

### **INSTALLATION INSTRUCTION FOR TH400 ADJUSTABLE PRESSURE REGULATOR KIT (#22047)**

Thank you for purchasing a Coan Racing performance product. Since 1976, Coan Engineering has been the leader in hi-performance race transmissions and converters. Our ongoing research and development assures that you have purchased the best products available.

**\* COMMITMENT \* PERFORMANCE \* RELIABILITY \***  
**\* A WINNING COMBINATION \***

The scope of these instructions will be aimed at the installation of this kit and it is assumed that the transmission will be rebuilt properly in accordance with the installation of this kit. If necessary refer to a transmission manual for detailed instructions on disassembly and reassembly of the Turbo Hydramatic 400 transmission.

1. Remove existing pressure existing pressure regulator/boost valve assembly from pump by depressing the boost valve and removing the retaining ring.
2. Mill, or grind, a slot into the boost valve bore of the pump casting. The roll pin in the boost valve bore plug will engage into this slot and retain the bore plug from turning when adjusting the spring tension (Fig 1.)
3. Using your existing regulator valve, install the spring seat over the stem of the valve (ID shoulder towards spring).
4. Place the supplied spring seat into the aluminum bore plug with the chamfered side of the spring seat towards the set screw.
5. Thread the adjusting screw into the bore plug until it contacts the spring seat. **DO NOT LIFT THE SPRING SEAT OFF THE FACE OF THE BORE PLUG UNTIL THE ENTIRE ASSEMBLY IS INSTALLED.**
6. Install the regulator valve (w/ spring seat), install spring onto the regulator valve, and install the bore plug (w/ washer and adjusting screw) into the pump cover aligning roll pin w/ slot in pump cover (Fig 2).

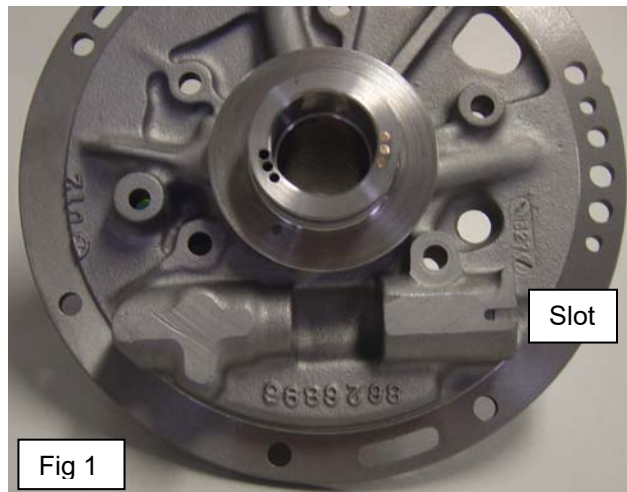


Fig 1



7. Compress the spring and install retaining ring. The new spring has much higher tension than previous spring and can be difficult to compress.

8. As installed, with spring seated on the bore plug, pressure will be approx. 160-170 psi. Adjust to desired setting by turning adjusting screw clockwise. Each turn will increase pressure approx. 7.5 psi.

#### **TH400 Adjustable Regulator Components**

1. Adjusting Screw
2. Jam Nut
3. Aluminum Bore Plug
4. Regulator Spring
5. Spring Seat

If you have any questions regarding the proper installation and/or operation of a Coan Racing product, please call (765) 456-3957. You may also fax us at (765) 456-3960, or e-mail at [coan@coanracing.com](mailto:coan@coanracing.com).

#### **Warranty**

Coan Engineering offers a limited warranty covering all new products for ninety days and all repair service for thirty days from the original date of purchase to be free from flaws in material and craftsmanship. The warranty is non-transferable. Under no circumstances will Coan Engineering extend its warranty to products, new or repaired, which have been abused, misused, or incorrectly installed. Disassembly of any product by means other than a Coan Engineering technician will void any potential warranty. All warranty claims must be accompanied by the original invoice and are subject to the approval of Coan Engineering.

The above stated warranty **does not include** any shipping charges or labor charges for installation or removal of any Coan Racing product.

#### **Liability**

In no manner, neither written nor implied, does Coan Engineering accept liability for consequential or incidental damages to person or property resulting from the use or misuse of its products. Product failure occurring within the stipulations of the warranty policy will be dealt with explicitly under those particular guidelines.

