

## Efficiency Plastic Pump Can Repair Kit - Instructions for Repair Kit #AS512025

Major Repair Kit #AS512025 contains parts necessary to service the plastic pump can pump assembly. These instructions are intended for use with this kit. For further service information contact Efficiency Production, Inc.

### Disassembly

1. Empty Tank.
2. Remove bolts #3 & #13 and pump spacer #6 (see illustration "DTCPUMP-COMLETE") and remove pump from container.
3. Remove shoulder bolt #8 from plunger rod and handle & rotate handle away from plunger rod.
4. Slide plunger rod #22 out of pump head body #26 (see illustration "DTCPUMP-SUB") and set plunger rod aside for reassembly.
5. Remove snap ring #23 & wear ring #24 and polyseal #25 from top of pump head body #26 (see illustration "DTCPUMP-SUB")
6. Remove check housing screen #34 and screen clamp #35 (see illustration "DTCPUMP-SUB") if so equipped.
7. Using a pin type spanner wrench (or similar tool) remove bottom check housing assembly from pressure tube #28 and discard o-ring #31.
8. Using a strap wrench (or similar tool) remove pressure tube #28 from pump head body #26.
9. Remove o-ring #27, Snap ring #23, and wear ring #24 from underside of pump head body.
10. Thoroughly clean plunger rod, pump head body, pressure tube, check housing, and snap rings for reassembly.
11. Inspect all parts for wear or damage. Order replacement parts as needed.

