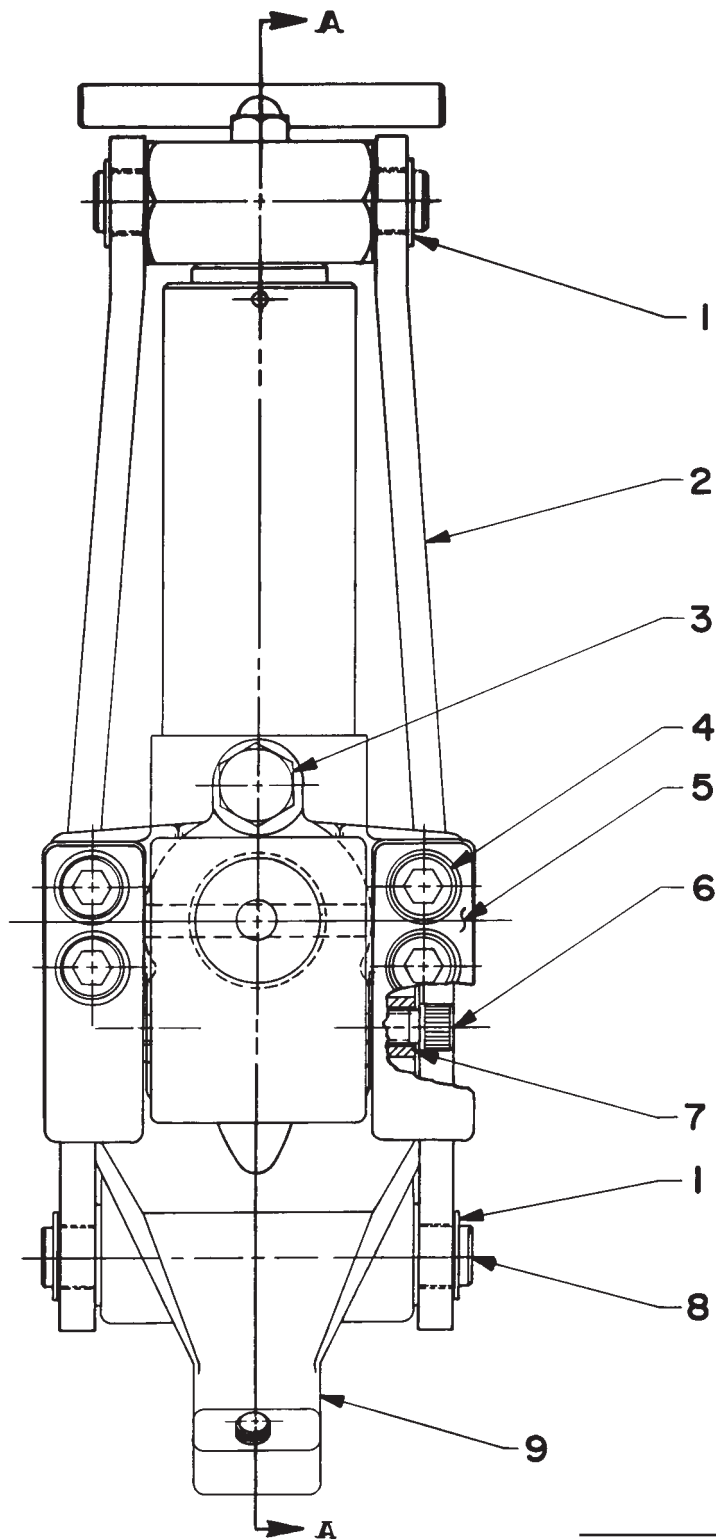


Parts List and Operating Instructions
for

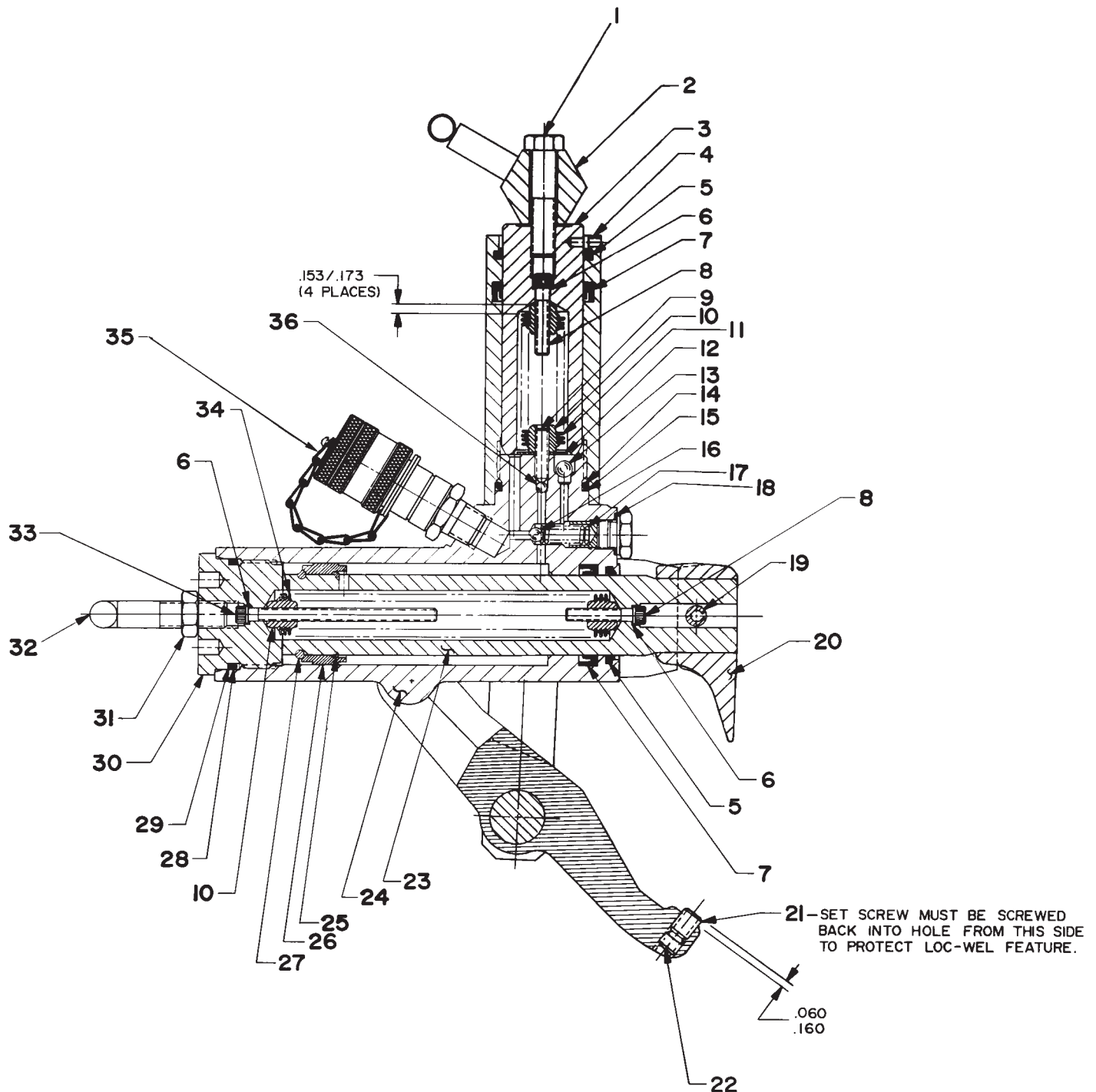
BEAD BREAKER ASSEMBLY
FEC225 and FEC225-Y



Parts List and Operating Instructions, Form No. 105365, Back sheet 1 of 3

Item No.	Part No.	No. Req'd	Description
1	11901	4	Retaining Ring ("E", for 5/8 shaft)
2	350270	2	Strap
3	21599	1	Cap Screw (Torque to 25/40 ft. lbs.)
4	10081	4	Soc. Hd. Cap Screw (1/2-13 x 1-1/4 Lg.; Torque to 80/90 ft. lbs.)
5	306135	2	Replaceable Tooth
6	10846	2	Soc. Hd. Cap Screw (3/8-16 x 1" Lg.; Use Loctite 242 or equiv. on screws and torque to 42/48 ft. lbs.)
7	204238	2	Spacer
8	205288	1	Pin
9	420242	1	Single Jaw

