

# **RTDI - TECHNICAL SERVICE BULLETIN**

<b>TSB TITLE:</b> Driver Seat - Seat Belt & Anchorages	<b>DATE:</b> 5/15/18
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<b>RTDI BULLETIN NO.</b> TSB-01-18 <b>NHTSA RECALL NO:</b> 17V-182	<b>MODEL:</b> All Stretch Ducks & Truck Ducks
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**REASON:** Replace current driver's seat and seat belt assembly and anchorages with arrangements that have been certified to the requirements of FMVSS 208,209 and 210.

**ACTION:** RTDI will check installations on both Stretch Duck & Truck Ducks designs and in addition will supply all applicable componentry in order to complete this TSB.

PART NUMBER	DESCRIPTION	QUANTITY per unit	TOTAL SERVICING LABOR HRS
007469	Seat	1	
007470	Drivers Seat adaptor plate	2	
007471	Compressor assembly kit	1	
007472	Compressor/Air tank main bracket	1	
007473	Pressure relief valve - 140 lbs	1	
		Total hours	15 HRS

**IMPORT ADVICE:**

1. Please read the operating instructions thoroughly before using your ISRI - seat and acquaint yourself with its technical features.
2. Keep the operating instructions within the vehicle.
3. The ISRI - seat has to be installed or repaired by specialists under consideration of the specific country's regulations.
4. We point out that this seat is a safety component. Any modifications to the seat and disregard of the instruction manual leads to the loss of guarantee.
5. Add draining air tank water accumulation to your annual maintenance program.

**ATTENTION:**

Due to reasons of road safety, the driver seat must only be adjusted when the vehicle is stationary.

**PLEASE NOTE:**

Seat anchorages and locking parts have to be checked from time to time. Changes to the Safety belt system is not allowed.

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## **SERVICE PROCEDURE:**

The ISRS Driver Seat is shipped fully assembled. The adaptor base plate, air compressor and pressure switch will ship separately. These service procedures provide instructions on how to replace the current driver seat with the ISRS seat and how to connect the electrical and pneumatics features.

### **Remove Existing Driver Seat:**

1. Remove current driver's seat and drill out the (4) existing seat mount (floor) holes to ½”.
2. Bolt the ISRI seat to the two steel adaptor plates. Follow instructions in Fig 1. On Pg. 2
3. Bolt the adaptor plate/ISRI Seat to the ½” drilled floor holes.
4. See Pg. 8 for air compressor electrical instructions.

**NOTE:** See bolt/nut torque specification on Pg. 6

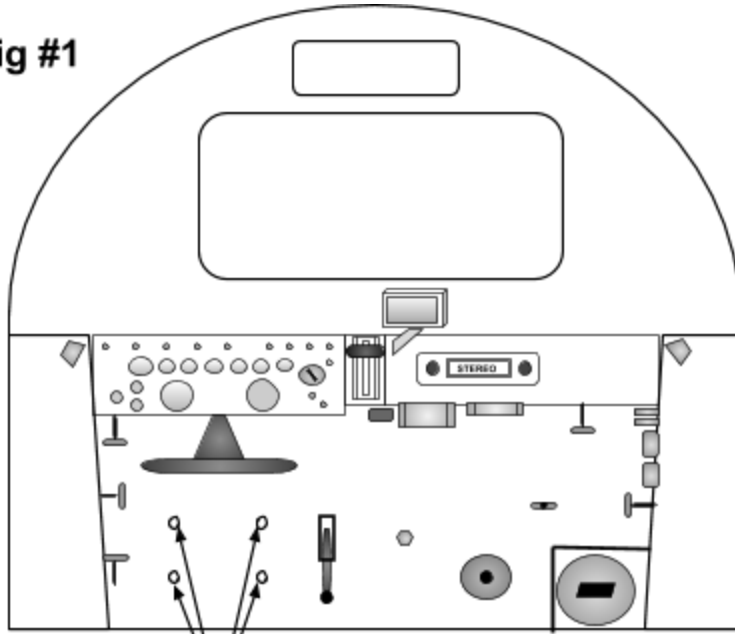
### **Air Compressor:**

1. Install the Stretch duck air compressor bracket as described in Fig #2 on pg. 3. Truck Duck instruction fig# 3 pg. 4.
2. Before securing tank and compressor onto the bracket, clamp bracket into place and drill the two ¼” holes located on the crossmember and the one ¼” hole located on the chasses.
3. After bracket bolts are properly secured install the air tank and compressor.
4. Run airlines as described in Fig 4. Pg. 5
5. Run electrical wires and provide a 20 amp fuse as described in Fig #1 pg. 8.  
**NOTE:** *Stretch Ducks utilize fuse #34 - Truck Ducks utilize ignition hot open fuse. Ensure the fuse ledger is updated to include the driver seat compressor.*
6. Seat operational instructions pg. 11.

