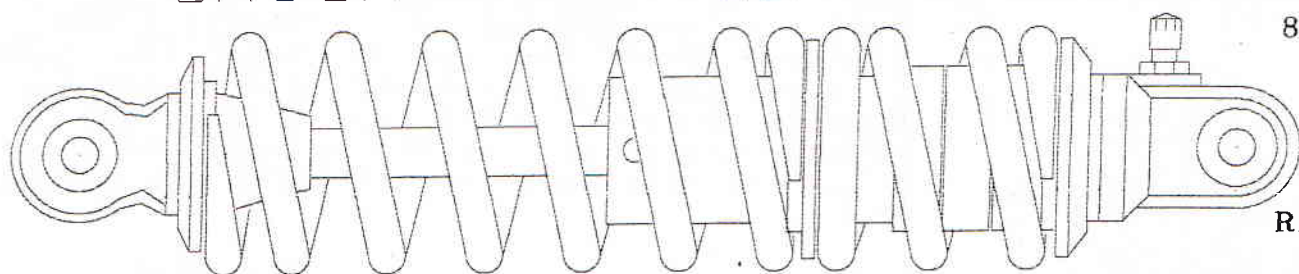


SHOCK SERVICE

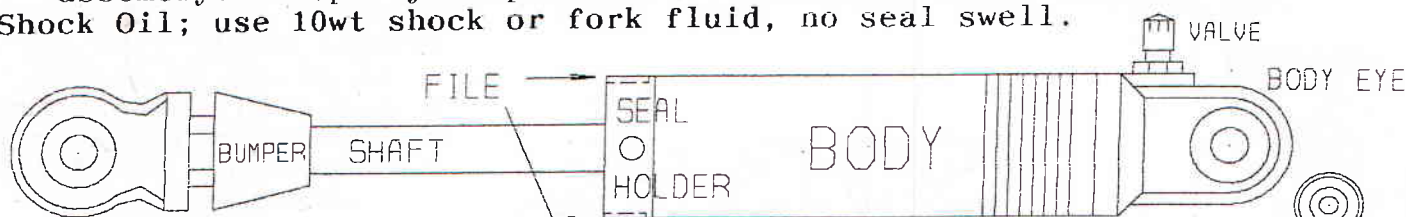
THREADED SEAL HOLDER

service
06/12/03
Works
Performance
818 701 1010



All
Threads
Right Hand

- Take springs off, compress springs to right and remove spring retainer at left. Slip all spring hardware off shock, to be replaced as it came off.
 - Caution:** contents of shocks at 250 lbs of pressure. Turn shock body up so gas will rise to the valve, aim away from you and into can, release pressure, some oil will shoot out. (If rezzy just aim into can and release.)
 - If you have a wrench to turn seal holder skip this step. File two little flats opposite each other on the seal holder, clamp the shock by the flats in the vise body up. Put wrench on body eye, turn counter-clockwise 1 turn.
 - Clamp body eye in vise and turn seal-holder out. Slowly remove the shaft assembly. Properly dispose of old oil and clean.
- Shock Oil;** use 10wt shock or fork fluid, no seal swell.



- () reservoir shocks only (remote or piggy-back) (1) Remove valve core, push valve cap into rezzy body 1/2", remove wire retainer clip (don't scratch bore), pull assembly out by valve stem.

- (2) Fill shock body 1/2 full and rezzy 2/3 full of oil. Bladder full no pressure, valve core to hold air in, push cap-bladder into rezzy so oil overflows as bladder lip seals rezzy. Install wire clip, pull cap up to seat cap on clip (pulling oil from shock body, no air).

- (3) Fill the shock body with oil to 1" from top. Push shaft assembly into shock so the highest point of the piston or spacer is 1/2" below the lip of the body. Set oil level just a bit higher.

- (4) Turn seal holder into body until outer O-ring almost seals, oil should come up through threads, let oil come til it stops (1 min?) (no oil, try again with more oil). Finish turning in seal holder+ add 250 lbs nitrogen (front shocks with 5/8" shaft get 150lbs normally) Pour liquid over rezzy cap & valve to check for leaks. * (Properly filled shock will have no air in the shock or rezzy except inside the bladder. The bladder almost full when shock fully extended, collapses as shock compresses. ((floating piston rezzy set piston for 1/3 oil 2/3 air))

+ Do not overtighten seal holder, snug plus one tug is good +

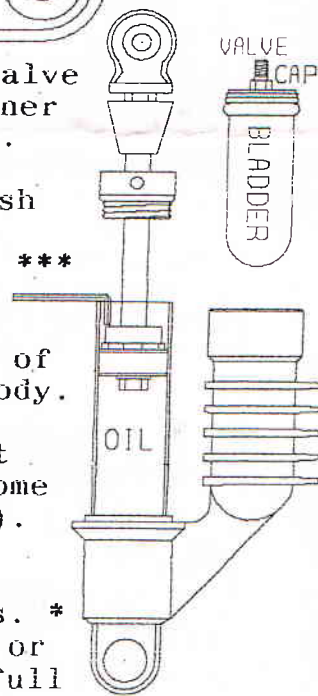
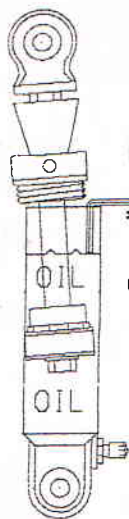
Emulsion Shocks (no rezzy, no floating piston in shock body)