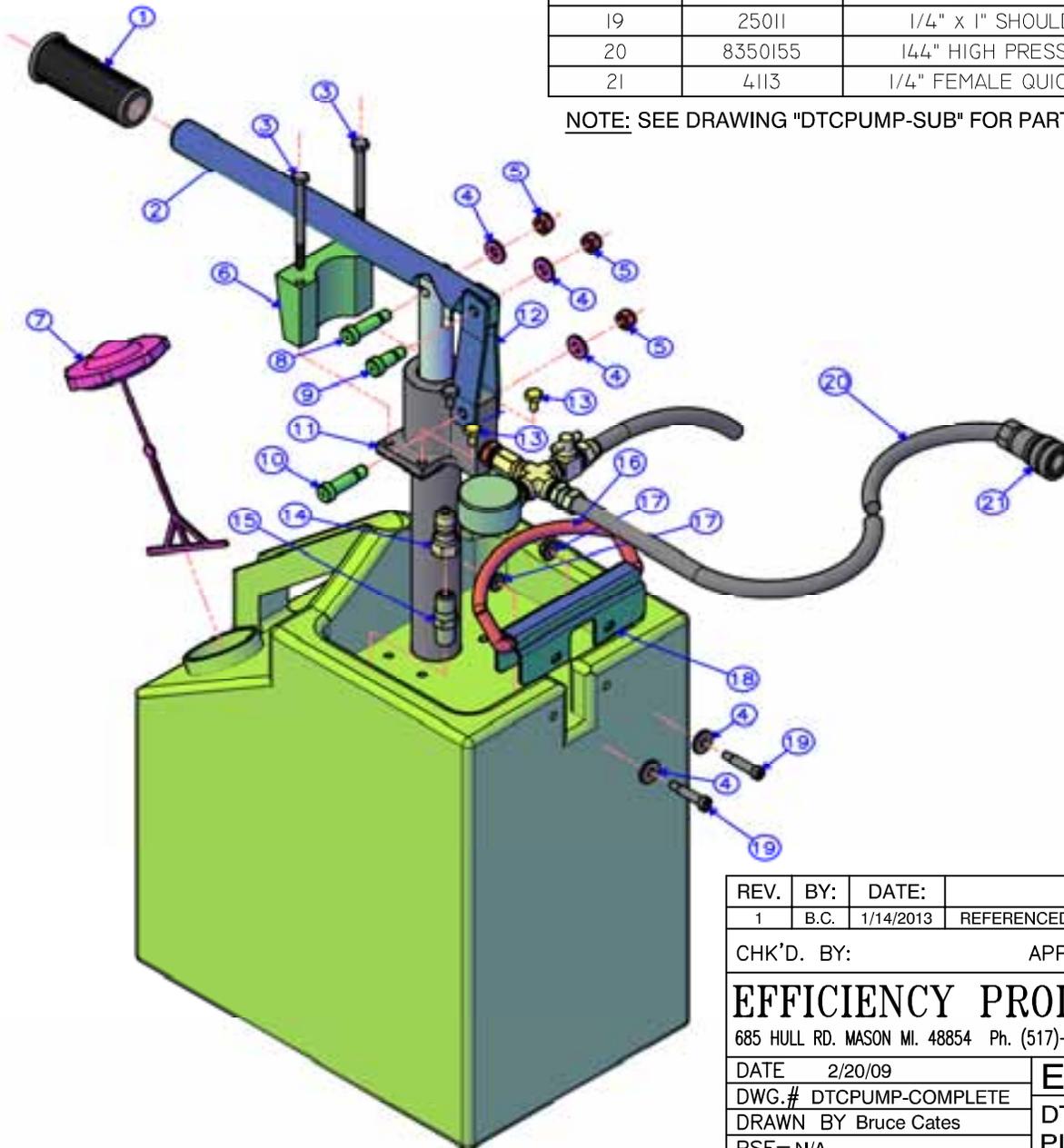
### Reassembly

1. Install new o-ring #31 onto check housing assembly (notice that this o-ring is slightly smaller in diameter and slightly thicker than o-ring #27)
2. Install check housing assembly into pressure tube #28 and tighten with pin type spanner wrench or similar tool.
3. Install check housing screen #34 onto bottom check housing and secure with clamp #35.
4. Install new wear ring #24, reinstall snap ring #23, and install new o-ring #27 into bottom of pump head body.
5. Install pressure tube #28 into pump head #26 and tighten using strap wrench or similar tool.
6. Install new polyseal #25 (note: seal lip goes down) and new wear ring #24 and reinstall snap ring #23.
7. Lightly lubricate plunger rod #22 before inserting back into pump head body #26.
8. Reattach handle to plunger rod with shoulder bolt, washer, and nut removed in step #3 of disassembly.
9. Reinstall pump assembly into container & reinstall bolts #3, bolts #13, and spacer #6. (tighten bolts to secure pump to container but do not over tighten)
10. Partially fill container with appropriate shoring fluid and prime pump with outlet open.
11. Close pump outlet and test pump for proper operation.



ITEM #	PART #	DESCRIPTION	QTY.
1	59501-D	RUBBER HANDLE	1
2	59502-D	PUMP HANDLE	1
3	25016B	1/4"-20 x 3" BOLT	2
4	26010	1/4" FLAT WASHER	5
5	24041	5/16"-18 NYLON LOCK NUT	3
6	59532-D	PUMP HEAD SPACER BLOCK	1
7	59530	FILLER CAP	1
8	25026A	3/8" x 1" SHOULDER BOLT	1
9	25026B	3/8" x 3/4" SHOULDER BOLT	1
10	25026C	3/8" x 1 1/4" SHOULDER BOLT	1
11	DTCPUMP-SUB	PUMP SUB-ASSEMBLY	1
12	59506-D	PUMP HANDLE TIE ROD	2
13	25009	1/4"-20 x 1/2" BOLT	2
14	4864	1/4" MALE QUICK COUPLER	1
15	4707	1/4" x 1 3/8" HEX NIPPLE	1
16	59320	H.D RAIL HANDLE	1
17	24011	#10-24 FLANGE NUT	2
18	59535-D	HANDLE BRACKET	1
19	25011	1/4" x 1" SHOULDER BOLT	2
20	8350155	1/4" HIGH PRESSURE HOSE	1
21	4113	1/4" FEMALE QUICK COUPLER	1

NOTE: SEE DRAWING "DTCPUMP-SUB" FOR PARTS NOT LISTED HERE.