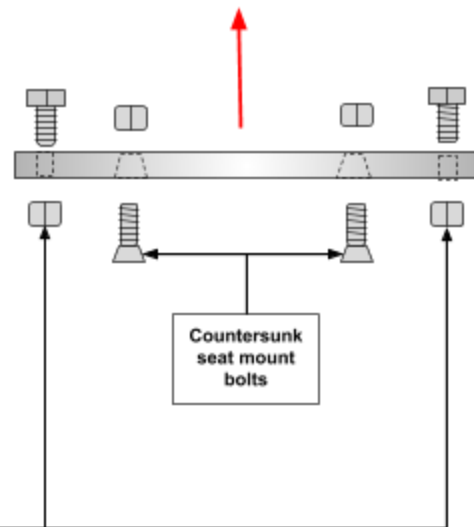
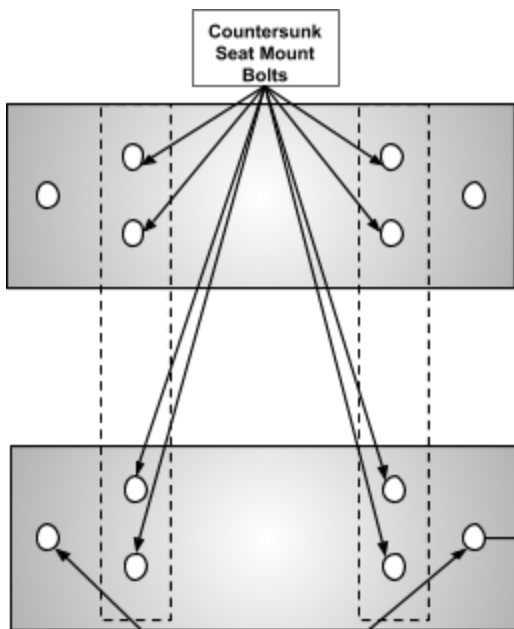
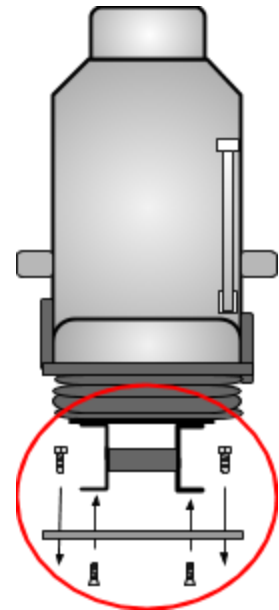
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Fig #1



DRILL OUT EXISTING SEAT MOUNT HOLES TO 1/2"