SECTION A-A



Parts List and Operating Instructions, Form No. 105365, Back sheet 2 of 3

Item No.	Part No.	No. Req'd	Description
1	12901	1	Hex. Hd. Cap Screw (7/16-14 x 2" Lg.; Torque to 30/40 ft. lbs.)
2	36949	1	Strap Pivot Handle
3	36862	1	Piston (Single jaw)
4	36861	1	Cylinder (Single jaw; Torque to 125/140 ft. lbs.)
5	16720	2	Rod Wiper
6	10442	3	Copper Washer
7	16721	2	Disogrin U-cup
8	10020	2	Soc. Hd. Cap Screw (1/4-20 x 1-1/4 Lg.; Torque to 90/110 in. lbs.)
9	11116	1	Soc. Hd. Set Screw (1/4-20 x 1" Lg.; Torque to 40/50 in. lbs.; Loctite 222)
10	201360	4	Spring Retainer
11	201430	1	Extension Spring (Lubricate before assembly)
12	17160	1	Special Washer
13	10377	1	Ball (5/16 dia.; Seat at assembly)
14	11841	1	O-ring (1-5/8 x 1-3/8 x 1/8, -220)
15	206751	1	Backup Washer (-220)
16	10375	1	Ball (1/4 dia; Seat at assembly)
17	16724	1	Compression Spring
18	10261	1	Copper Washer
19	10613	1	Roll Pin (3/8 O.D. x 2-1/4 Lg.)
20	36853	1	Claw
21	15985	1	Set Screw (3/8-16 x 1/2 Lg.)
22	18627	1	Soc. Hd. Set Screw (3/8-16 x 3/8 Lg.; Used to lock set screw [item #21] in place.)
23	38052	1	Ram Piston
24	64155	1	Bead Breaker Body
25	204237	1	Retaining Ring
26	204236	1	Bearing
27	201433	1	Retaining Ring
28	10294	1	O-ring (2" x 1-3/4 x 1/8, -224)
29	206750	1	Backup Washer (-224)
30	36864	1	Plug (Torque to 175/225 ft. lbs.)
31	10391	1	Hex. Jam Nut (1/2-13)
32	202636	1	Handle
33	16064	1	Soc. Hd. Cap Screw (1/4-20 x 3-1/2 Lg; Torque to 90/110 in. lbs.)
34	202625	1	Extension Spring (Lubricate before assembly)
35	25600	1	Quick Coupler
36	12223	1	Ball (3/16 dia.)

SAFETY PRECAUTIONS

Follow the tire manufacturer's instructions and the vehicle manufacturer's instructions to deflate, demount, mount, and inflate tires. The following general procedure does not apply to any specific rim, therefore, contact the manufacturer for the correct procedure.



DANGER: To help prevent the possibility of serious personal injury or death,

- Do NOT use the Bead Breaker without reading and understanding the following safety precautions and operating instructions.
- Wear safety glasses at all times.
- Only trained professional technicians who are familiar with this type of equipment and its correct usage should use the Bead Breaker.
- Crib the vehicle with appropriate blocking or safety stands after jacking.
- Stand to one side of the rim when applying hydraulic pressure. The Bead Breaker creates an extremely high force at a moderate hydraulic pressure; if the Bead Breaker slips off the rim, it could cause serious injury or death.

OPERATING PROCEDURE

IMPORTANT: To help prevent possible equipment damage,

- Keep hydraulic coupler and adapter free of any dirt or water.
- Use only Power Team hydraulic fluid. Never use brake fluid or transmission oil.
- Never operate Bead Breaker at full pressure unless the clamps are in position on a tire and rim.

1. Deflate tire by removing valve core from valve.
2. Connect the hydraulic pump hose to the bead breaker coupler.
3. Connect the air supply line to the air/hydraulic pump. The air line should be equipped with a regulator and air line filter. The regulator to be regulated to 100 PSI.
For tube type tires: Remove the lock ring and position the tire on an adjustable tire stand. Turn the bottom side of the rim upward.
For tubeless tires: Just break the back side of the tire and work the beads off the rim using tubeless tire irons.
4. Position the bead breaker so the cup point set screw in the jaw makes solid contact with the rim and the claw is positioned in the crevice between the bead of the tire and the rim.
5. Advance the clamping arm until it contacts the inside of the rim, clamping the tool to the rim. This will force the wedges between the rim and the tire. Continue pumping until the tongue of the breaker pushes the bead free of the rim.
6. Release the pressure. Move the tool and repeat above step until the tire bead is completely free of the rim.