# DHX RC4

### HIGH-SPEED COMPRESSION ADJUSTER
Adjusts high-speed compression damping by preloading spring, adding or subtracting force to the high-speed compression shim stack

### LOW-SPEED COMPRESSION NEEDLE
Controls flow through center of DSC to provide adjustable low-speed compression damping

### LOW-SPEED COMPRESSION KNOB
Controls position of low-speed compression needle

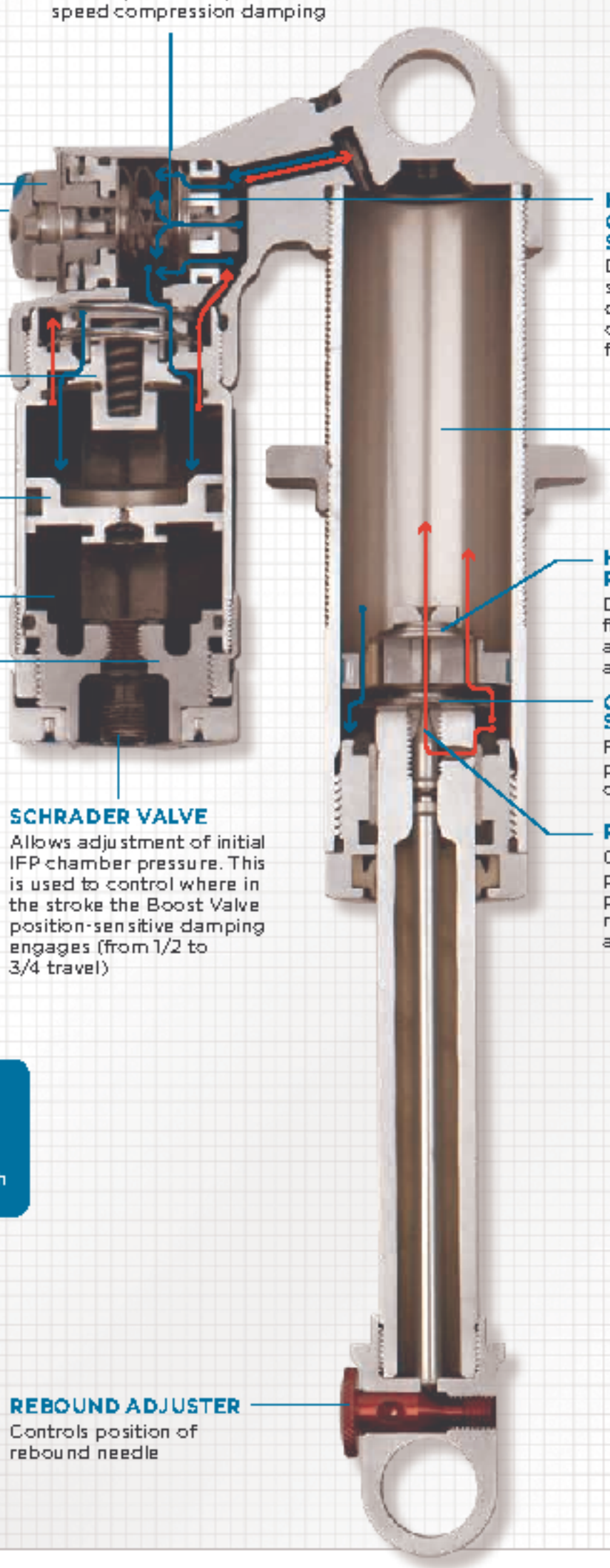
### BOOST VALVE®
Provides bottom-out control compression damping, based on IFP pressure and compression ratio

### INTERNAL FLOATING PISTON (IFP)
Translates to accommodate shaft displaced oil and separates oil from gas

### IFP CHAMBER
Contains pressurized gas to put damping oil under pressure

### BOTTOM-OUT CONTROL PISTON
Determines compression ratio of IFP chamber, and thus the rate of damping created by Boost Valve, as shock approaches bottom-out

### SCHRADER VALVE
Allows adjustment of initial IFP chamber pressure. This is used to control where in the stroke the Boost Valve position-sensitive damping engages (from 1/2 to 3/4 travel)



### HIGH-SPEED COMPRESSION SHIM STACK
Damping created by shims flexing open determines allowance of shaft displaced oil to flow into reservoir