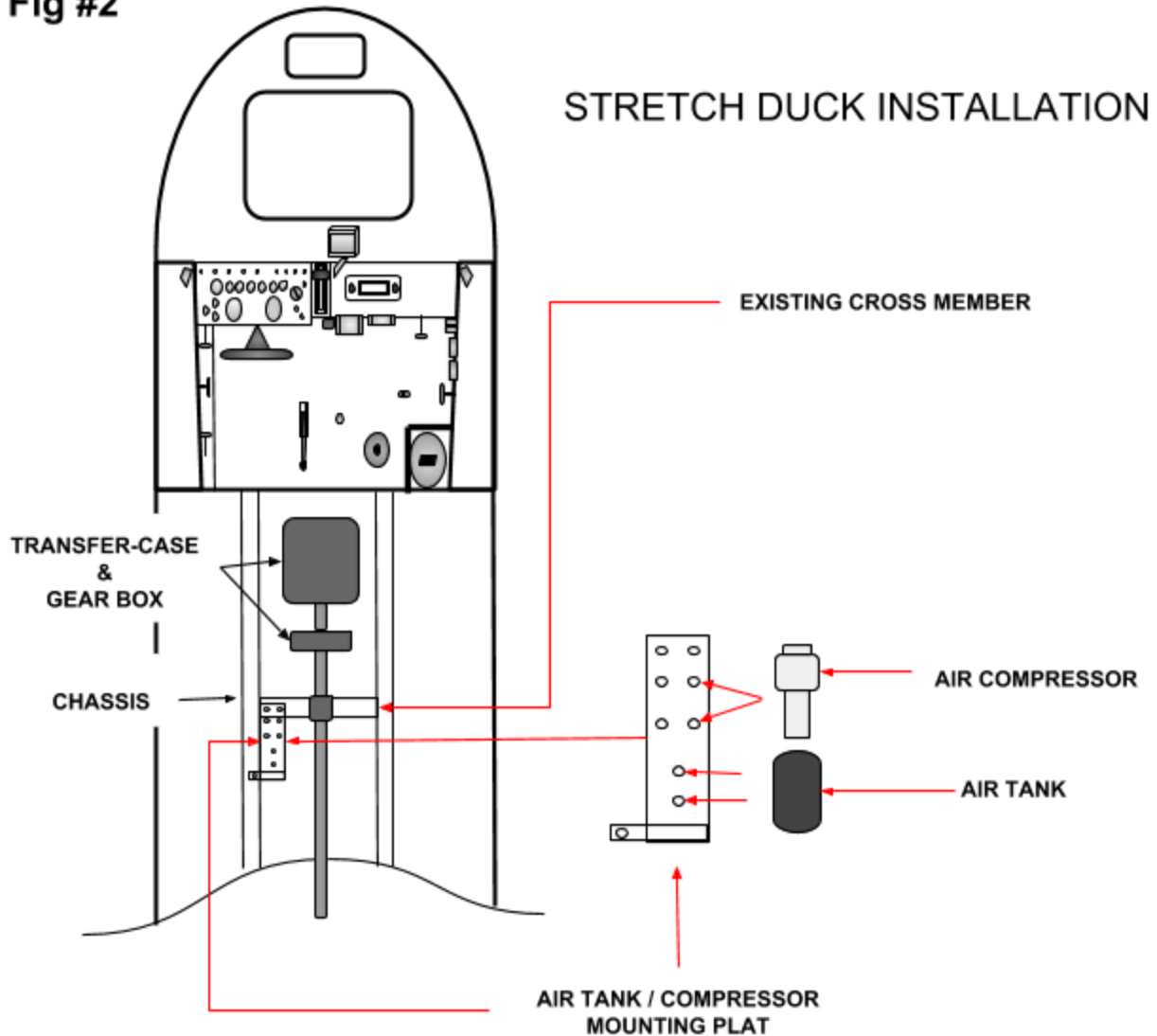


Locate onto the Ducks existing seat mount holes  
NOTE: existing 3/8" holes must be drilled out to 1/2"

