

Charging Kit

STBA-CK-B/T-P3

Charging Kit for Bottom and Top Repairable 3000 PSI Accumulators

Includes:

- STBA-PC2157 Charge Valve assembly and test point
- SPG-063-0250-01-P-B04 Gauge 0 to 3625 PSI (0 to 250 bar)
- STBA-P3-3048MM-B 3000 PSI Nitrogen bottle adapter and hose assembly, 3048mm (12 in) long
- STBA-50019 Fitting Adaptor, .305-32 UNS (female) to 5/8"-18-2AUNF (Male)
- STBA-10143 Fitting Adaptor, 7/8"-14 UNF (female) to 5/8"-18-2AUNF (Male)
- STBA-VLV-EXT-1 Gas Valve Extension for 3000 PSI Top Repairable Accumulator
- STBA-C-1 Case with foam

STBA-CK-B-P5

Charging Kit for Bottom Repairable 5000 PSI Accumulators

Includes:

- STBA-PC2157 Charge Valve assembly and test point
- SPG-063-0400-01-P-B04 Gauge 0 to 5800 PSI (0 ... 400 bar)
- STBA-P5-3048MM-B 5000 PSI Nitrogen bottle adapter and hose assembly, 3048mm (12 in) long
- STBA-50019 Fitting Adaptor, .305-32 UNS (female) to 5/8"-18-2A UNF (Male)
- STBA-C-1 Case with foam



Repair Kit

Repair Kit Part # STA-R-1

Repair kit includes the following parts:

- Set of pull rods
- Hydraulic wrench
- Set of gas valve tools
- Case and foam



Accumulator Safety Valve

Accumulator Safety Valves

- Provides manual isolation of the accumulator from the hydraulic circuit
- Integrated relief valve to protect the accumulator from over pressure
- Available with manual or electric dump valves
- Consult STAUFF for more information



Code #61 (3000 PSI)

SAE to Split Flange Connector	
Part #	Description
302-12-12	#12 SAE to 3/4" Flange
302-20-20	#20 SAE to 1-1/4" Flange
302-24-24	#24 SAE to 1-1/2" Flange

Code #61 (3000 PSI)

Split Flanges	
Part #	Description
DB-302--AS-U-B#K	3/4" Split Flange
DB-304--AS-U-B#K	1-1/4" Split Flange
DB-305--AS-U-B#K	1-1/2" Split Flange

Code #62 (6000 PSI)

SAE to Split Flange Connector	
Part #	Description
602-12-12	#12 SAE to 3/4" Flange
602-20-20	#20 SAE to 1-1/4" Flange
602-24-24	#24 SAE to 1-1/2" Flange

Code #62 (6000 PSI)

Split Flanges	
Part #	Description
DB-602-AS-U-B#K	3/4" Split Flange
DB-604--AS-U-B#K	1-1/4" Split Flange
DB-605--AS-U-B#K	1-1/2" Split Flange

Port Adaptors (SAE to Flange)



Pre-Charging

3000 PSI Bladder Accumulators

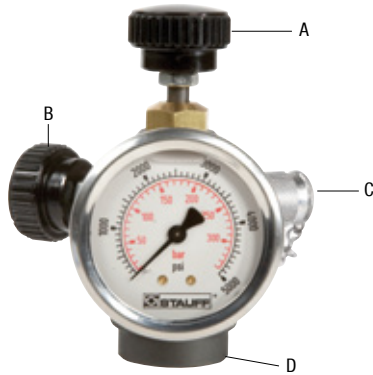


Figure 1.



Figure 2.

1. Isolate the accumulator from the system and make sure hydraulic fluid pressure is zero.
2. Remove the gas valve protection guard and then the gas valve cap from the accumulator (**for top repairable accumulators connect a gas valve extension unit similar to Stauff Part # STA-VLV-EXT-1 at this time**).
3. To charge the accumulator, use a charging hose and gauge assembly similar to Stauff Charging Kit # STBA-CK-B/T-P3 rated for 3,000 psig minimum (higher pressure kits are available).
4. Before using the charging assembly (Figure 1.) make sure that valve **A** is completely open (counter-clockwise), ensure that bleed valve **B** (Figure 1.) is completely closed (clockwise) and that the non-return valve **C** (Figure 1.) is capped.
5. Connect the charging unit to the gas fill valve or gas valve extension unit (for top repairable) on the accumulator by means of knurled cap **D** (Figure 1.).
6. Make sure the valve on the nitrogen bottle is completely closed, then fit the nitrogen gas valve adapter/hose assembly (included in Stauff charging kit # STBA-CK-B/T-P3) onto the nitrogen bottle (Figure 2.).
7. Connect the other end of gas hose to the non-return valve **C** (Figure 1.), after taking off the cap.
8. Turn valve **A** (Figure 1.) clockwise until it stops (**Do not over Torque**).
9. **SLOWLY** open the valve on nitrogen bottle (Figure 2.) and allow the nitrogen gas to flow into the accumulator. The pressure gauge should begin to register pressure.
10. Once the desired gas pre-charge pressure has been reached, close valve on nitrogen bottle (Figure 2.). The pressure should be slightly higher than the desired pre-charge pressure.
11. Open valve **A** (Figure 1.) (Fully counter-clockwise) to bleed the trapped pressure in the gas line to zero by means of bleed valve **B** (Figure 1.), open valve **B** (turn counterclockwise) until gauge reads 0 psig.
12. Remove hose from non-return valve **C** (Figure 1.) and replace cap.
13. Close the bleed valve **B** (Figure 1.) and wait a few minutes for pressure to stabilize.
14. Screw valve **A** (Figure 1.) clockwise until pressure can be read on gauge. This should be slightly higher than the required pressure.
15. Adjust to desired pressure by means of bleed valve **B** (Figure 1.), then remove charging unit from the accumulator gas valve and from the nitrogen bottle (after making sure that the nitrogen bottle valve is completely closed).
16. If necessary remove the gas valve extension unit (top repairable accumulators only), then reinstall the gas valve cap and protective guard cap on the accumulator. The accumulator is now ready for use.

NOTE: Allow the accumulator to rest approximately 10-15 minutes after gas precharging. This will allow gas temperature to adjust and equalize. Recheck gas pressure and adjust if necessary. Check accumulator gas valve for any leaks with soapy water. Always wear safety glasses.