



## SPIRIT FIELD TWISTER - HPA PRO REGULATOR

4.5K LP-HP



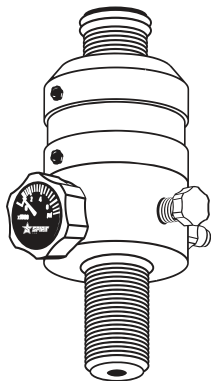
# USER GUIDE

### Welcome!

Thank you for choosing the Spirit Field Twister Regulator. This regulator is engineered for top-level performance, consistency, and user convenience in Paintball and Airsoft applications.

### PRODUCT FEATURES

- Compatible with all 4500psi / 300 bar HPA tanks
- Adjustable output pressure: from 460psi (default) to 800psi (+/-50psi)
- 360° rotatable bonnet for custom fill nipple/gauge positioning
- Aircraft-grade aluminum body
- Integrated pressure gauge
- Fill nipple with debris filter and protective cap
- 1.8K and 7.5K burst disks for overpressure safety



### GETTING STARTED

#### 1. Safety First:

Always wear eye protection when handling pressurized air systems.  
Only install or adjust the regulator when the tank is completely depressurized.

#### 2. Installing the Regulator:

Check that the HPA tank is empty.  
Thread the regulator into the tank by hand. Do not use tools to overtighten.  
Rotate the bonnet to position the fill nipple and gauge where you prefer.  
Ensure all O-rings are in place and undamaged before pressurizing.

#### 3. Pressure Adjustment Guide:

|                                       | Number of Plain Shims Installed: |                    | Output Pressure Aprox. |
|---------------------------------------|----------------------------------|--------------------|------------------------|
|                                       | Thinner Plain Shim               | Thicker Plain Shim |                        |
| Preset from Factory                   | 1                                | 0                  | 560 psi                |
| Remove 1 thin shim                    | 0                                | 0                  | 460 psi                |
| Add 1 Thin shim                       | 2                                | 0                  | 680 psi                |
| Add 2 Thin Shim                       | 3                                | 0                  | 700 psi                |
| Remove 1 thin shim + add 1 thick shim | 0                                | 1                  | 800 psi                |
| Add 1 Thin shim + 1 Thick Shim        | 1                                | 1                  | 820 psi                |

#### IMPORTANT:

THE PROCESS OF ADDING OR REMOVING SHIMS SHOULD BE MADE BY TRAINED PROFESSIONALS  
DO NOT CHANGE THE AMOUNT OR POSITION OF CONCAVE SHIMS  
ALWAYS FULL DISCHARGE THE PRESSURE OF THE TANK BEFORE ADJUSTING

★ **Tip:** Always test output pressure with a gauge before using your marker.

## DURING USE

Always ensure the fill nipple is clean and the protective rubber cap is in place when not filling.  
Check the gauge reading regularly to monitor tank pressure.  
Do not use the regulator if you hear leaks or notice pressure inconsistencies.

## MAINTENANCE:

Before each use:  
Inspect O-rings and burst disks.  
Check bonnet and nipple for tightness.

## AFTER USE:

Wipe down the regulator.  
Store in a cool, dry place.  
Keep the nipple covered.

**X NEVER OPEN OR TAMPER WITH INTERNAL COMPONENTS BEYOND SHIM ADJUSTMENT UNLESS TRAINED.**

## TROUBLESHOOTING:

| Problem                 | Cause                     | Solution                           |
|-------------------------|---------------------------|------------------------------------|
| Air leaking near bonnet | Damaged or missing O-ring | Replace bonnet O-rings             |
| No output               | Burst disk blown          | Replace 1.8K disk (low pressure)   |
| Inconsistent pressure   | Debris in piston/shims    | Disassemble, clean, and reassemble |

## IMPORTANT SAFETY NOTES:

Use only with certified HPA tanks (4500psi / 300 bar max).  
Never exceed the regulator's rated pressure limits.  
Replace burst disks only with proper-rated parts:

**Low pressure: 1.8K**

**High pressure: 7.5K**

For spare parts please refer to the parts diagram available at the product's web site page.

## SUPPORT:

If you experience issues or need spare parts, please contact your supplier or the manufacturer directly at [tech@emboscada.pt](mailto:tech@emboscada.pt)

***Stay safe and enjoy reliable performance on the field!***



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