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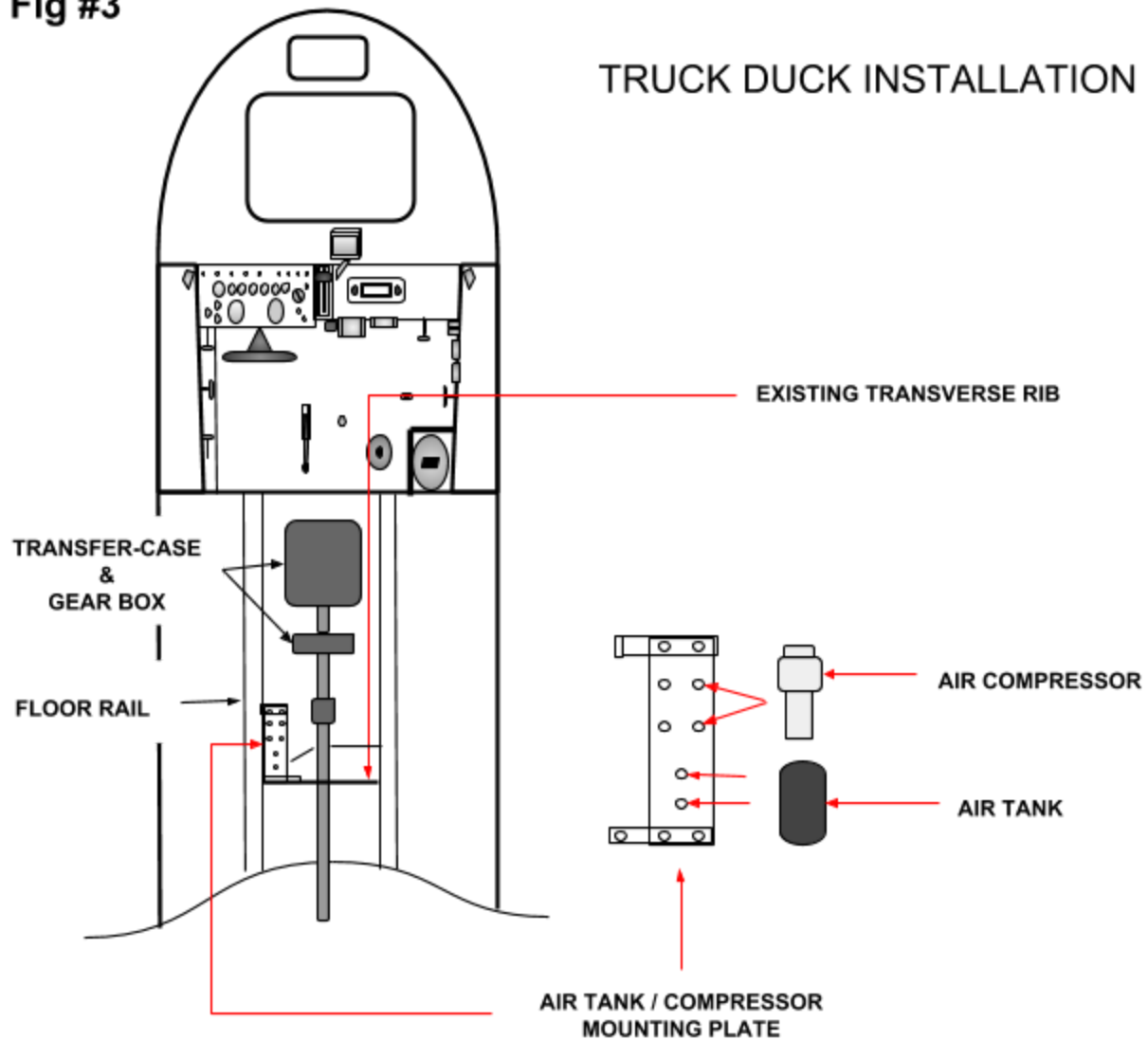
Fig #2



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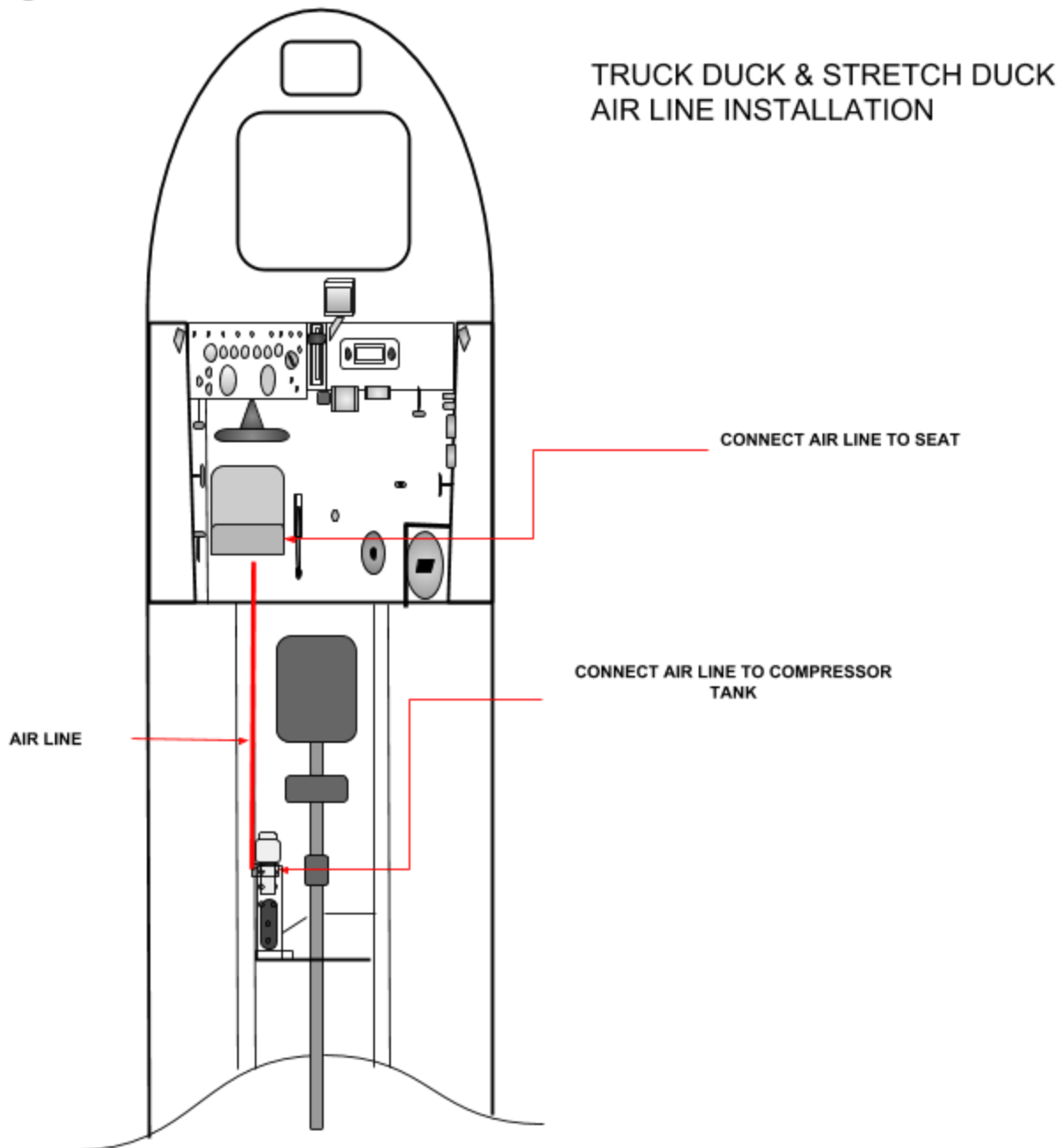
Fig #3



