the END CAP (35, 39).	1. END CAP (35,39) is loose. 2. DIAPHRAGM (32) is worn or damaged. 3. DIAPHRAGM WASHER (33) is damaged or incorrectly seated. 4. Seating surface inside BODY (30) is damaged.	1. Tighten END CAP onto BODY, using prescribed torque value in Reassembly Procedure. 2. Replace with new. 3. Reseat or replace with new. 4. Replace BODY with new.		
* Air leakage detected from RECEIVER (21).	1. RECEIVER O-RING (22) is damaged or worn. 2. Seating surface inside the BODY (30) is damaged. 3. Seating surface on the RECEIVER (21) is damaged.	1. Replace with new. 2. Replace with new. 3. Replace with new.		
* Insufficient intermediate pressure.	1. END CAP (35,39) loose. 2. First Stage improperly adjusted. 3. DIAPHRAGM SPRING (36) is weakened or damaged. 4. Seating surface of BODY (30) beneath DIAPHRAGM (32) is damaged.	1. Tighten END CAP onto BODY, using prescribed torque value in Reassembly Procedure. 2. Readjust according to procedure specified in Reassembly Procedure. 3. Replace with new. 4. Replace BODY with new.		
* Excessive intermediate pressure/intermediate pressure creeps.	 First Stage improperly adjusted. HP SEAT (25) damaged or worn. HP SEAT O-RING (23) damaged or worn. Seating surface of HP SEAT (25), or RECEIVER (21), or HP CONE (28), or BODY (30) is damaged. RETAINING SPRING (24) is weakened or damaged. 	1. Readjust according to Reassembly Procedure. 2. Replace with new. 3. Replace with new. 4. Replace with new. 5. Replace with new.		

DISASSEMBLY PROCEDURE

NOTE: Be sure to check and record the intermediate pressure and perform the Leak Detection Test outlined in the Initial Inspection Procedures prior to disassembling the Regulator. Review the Troubleshooting Section to gain a better idea of which internal parts may be worn, and to better advise your customer of the service that is needed.

- Before disassembling the First Stage, remove the low pressure second stage Hoses with a 9/16" open end wrench, the high pressure Hose(s) with a 5/8" open end wrench, and the low pressure inflator Hose with either a 9/16" or 1/2" open end wrench.
- 2. Remove and inspect the O-RINGS now visible on all these items for any signs of decay. Discard if found.



- 3. Using 1/4" hex key, turn the RECEIVER (21) in a counter clockwise direction to remove it from the BODY (30). (Fig. 1)
- Remove the HP SEAT (25) and TRANSFER PIN (26) from the RECEIVER (21). Discard the HP SEAT, regardless of condition, and DO NOT attempt to reuse it. Inspect the TRANSFER PIN for signs of wear or distortion. Discard if found.
- Remove the RETAINING SPRING (24). Using the magnifier, closely examine the SPRING for any signs of corrosion. Discard if found and DO NOT attempt to reuse.
- 6. Using care not to scratch or damage the RECEIVER (21), remove the HP SEAT O-RING (23) from inside the RECEIVER (Fig. 2). Discard, regardless of condition, and DO NOT attempt to reuse.
- 7. Remove and inspect the RECEIVER O-RING (22) for any signs of decay. Discard if found.
- Gently insert the longer, tapered end of a Cone Removal/Installation Tool directly into the HP CONE (28), which is held inside the BODY (30). Pull the Tool straight out to remove the HP CONE (28) from the BODY (Fig. 3).
- Remove the HP CONE O-RING (27), being very careful to avoid damaging the HP CONE (28). Discard the HP CONE O-RING, and DO NOT attempt to reuse. Inspect the HP CONE for any signs of damage or corrosion. Discard if found.



Fig. 1



Fig. 2



Fig. 3



NOTE: Perform step 10 only if an Environmental Kit has been installed.

