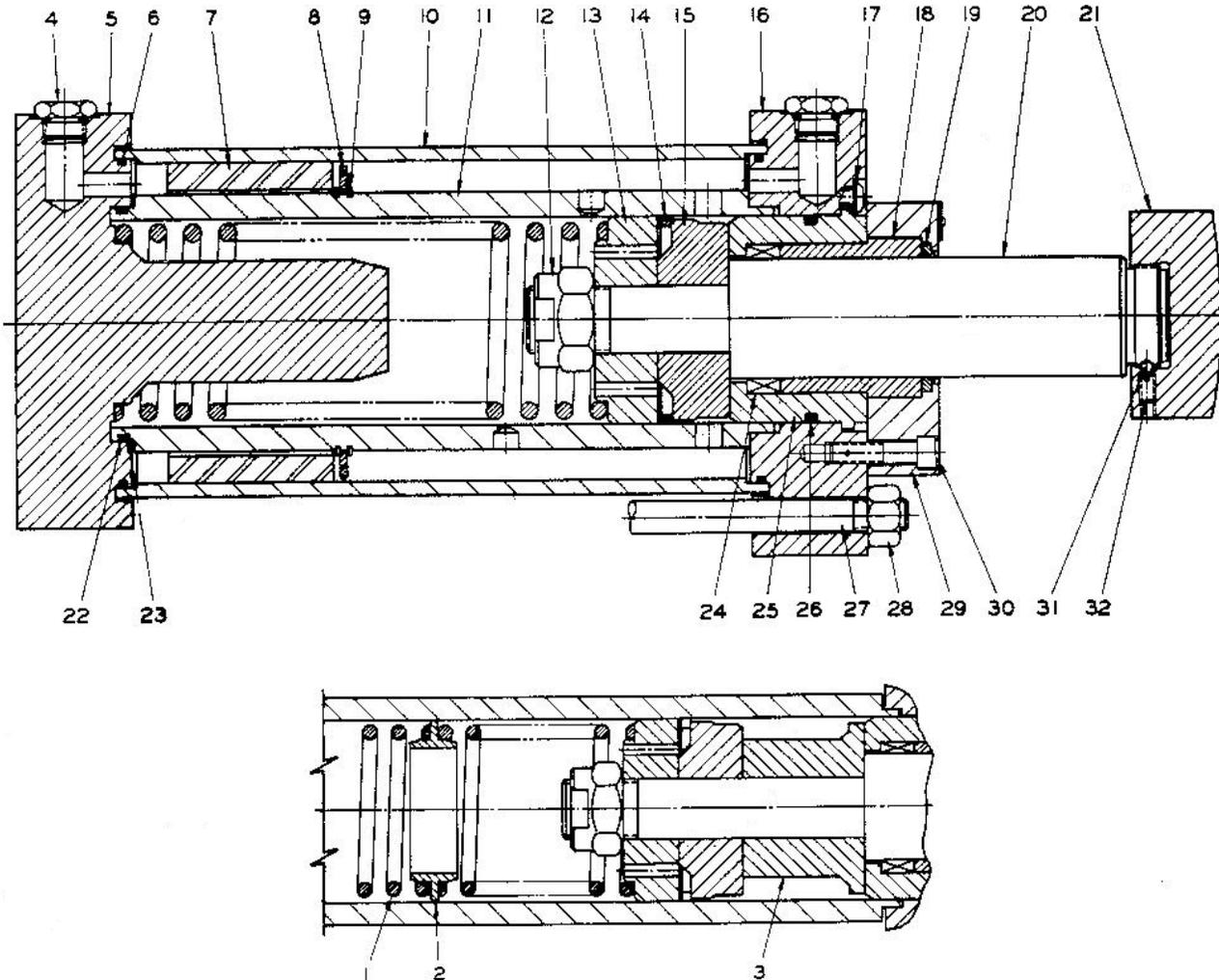


EGD MFG INC
2320 Kishwaukee Street
Rockford IL 61104

Parts List and Maintenance Instructions
4" & 6" Bore Model "HS"
EGD MFG INC Heavy Duty Shock Absorbers

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STOP TUBES USED ONLY ON STROKES
LONGER THAN 12 INCHES

Note: Return springs are wound right or left. Specify when ordering. Assemble springs alternately.