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Fig #4



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Thread	Tensile Stress Area	SAE Grade 2			SAE Grade 5			SAE Grade 8		
Size	TSA	75% Yield Strength (PSI) - 43000			75% Yield Strength (PSI) - 69000			75% Yield Strength (PSI) = 98000		
		Plain	Zinc Plated	Waxed	Plain	Zinc Plated	Waxed	Plain	Zinc Plated	Waxed
	Square Inches	A. lb.	Ft.Lb.	Ft.Lb.	Ft.Lb.	Ft.Lb.	Ft.Lb.	Ft.Lb.	Ft.Lb.	Ft.Lb.
114-20.	0.0318	6	6	3	9	10	5	13	14	6
1/4-28.	0.0364	7	7	3	10	12	5	15	16	7
5116-18.	0.0524	12	13	6	19	21	9	27	29	13
5116-24.	0.0580	13	14	6	21	23	10	30	33	15
318-16.	0.0775	21	23	10	33	37	17	47	52	24
318-24.	0.0878	24	26	12	38	42	19	54	59	27
7/16-14.	0.1063	33	37	17	53	59	27	76	83	38
7/16-24.	0.1187	37	41	19	60	66	30	85	93	42
112-13.	0.1419	51	56	25	82	90	41	116	127	58
112-20.	0.1599	57	63	29	92	101	46	131	144	65
9116-12.	0.1820	73	81	37	118	129	59	167	184	84
9116-18.	0.2030	82	90	41	131	144	66	186	205	93
5J8-11.	0.2260	101	111	51	162	179	81	231	254	115
5J8-14.	0.2560	115	126	57	184	202	92	261	287	131
3/4-10.	0.3340	180	197	90	288	317	144	409	450	205
3/4-16.	0.3730	200	221	100	322	354	161	457	503	228

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## INSTALLATION INSTRUCTIONS FOR MODEL H00850M

IMPORTANT: REVIEW ALL INSTRUCTIONS, PARTS LISTS, & INSTALLATION DIAGRAMS BEFORE STARTING INSTALLATION

### TANK ASSEMBLY

1. Select mounting location for air tank (item#12) keeping in mind the orientation of the tank and visibility of the air gage. (See Figure 1 for sample installation)
2. Thread a brass tee (item#2) into either tank outlet, keep in mind the locations for the attaching parts. Next, thread the shut off valve (item#1) into the brass tee. Then, thread a brass fitting (item#3) into the shut off valve. In the remaining outlet in the brass tee, thread a brass fitting (item#3).
3. Thread another brass tee fitting (item#2) into remaining tank outlet. Thread the pressure gage (item#7) and pressure switch (item#8) into the tee.

**CAUTION:** Tighten pressure switch and pressure gage on brass hex body only.

4. To mount tank drill (2) 11/32 in. diameter holes spaced 4 in. apart in a rigid surface. Insert tank studs through the holes and secure with locknuts (item#11).

