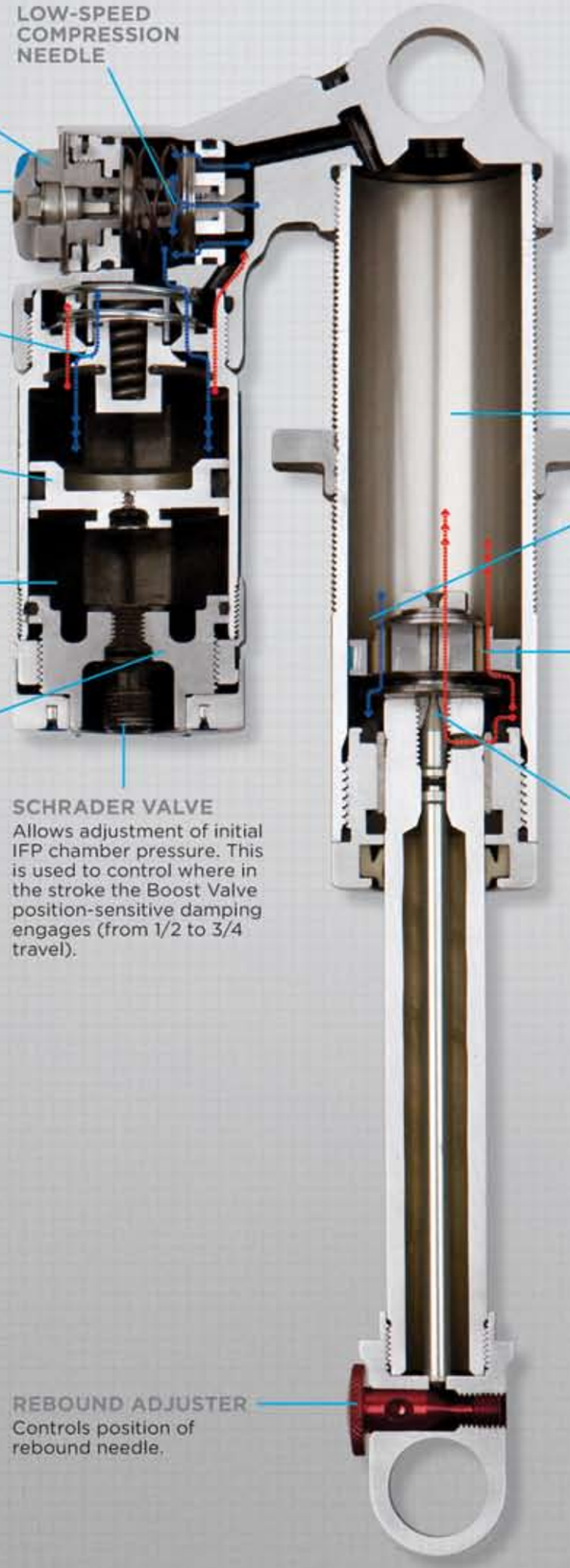
DHX® RC4



HIGH-SPEED COMPRESSION ADJUSTER

LOW-SPEED COMPRESSION NEEDLE

LOW-SPEED COMPRESSION KNOB

BOOST VALVE®
Provides bottom-out control (B.O.C.) 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 (B.O.C.) 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).

SUSPENSION FLUID
Provides damping medium and lubrication to shock internals.

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

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

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

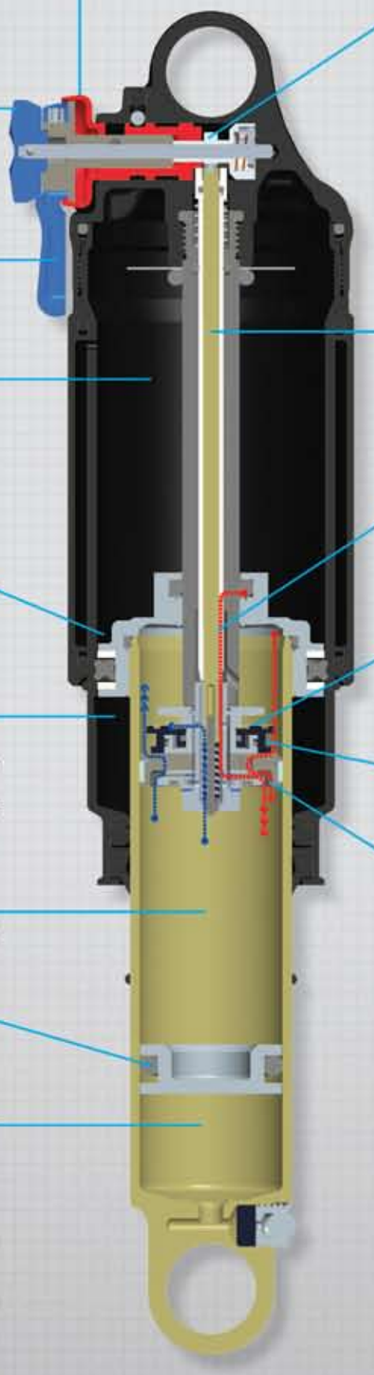
REBOUND ADJUSTER
Controls position of rebound needle.

LEGEND

= Rebound flow path

= Compression flow path

FLOAT RP23



REBOUND ADJUSTER
Controls rebound needle position.

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

PROPEDAL KNOB
Selects cam profile which controls ProPedal level.

PROPEDAL LEVER
Activates or deactivates ProPedal damping.

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

POSITIVE AIR CHAMBER
Pressurized air acts as easily adjustable spring.

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

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

VELOCITY TUNE COMPRESSION SHIMS

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.

BOOST VALVE
Provides position-sensitive compression damping.

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

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.