No.	Part Name	Req.
1	RETURN SPRING	*
2	SPRING GUIDE	*
3	STOP TUBE	1
4	PORT PLUG	2
5	BACK HEAD	1
6	HEAD "O" RING	2
7	CELLULAR ACCUMULATOR	1
8	ACCUMULATOR RETAINER	1
9	RETAINING RING	1
10	RESERVOIR TUBE	1

No.	Part Name	Req.
11	METERING TUBE	1
12	PISTON ROD NUT	1
13	PISTON	1
14	PISTON RING	1
15	FOLLOWER	1
16	FRONT HEAD	1
17	GLAND SCREW	2
18	ROD BEARING	1
19	ROD WIPER	1
20	PISTON ROD	1
21	BUMPER	1

No.	Part Name	Req.
22	"O" RING	1
23	BACKUP WASHER	1
24	ROD PACKING SET	1
25	GLAND	1
26	GLAND "O" RING	1
27	TIE ROD	8
28	TIE ROD NUT	8
29	RETAINER	1
30	RETAINER SCREWS	4
31	LOCK BALL	1
32	LOCK SCREW	1

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MOUNTING

Mount the Shock Absorber securely making certain that the shock load will strike the piston rod bumper squarely at all positions throughout its full stroke. At least one of the port plugs must be uppermost to permit bleeding air from the unit.

Attach the make-up reservoir, if used, preferably in the uppermost part of the Shock Absorber to permit air bleeding and replacement of lost fluid.

If an external accumulator is used, connect it at an elevation higher than the Shock Absorber to permit air bleeding. Accumulator bleeder parts should be on top.

FILLING

Fill the Shock Absorber, and make-up reservoir or external accumulator if used, with the fluid specified on the nameplate. Fill the system slowly, loosening the bleeder parts to allow air to bleed out. It helps to move the Shock Absorber piston rod in and out by hand or jack during the air bleeding and filling process. If an external accumulator is used, it should be nearly full when the piston rod is fully depressed. On spring return Shock Absorbers, be sure the rod is fully extended when filling. (Spring return units are filled at the factory, but check the fluid level before operating.)

INSPECTION AND TESTING

Periodically inspect the E.G.D. Adjustable Shock Absorber system to make sure that:

- It is completely filled with fluid and has no air trapped inside (see filling instructions.)
- The piston rod fully returns to the "ready" position after each stroke.
- The piston rod moves and can rotate freely throughout its entire stroke.
- All mounting bolts are tight.

OPERATION

The Shock Absorber does work in bringing a load to stop. It converts this work into heat and dissipates this heat into the surroundings. A spring returns the piston rod to its starting position, ready for the next working stroke. It is extremely important that that piston rod return promptly, otherwise the Shock Absorber cannot do its job.

Each Shock Absorber is custom designed to do a specific job at a specific frequency of operation. Using the Shock Absorber for the purpose for which it was designed and maintaining it properly will give long and satisfactory service.

PARTS REPLACEMENT

Very few parts of the Shock Absorber are subject to wear. The rate of this normal wear depends on the frequency of use and the environment. A glance at the parts list will show how simple it is to replace the wearing parts. On spring return models, always block the rod end before loosening the rod gland.

This is necessary because the springs are preloaded at assembly. Use the parts list to identify the name of the part when ordering and state the model and serial number as it appears on the nameplate.

REASSEMBLY

When assembling standard Model "HS" Shock Absorbers, apply torque as follows.

TORQUE IN FOOT POUNDS

Bore size	Tie rod nuts	Gland screws	Retainer screws	Piston nut and Bumper	Port Plugs
4	170	38	40	440	45
6	240	38	84	600	75

After installing the replacement parts, always inspect the system as described above before putting it back in service.

TYPICAL SHOCK ABSORBER INSTALLATIONS