### COMPRESSOR ASSEMBLY

1. As shown in figure 2, slide the (2) grommets (item#16) into slots. Next push the (2) brass eyelets (item#15) into the grommets. Pull the (4) bumpers (item#18) through the (4) round holes on the bracket.
2. Clamp compressor head and install brass fitting (item#3) into air outlet as shown in figure 1.
3. Mount compressor on rigid support. Do not mount on fender well, firewall or other flexible material. Locate compressor in area with good air flow and away from road surface to avoid excessive water and dirt conditions.
4. Mounting requires (2) holes spaced 2 3/16 in. apart, each having a diameter of 7/32 in.
5. To mount compressor, insert 10-32 bolt (item#14) through the brass eyelet and through the 7/32 in. hole. Secure with the 10-32 nut (item#17) as shown in figure 2. **Do not overtighten mounting bolts.**
6. Connect nylon tubing (item#6) from air outlet fitting to brass fitting on the tank as shown in figure 1.

### ELECTRICAL ASSEMBLY

1. As shown in figure 1 connect orange (+) wire from compressor motor to either pressure switch terminal.
2. Connect fuse holder (item#13) to the other pressure switch terminal.
3. Install other end of fuse holder to "ignition activated" accessory terminal in fuse panel.
4. Attach motor's black wire (-) to metal ground.

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**NOTE:** Compressor starts automatically when pressure drops below 110 psi. If more than 4 minutes are required to pump tank to full pressure (110-135 psi) with engine running and compressor does not shut off, check all connections with soapy water or bubble solution for leaks. Use thread sealant on all uncoated pipe threads. Maximum cycle time 7 minutes with 30 minute cool down.

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**CAUTION:** Check local noise abatement ordinances to avoid legal violations.

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All Hadley products carry a limited warranty for 12 months from date of purchase. We will repair or replace, at our option, defects in material and workmanship during that period when product and proof of purchase are returned to our service department at the address below.

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Hadley Products  
Attn: Service Department  
2851 Prairie S.W. Suite D  
Grandville, MI 49418

Service Department: (616) 249-8462  
Main: (616) 530-1717  
Fax: (616) 530-3283



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## INSTALLATION DIAGRAM

FIGURE 1

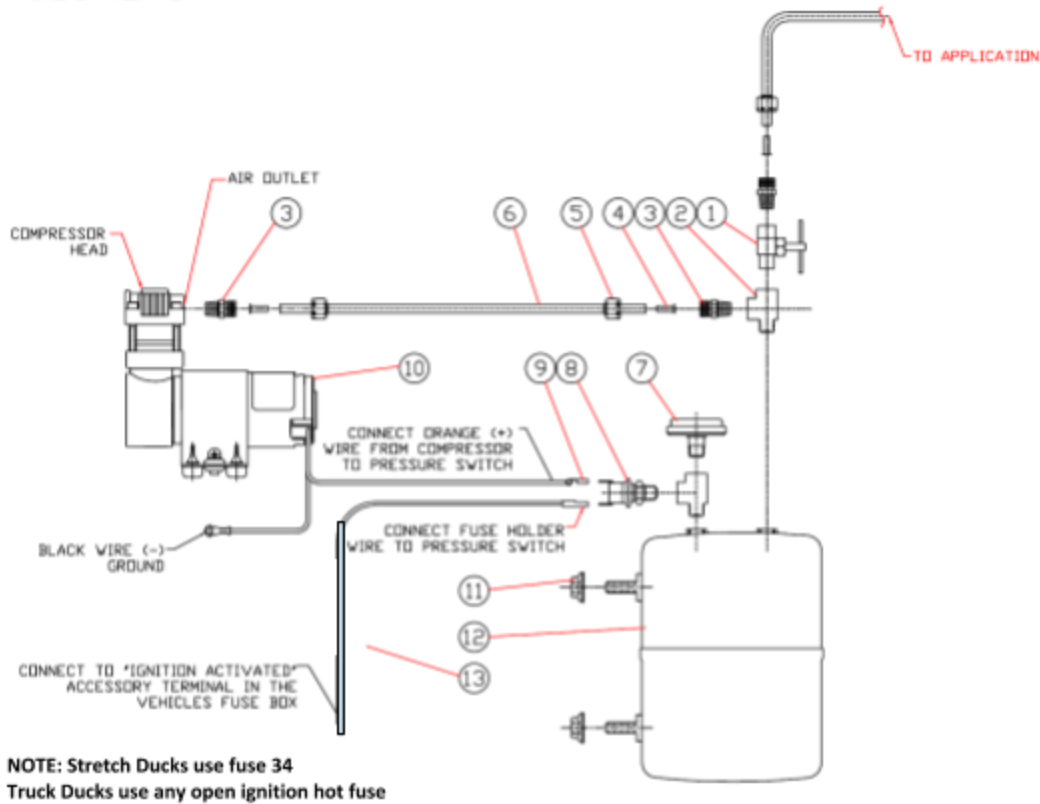
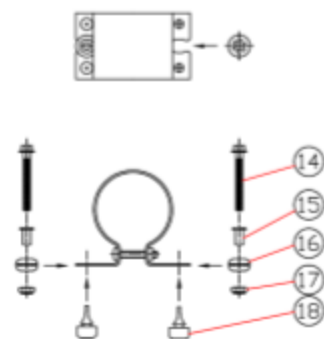