### SUSPENSION FLUID
Provides damping medium and lubrication to shock internals

### HIGH-SPEED REBOUND SHIM STACK
Damping created by shims flexing open determines allowance of oil to flow across piston

### COMPRESSION SHIM STACK
Flow-through main piston provides base level of compression damping

### REBOUND NEEDLE
Controls flow through piston bolt orifice to provide low-speed rebound damping adjustment

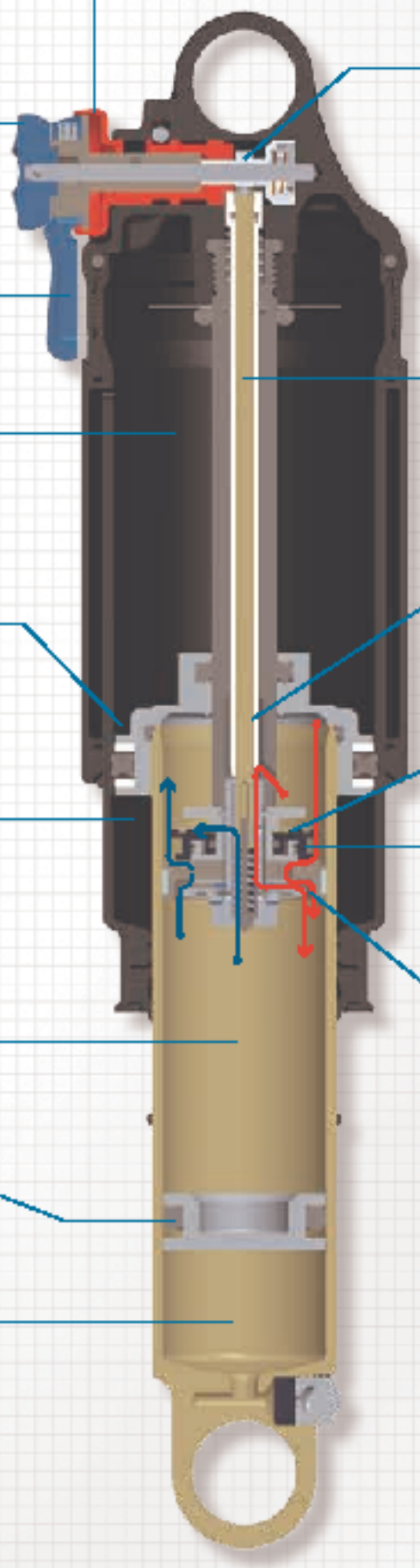
### REBOUND ADJUSTER
Controls position of rebound needle

**LEGEND**

= Rebound flow path

= Compression flow path

# FLOAT RP23



**REBOUND ADJUSTER**
Controls rebound needle position

**PROPEDAL® KNOB**
Selects cam profile which controls ProPedal level

**PROPEDAL LEVER**
Activates or deactivates ProPedal damping

**POSITIVE AIR CHAMBER**
Pressurized air acts as easily adjustable spring

**AIR SLEEVE TRANSFER PORT**
Transfers pressurized air from positive to negative air chamber for automatic self adjusting negative spring

**NEGATIVE AIR CHAMBER**
Pressurized air acts as top out spring and preloads positive air spring, eliminating initial force needed to overcome beginning positive air spring force

**SUSPENSION FLUID**
Provides damping medium and lubrication to shock internals

**INTERNAL FLOATING PISTON (IFP)**
Translates accommodating shaft displaced oil and separate gas from oil

**NITROGEN CHAMBER**
Contains pressurized nitrogen putting damping oil under pressure

**PROPEDAL CAM**
Pushes on ProPedal rod, each profile moves rod a different amount

**PROPEDAL ROD**
Locates ProPedal check and preloads ProPedal spring according to selected cam profile

**REBOUND NEEDLE**
Controls flow through piston bolt orifice providing low-speed rebound damping adjustment

**VELOCITY TUNE COMPRESSION SHIMS**

**BOOST VALVE**
Provides position-sensitive compression damping

**HIGH-SPEED REBOUND SHIM STACK**
Damping created by shims flexing open, allowing oil to flow across piston

**LEGEND**

= Rebound flow path

= Compression flow path