- 10. Environmental Kit Disassembly:
 - A. Turn the plastic ENVIRONMENTAL CAP (42) counter clockwise by hand to loosen and remove.
 - B. Gently peel the lip of the ENVIRONMENTAL DIAPHRAGM (41) away from the Brim of the END CAP (39) and lift out to remove. Examine the condition of the ENVIRONMENTAL DIAPHRAGM, checking for any signs of wear, distortion, corrosion, or perforation. Discard if found.
 - C. Turn the First Stage DIAPHRAGM side down and remove the TRANSFER PISTON (40). Check for any signs of wear, distortion, or corrosion. Discard if found.
- 11. Place the First Stage on the repair bench, situated with the YOKE SCREW, or DIN Connector, facing farthest away, vertically. Holding the YOKE, or DIN Connector, firmly in place, apply a 5/16" hex key to the ADJUSTMENT CUP (38), and turn counter clockwise to remove (Fig. 4).
- Remove the SPRING WASHER (37) and DIAPHRAGM SPRING (36). Inspect the WASHER for any signs of wear or distortion. Discard if found.
- 13. Using a magnifier, closely inspect the DIAPHRAGM SPRING (36) for any signs of corrosion. Discard if found and DO NOT attempt to reuse.
- 14. Secure the First Stage in a soft-jawed or well padded vise and apply a 3/8" socket drive wrench with a 3/8" Socket Drive Spanner to the END CAP (35, 39). (Fig. 5) Turn the END CAP counter clockwise to remove it from the BODY (30). Lift out the DIA-PHRAGM WASHER (33) and DIAPHRAGM PLATE (34), and inspect for signs of wear or distortion. Discard if found.
- CAUTION: Tighten the vise only as needed to hold the First Stage secure, and DO NOT overtighten. Doing so will result in permanent damage, rendering it inoperable.
- 15. Using a 5/32" hex key, install HP PORT PLUGS (17) into the open HP Ports, and LP PORT PLUGS (19) into all but one of the LP Ports. Check to ensure that 1 of the 4 LP Ports is open, and all other Ports are sealed. Tighten the YOKE SCREW (1) to ensure that the PROTECTOR CAP (16) is securely sealed over the YOKE RETAINER (6).
- 16. Remove the DIAPHRAGM (32) from the BODY (30) by covering the RECEIVER opening in the BODY with the palm of your hand and directing short blasts of low pressure air through the open LP Port (Fig. 6). Lift the DIAPHRAGM out carefully and discard, regardless of its condition, and DO NOT attempt to reuse.



Fig. 4



Fig. 5



ig. 6

- CAUTION: DO NOT attempt to remove the DIAPHRAGM (32) with the use of a metallic instrument. Doing so will seriously damage the brass seating surface of the BODY (30).
- 17. Remove the BUTTON (31) and inspect for signs of wear or distortion. Discard if found.
- 18. Remove all PORT PLUGS (17, 19) with a 5/32" hex key. Remove and inspect the PORT PLUG O-RINGS (18, 20) for any signs of decay. Discard if found.
- 19. Secure the First Stage BODY (30) in a soft jawed or well padded vise with the YOKE Assembly, or the DIN Connector, facing up.

CAUTION: Tighten the vise only as needed to hold the First Stage secure, and DO NOT overtighten. Doing so will result in permanent damage, rendering it inoperable.



NOTE: For units received with YOKE Connectors perform step 20Y, for units received with DIN Connectors perform step 20D.

- 20Y. Yoke Connector Disassembly:
 - A. Remove the YOKE SCREW (1) from the YOKE (2).
 - B. Apply a thin wall, or modified, 1" open end wrench to the YOKE RETAINER (6). Using firm steady force, turn it counter clockwise to remove it. DO NOT use impact to loosen.



NOTE: It is important that the wrench is properly seated over the entire hex portion of the YOKE RETAINER (6) to prevent any damage to the part (Fig. 7).