FIGURE 2  
BRACKET ASSEMBLY

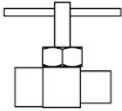
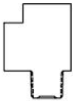




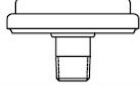




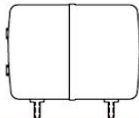
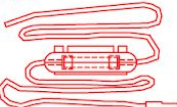










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## PARTS LIST FOR MODEL 850M

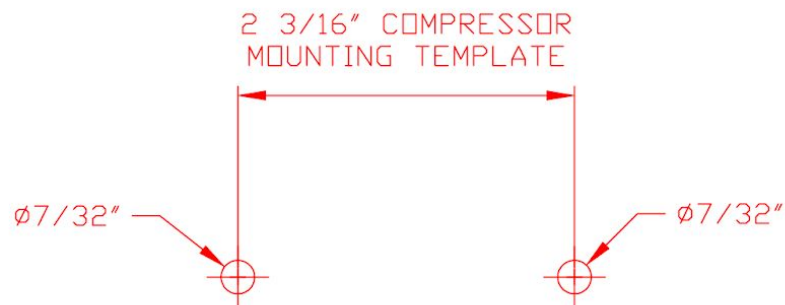
<p>(1)-QUANTITY SHUT OFF H14097</p>  <p>①</p>	<p>(2)-QUANTITY BRASS TEE 1/8 H14654</p>  <p>②</p>	<p>(3)-QUANTITY BRASS FITTING 1/4 X 1/8 H12553</p>  <p>③</p>	<p>(3)-QUANTITY BRASS INSERT H12462</p>  <p>④</p>
<p>(3)-QUANTITY TUBE NUT H15522</p>  <p>⑤</p>	<p>(1)-QUANTITY (20') NYLON TUBING 1/4" H13110-13</p>  <p>⑥</p>	<p>(1)-QUANTITY PRESSURE GAGE 0-160 psi H14212</p>  <p>⑦</p>	<p>(1)-QUANTITY PRESSURE SWITCH H13940A</p>  <p>⑧</p>
<p>(1)-QUANTITY FEMALE TERMINAL H14620</p>  <p>⑨</p>	<p>(1)-QUANTITY MODEL 850 COMPRESSOR</p>  <p>⑩</p>	<p>(2)-QUANTITY LOCKNUT 5/16 H12737</p>  <p>⑪</p>	<p>(1)-QUANTITY AIR TANK H00626</p>  <p>⑫</p>
<p>(1)-QUANTITY FUSE HOLDER H15235</p>  <p>⑬</p>	<p>(2)-QUANTITY BOLT 10-32 H14168</p>  <p>⑭</p>	<p>(2)-QUANTITY EYELET H15224</p>  <p>⑮</p>	<p>(2)-QUANTITY GROMMET H15234</p>  <p>⑯</p>
<p>(2)-QUANTITY NUT 10-32 H14591</p>  <p>⑰</p>	<p>(4)-QUANTITY BUMPER H14572</p>  <p>⑱</p>	<p>(1)-QUANTITY WIRE 16 GA. H12669-2</p>  <p>⑲</p>	<p>(2)-QUANTITY WIRE SPLICE CONNECTOR H13116</p>  <p>⑳</p>
<p>(1)-QUANTITY TEFLON THREAD SEALANT H13943</p>  <p>㉑</p>			