- Body upright fill 3/4 with oil, push shaft assembly as far in as will go.
- Bring oil level to 1" below lip of body. Thread seal-holder+ into body. (important: at least 1/2" air space in shock when compressed)

- Pressurize shock to 250 lbs nitrogen, best done with body up. *

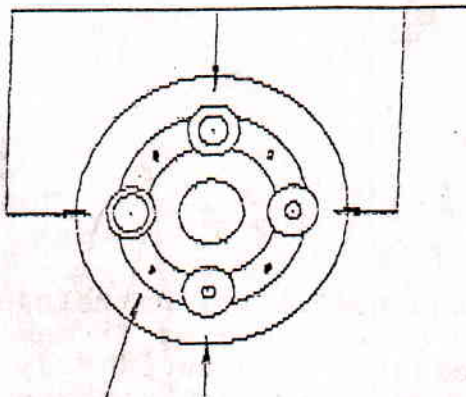
* After service but before you install the springs always compress your shock on floor or scale, pressure resistance should start 40-60 lbs and should not double before bumper hits. Scale wt X 5 = Pressure in shock 1/2" Dia shaft. (Most seal holders go 1/2" into body, adjust oil levels for other holders)

*** Handy depth checkers can be made using coat hanger wire. ***



PISTON INSTRUCTIONS

6/26/96

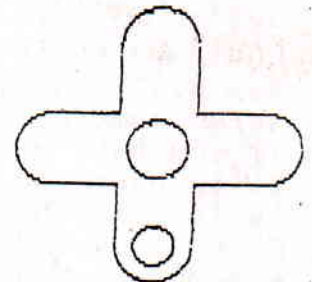


Compression damping holes covered with ball bearings and springs. *Shortest and lightest spring over smaller hole (low speed). Stiffest and or longest spring over largest hole (high speed). Med. speed inbetween. *Some builds use only two springs and leave the low speed ball as a FLOATER (no spring).

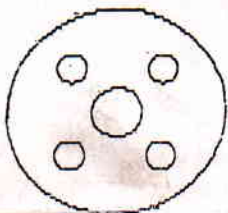
Shallow counterbore (rebound) THRU HOLE unrestricted, usually the smallest none flapper hole.

Flapper holes, usually four on 1 3/8" pistons, if any. No flapper holes no flapper washers.

STAR



FLAPPER



toward piston



it over try again. Side that is up when it rocks goes toward piston. Repeat for each flapper. Backer not cupped, goes either side toward piston.

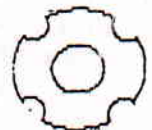
Flapper washers:
.010" Thin flappers next to piston (if any).
Thick flappers (if any) .015" thick, covering thin ones (if any) 1 thick worth 3 thins

Important: Flappers are cupped not flat. Put flapper on flat side of clean piston.

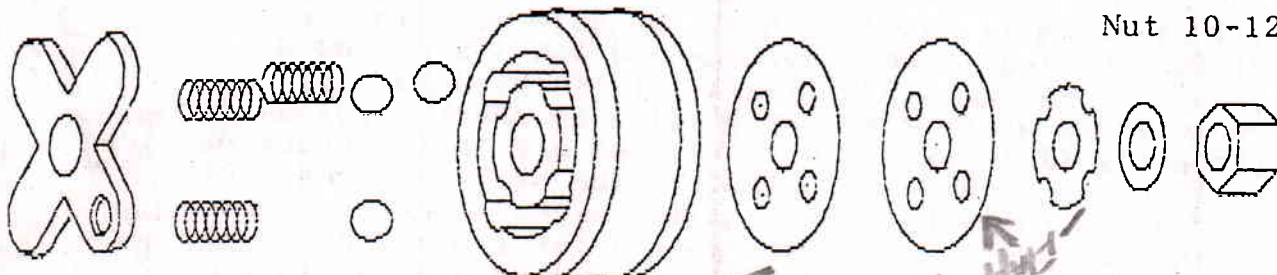
Try to rock flapper, turn

Star holds springs in place in piston. Protrusion toward piston covers rebound hole. * Exception: If FLOATER protrusion covers floating ball.

BACKER

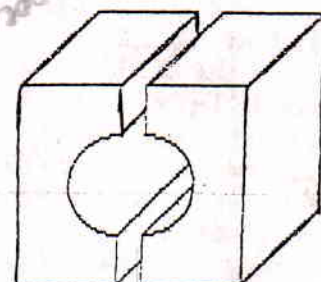


If nut washer has a flatter side, it goes toward backer. Holes in flappers line up with ball holes in piston.



Nut 10-12 ft/lbs

Handy tool to hold shock shaft in vise
1. Find rectangular block of aluminum
2. Drill 1/2" hole thru
3. Saw in half



Handy tool to hold shock shaft in vise
1. Find rectangular block of aluminum
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