- C. Remove the YOKE RETAINER (6), the YOKE (2), and the PROTECTOR CAP (16) and set them aside. Remove and discard the RETAINER O-RING (7). DO NOT attempt to reuse.
- D. Using Internal Circlip Pliers, remove the RETAINING CLIP (3) that retains the CONE FILTER (4). The CONE FILTER should drop out freely into your hand. Discard, and DO NOT attempt to reuse. Remove and discard the FILTER O-RING (5). DO NOT attempt to reuse.
- 20D. DIN Connector Disassembly:
 - A. Apply a 1/4" hex key to the DIN FILTER RETAINER (9) and loosen in a counter clockwise direction to remove (Fig. 8). Remove the DIN FACE O-RING (8) and FILTER RETAINER O-RING (10) and inspect for any signs of decay. Discard if found.
 - * Refer to Supplemental information on page 12.
 - B. Lift the DIN COUPLER WHEEL (11) straight off the DIN FILTER HOUSING (14), remove the PROTECTOR CAP (16), and set them aside. Apply a 13/16" open end wrench to the flange at the base of the DIN FILTER HOUSING (Fig. 9).



Fig. 7



Fig. 8



Fig. 9

C. Using firm, steady force, loosen in a counter clockwise direction to remove. DO NOT use impact to loosen.



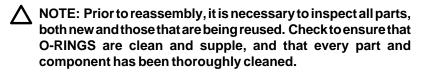
NOTE: It is important that the wrench is deep enough to seat entirely over the Flange to avoid any damage to the seating surface.

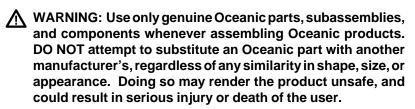
- D. After removing the DIN FILTER HOUSING (14) from the BODY (30), turn it over and tap lightly to drop out the DIN CONE FILTER (12). Discard the DIN CONE FILTER and DO NOT attempt to reuse. Remove and inspect the FILTER O-RING (13) for any signs of decay. Discard if found. Remove and discard the DIN FILTER HOUSING O-RING (15). DO NOT attempt to reuse.
- 20. Using your thumbs, push and peel the upper tab of the BODY BOOT (29) from the grove in the BODY (30), and remove the BODY BOOT (Fig. 10). Check for any signs of damage or distortion. Discard if found.



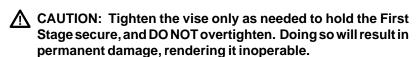
Fig. 10

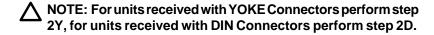
REASSEMBLY PROCEDURE

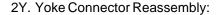












- A. Install the FILTER O-RING (5) into the YOKE RETAINER (6), at the Base of the Filter Cavity in the BODY (30). (Fig. 11)
- B. Install the CONE FILTER (4) into the YOKE RETAINER (6) and install the RETAINING CLIP (3) into the Groove above it, using Internal Circlip Pliers (Fig. 12).



Fig. 11



Fia. 12



NOTE: Close examination of the RETAINING CLIP (3) will show that one side is slightly rounded and the other is flat. Install with the flat side facing out of the YOKE RETAINER (6) to ensure greater holding strength.

- C. Lubricate and install the YOKE RETAINER O-RING (7) into the Groove on the end.
- D. Insert the threaded end of the YOKE RETAINER (6) through the YOKE (2), facing opposite the end that holds the YOKE SCREW (1). (Fig. 13)
- E. Place the Loop End of the PROTECTOR CAP (16) over the raised Lip on the Saddle Face of the BODY BOOT (29), and hold it in place. Holding the YOKE RETAINER (6), and YOKE (2) together between your thumb and forefinger, mate the YOKE RETAINER into the BODY (30), so that the threads seat properly. Hand tighten in a clockwise direction until secure. Using a thin-wall, or modified, 1" open end wrench that is properly seated over the entire hex portion of the YOKE RETAINER, tighten to a torque of 16-18 ft-lbs.
- F. Install the YOKE SCREW (1) into the YOKE (2).