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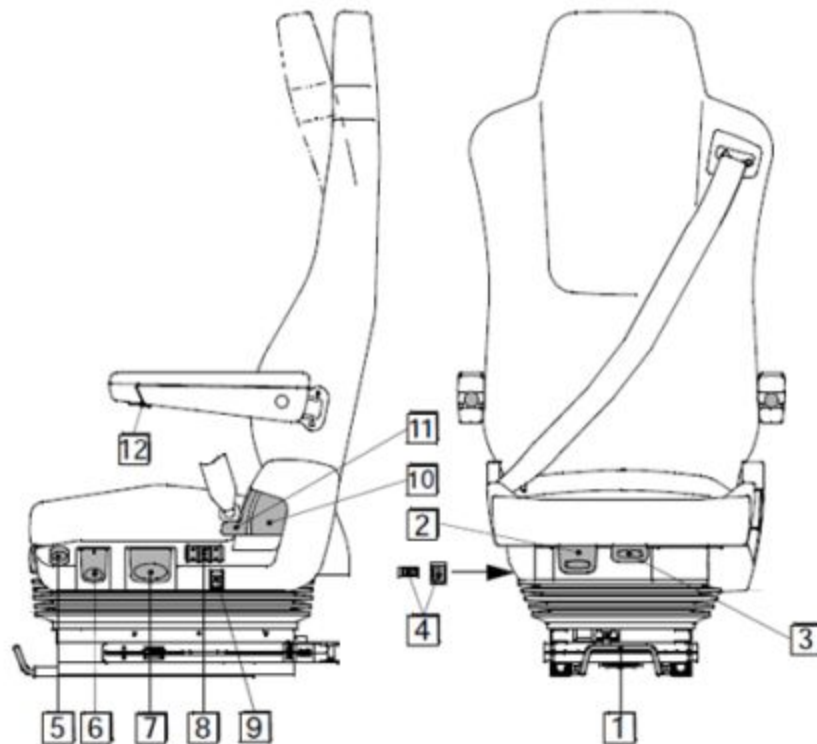
## MOUNTING TEMPLATES



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1	<b>Horizontal Adjustment</b>	<b>Pull lever and move seat forward/backward. Release the lever to lock the seat.</b>
2	<b>Skope Adjustment</b>	<b>Pull handle and adjust the scope by loading/unloading the front seat cushion..</b>
3	<b>Seat Cushion Adjustment</b>	<b>Pull lever and move the seat cushion forward/backward. Release the lever to lock the seat.</b>
4	<b>Heating</b>	<b>Thermostatic regulated heating for seat cushion and backrest. To be switched on resp. off by switch.</b>
5	<b>Lowering</b>	<b>Press switch down. Seat lowers. Press switch up. Seat moves to the adjustment height set.</b>
6	<b>Damper Adjustment</b>	<b>By adjusting the damper, the suspension characteristics of the seat can be optimally adapted to every roadway and every driver. Lever up: minimum damper force. Lever down: maximum damper force.</b>
7	<b>Height Adjustment</b>	<b>Pull or push handle and adjust the seat in desired height.</b>
8	<b>Integrated Pneumatic System</b>	<b>(IPS, 3 buttons). Lumbar support (LS,2 buttons) Press buttons to vent and bleed the corresponding air chamber.</b>
9	<b>Release Swivel Adjustment</b>	<b>Tip up switch and swing the seat. The seat can only be locked facing the engine.</b>
10	<b>Backrest Adjustment</b>	<b>Pull handle and adjust the backrest position by applying your weight to the backrest.</b>
11	<b>Shoulder Adjustment</b>	<b>Pull handle and adjust the upper backrest area in the desired position.</b>
12	<b>Armrest</b>	<b>The Inclination can be adjusted by the knurled knob at the front.</b>

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**DIRECTIONS:** After the repair procedure described above has been fully completed, complete the form below, scan and email the completed form back to RTDI at the following email address.

[fleetoperations@ridetheducks.com](mailto:fleetoperations@ridetheducks.com)

**RTDI TSB No.** 01-18 Driver Seat - Seat Belt & Anchorages

**NHTSA RECALL NO:** 17V-182

**RTD LICENSEE NAME:**

**DUCK VIN#:**

**DUCK LOCAL NUMBER/NAME:**

My signature certifies that I have followed all required Service Procedures and that the RTDI Technical Service Bulletin No. TSB-01-18 has been completed on the vehicle listed above.

**PRINT NAME:**

**SIGNATURE:**

**REPAIR COMPLETION DATE :**

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