- A. Lubricate and install the DIN FILTER HOUSING O-RING (15) into the Groove on the end of the DIN FILTER HOUSING (14).
- B. Install the DIN FILTER HOUSING (14) into the BODY (30) so that the threads seat properly, and hand tighten in a clockwise direction until secure.
- C. Using a thin-wall, or modified, 13/16" open end wrench that is properly seated over the entire seating surface of the FILTER HOUSING (15) Flange, tighten to a torque of 16-18 ft-lbs.
- D. Lubricate and install the FILTER O-RING (13) into the DIN FILTER HOUSING (14), at the Base of the Filter Cavity. Install the DIN CONE FILTER (12) into the DIN FILTER HOUSING.
- E. Place the Loop End of the PROTECTOR CAP (16) over the raised Lip on the Saddle Face of the BODY BOOT (29), and hold in place.
- F. Install the DIN COUPLER WHEEL (11) down over the Stem of the DIN FILTER HOUSING (13), with the threaded end facing up.
- G. Lubricate and install the DIN FACE O-RING (8) and FILTER RETAINER O-RING (10) onto the DIN FILTER RETAINER (9).
- H. Insert the threaded end of the DIN FILTER RETAINER (9) through the DIN COUPLER WHEEL (11), into the DIN FILTER HOUSING (14), and tighten until secure. Apply a 1/4" hex socket and tighten to a torque of 16-18 ft-lbs.



Fig. 13

- 3. Place the stem of the BUTTON (31) directly into the Center Hole in the BODY (30), ensuring that it enters without any restriction (Fig. 14).
- 4. Position the DIAPHRAGM (32) flat, directly over the Opening of the BODY (30). Gently push the edges of the DIAPHRAGM down inside the internal threads of the BODY, one thread at a time. Rotate the BODY while doing this, to facilitate an even seating of the DIAPHRAGM, and closely inspect to ensure it is well seated at the base of the threads (Fig. 15).
- CAUTION: DO NOT force the DIAPHRAGM into the BODY in a manner that will damage either the lip or surface of the DIAPHRAGM, or the threads of the BODY. The use of a sharp instrument, such as a screwdriver, is to be strictly avoided.
- 5. Place the DIAPHRAGM WASHER (33) into the BODY (30) on top of the DIAPHRAGM (32) with the Collar facing up.
- 6. Lay the DIAPHRAGM PLATE (34) into the Center of the DIA-PHRAGM WASHER (33), with its flat surface against the DIA-PHRAGM (32).
- 7. Thread the END CAP (35, 39), into the BODY (30), turning clockwise by hand until secure.
- 8. Secure the First Stage BODY in a soft jawed or well padded vise, and using a 3/8" Socket Drive Spanner on a foot-pounds torque wrench, tighten the END CAP (35, 39) into the BODY (30) to a torque of 20-22 ft-lbs (Fig. 16).
- Apply a very light film of lubricant (Christo Lube MCG111) to both ends of the DIAPHRAGM SPRING (36), and place it on the DIAPHRAGM PLATE (34).
- 10. Place the SPRING WASHER (37) directly onto the upper end of the DIAPHRAGM SPRING (36) and install the ADJUSTMENT CUP (38) into the END CAP (35, 39). Using a 5/16" hex key, turn the ADJUSTMENT CUP clockwise until only two threads are showing.
- 11. Lubricate and install the HP CONE O-RING (27) onto the HP CONE (28), and place the Sealing Edge of the HP CONE down onto the smaller end of a clean two-part Cone Removal/Installation Tool. Use care not to damage the seating surface of the HP CONE as this is done. Lower the large opening of the installation tool sleeve over the HP CONE until the Edge of the Narrow Opening is even with the Base of the HP CONE (28).



Fig. 14

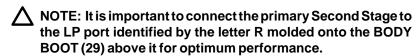


Fig. 15



ig. 16

- 12. Guide the HP CONE/Tool Assembly into the High Pressure Chamber of the BODY (30), taking care to align the HP CONE (28) with the Recess in the High Pressure Chamber properly (Fig. 17). Carefully press the HP CONE completely into place and withdraw the Tool, pulling it straight out.
- 13. Lightly lubricate and install the RECEIVER O-RING (22) onto the RECEIVER (21) and the HP SEAT O-RING (23) into the Inner Bore of the RECEIVER. Lightly lubricate the threads of the RECEIVER.
- 14. Apply a very light film of lubricant to both ends of the RETAINING SPRING (24) and the lower 1/4" of the HP SEAT (25) Shaft. Install the RETAINING SPRING onto the end of the RECEIVER (21).
- Carefully guide the Shaft of the HP SEAT (25) so that it passes through the RETAINING SPRING (24) and into the HP SEAT O-RING (23) in the inner bore of the RECEIVER (21). (Fig. 18)
- 16. Carefully insert the TRANSFER PIN (26) into the Opening of the HP SEAT (25).
- 17. While looking into the BODY (30) so that you may see the HP CONE (28), insert the SEAT/RECEIVER Assembly directly into the Center of the RECEIVER Opening in the BODY (30) and carefully guide the TRANSFER PIN (26) through the Center of the HP CONE and into the BUTTON (31) (Fig. 19). During this step, USE CAUTION to avoid touching the HP CONE as the TRANSFER PIN passes through the Center of it.
- 18. While holding the BODY (30) secure, turn the RECEIVER (21) clockwise to engage the threads and using a 1/4" hex key, tighten the RECEIVER into the BODY to a torque of 80-100 in-lbs.
- 19. Lubricate and install PORT PLUG O-RINGS (18, 20) onto the PORT PLUGS (17, 19). While holding the BODY (30) secure, install the PORT PLUGS into the BODY (30), tightening clockwise with a 5/32" hex key socket to a torque of 35-40 in-lbs.
- 20. Lubricate and install all Hose O-rings onto Hoses and install the Hoses into the BODY (30). While holding the BODY secure, tighten the low pressure Second Stage Hose(s) clockwise with a 9/16" open end wrench, the high pressure hose(s) with a 5/8" open end wrench, and the low pressure Inflator Hose(s) with either a 9/16" or 1/2" open end wrench, to a torque of 35-40 in-lbs.



⚠ CAUTION: Be certain not to install any low pressure Hose into a igh pressure PORT via an adaptor.



Fig. 17



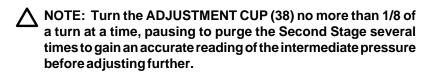
Fig. 18

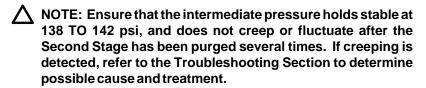


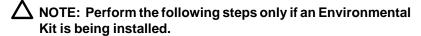
Fig. 19

FINAL ADJUSTMENT

- Connect a recently calibrated Low Pressure Test Gauge to a low pressure Hose, and connect the First Stage with Second Stage and Low Pressure Test Gauge to a pure breathing gas source of 3000 psi. Slowly open the supply valve to pressurize the Regulator, and purge the Second Stage several times.
- 2. Adjust the intermediate pressure, if necessary, to read 138 to 142 psi by turning the ADJUSTMENT CUP (38) clockwise to increase the pressure or counter clockwise to decrease it (Fig. 20).







ENVIRONMENTAL KIT REASSEMBLY

- 1. Insert the TRANSFER PISTON (40) into the ENVIRONMENTAL END CAP (39). (Fig. 21)
- Turn the air supply off and bleed off intermediate pressure. Insert the ENVIRONMENTAL DIAPHRAGM (41) over the Top of the ENVIRONMENTAL END CAP (39) with the thin Perimeter Seal facing down. Ensure that the thin Perimeter Seal is seated completely into the circular Groove in the ENVIRONMENTAL END CAP (39). (Fig. 22)
- 3. Thread the plastic ENVIRONMENTAL CAP (42) onto the ENVIRONMENTAL END CAP (39), being very careful to avoid cross threading, and tighten clockwise by hand until secure. DO NOT use tools to tighten.
- 4. Turn on the air supply and purge the Second Stage several times, and check once more to ensure proper intermediate pressure of 138 to 142 psi.



Fig. 20



Fig. 21



Fig. 22

REGULATORS

DX4 BALANCED DIAPHRAGM FIRST STAGE

ъ.				D:-	
Dia. No.	Part #	Description		Dia. No. Part #	Description
	VERSIO	•		40.4045.99	KIT, ENVIRONMENTAL
1c		SCREW, YOKE (BK)		39c 6613	CAP, ENVIRONMENTAL END
2c	6562	YOKE		40c 6516	PISTON, TRANSFER
3c	3530	CLIP, RETAINING		41c 6511	DIAPHRAGM, ENVIRONMENTAL
4a 5a	3545 2.013	FILTER, CONE O-RING, FILTER		42c 6302.	3 CAP, ENVIRONMENTAL
6c	6564	RETAINER, YOKE		SERVICE PA	RTS KITS
7a	2.011	O-RING, RETAINER		40.6113	KIT, YOKE CONNECTION SERVICE PARTS
				40.0440	(Includes all Bold items.)
DIN V 8a•	ERSION 6374	O-RING, DIN FACE		40.6118	KIT, DIN CONNECTION SERVICE PARTS (Includes all • items)
9c		0 RETAINER, DIN FILTER			(includes all viteris)
10a•	2.012	O-RING, FILTER RETAINER			
11c	6559	WHEEL, DIN COUPLER			16 6
12a•	4546	FILTER, DIN CONE			/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
13a∙ 14c	2.011 6565	O-RING, FILTER HOUSING, DIN FILTER		-	4 3 2
15a•	2.011	O-RING, FILTER HOUSING		1 1	5 4 3
			188		7
		VERSIONS	29 \		-21
16c 17c	6560 3462	CAP, PROTECTOR (BK) PLUG, HP PORT	20 \	< 3) (a) (< ≥)	8
17C	3.904	O-RING, HP PORT PLUG		-31 W	9
19c	3463	PLUG, LP PORT	D08.4	- 4	
20c	3.903	O-RING, LP PORT PLUG		20	• −23
21c	6608	RECEIVER	0) _ ~	===	-24
22c 23a•	2.015 6498	O-RING, RECEIVER O-RING, HP SEAT		-	10
24c	6512	SPRING, RETAINING	19 T	20	1-25
25a•	6490	SEAT, HP	20	- 4	
26c	6517	PIN, TRANSFER	_ <i>_</i> &\\ (3 30 8.	
27a• 28c	2.010 6489	O-RING, HP CONE CONE, HP	- OTE		26 14
29c	6610.07	The state of the s	21 22		- 26
30c	6607	BODY	31 – 🕻	<u></u> 30 ∣	⊸ − 27
31c	6514	BUTTON	0.		<u> </u>
32a•	4913	DIAPHRAGM	32-		■ - 28
33b 34c	4917 6450	WASHER, DIAPHRAGM PLATE, DIAPHRAGM			
35c	6609	CAP, END	33 – 军	===	
36c	6513	SPRING, DIAPHRAGM	~	_	
37b	6524	WASHER, DIAPHRAGM	34-	₽	
38c	6611	CUP, ADJUSTMENT			
			_		
			35 –	2	-39
			700		9 "
			6	±	ACCUSA.
			36 – 📜	31	200
			4	E962	-36
			37- 🖪		- 37
				-	6
			38 - [-	-38
			-		1
					
					حالج ™
					- Company
					€ - 41
					<u>- 42</u>
					Corporation

SUPPLEMENTAL INFORMATION

Due to design enhancements that have been made since the DX4 was originally released, the unit being serviced may not have the same components previously described.

The intent of this Supplemental Information is to assist the Oceanic Regulator Service Technician with identification of previous component parts and provide guidelines for their reuse or replacement.

The exploded view diagram on page 12 can be used as a reference for older units.

DIN FITTING

In the event that the complete DIN Fitting comes off the First Stage when the DIN FILTER RETAINER is being removed during Disassembly (step 20D, page 6), it will be necessary to disassemble the Fitting to replace the FILTER.

If the DIN FILTER HOUSING has a hex machined into the end opening of the Inner Barrel, hold the HOUSING with a 7/32" hex key and remove the DIN FILTER RETAINER using a 1/4" hex key.

If the DIN FILTER HOUSING does not have a hex machined into the end opening of the Inner Barrel, insert a flat blade screwdriver into the opening to hold the HOUSING and remove the DIN FILTER RETAINER using a 1/4" hex key. If the HOUSING becomes damaged, it must be replaced.