REV.	BY:	DATE:	DESCRIPTION
1	B.C.	1/14/2013	REFERENCED DTCPUMP-SUB DRAWING

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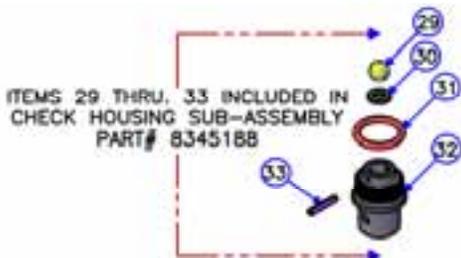
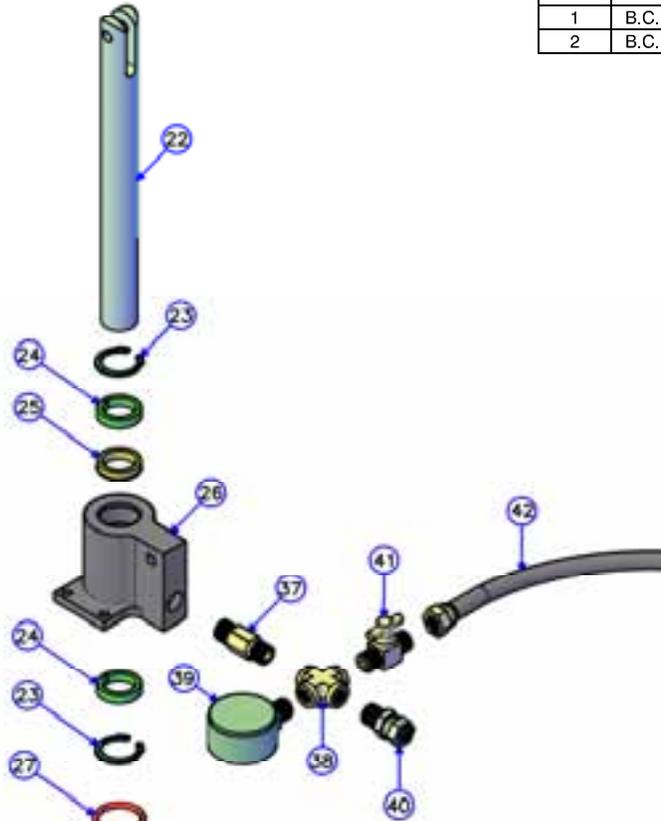
**EFFICIENCY PRODUCTION INC.**

685 HULL RD. MASON MI. 48854 Ph. (517)-676-8800 . FAX (517) 676-0373

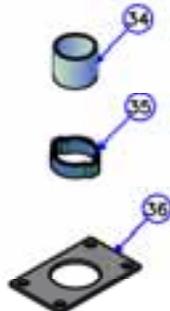
DATE	2/20/09	<b>Efficiency Stock</b>
DWG.#	DTCPUMP-COMplete	
DRAWN BY	Bruce Cates	DTCPUMP-COMplete PLASTIC PUMP CAN COMPLETE ASSEMBLY
PSF=	N/A	
S.O.#	N/A	
PAGE:		



REV.	BY:	DATE:	DESCRIPTION
1	B.C.	9/3/2010	REMOVED 3/8" TO 1/4" REDUCER BUSHING
2	B.C.	1/14/2013	CHANGED ITEM NUMBERS FOR CLARIFICATION



ITEMS 29 THRU. 33 INCLUDED IN  
CHECK HOUSING SUB-ASSEMBLY  
PART# 8345188



ITEM #	PART#	DESCRIPTION	QTY.
22	59504-D	PUMP PLUNGER ROD	1
23	59508-D	SNAP RING	2
24	59509-D	PLUNGER ROD WEAR RING	2
25	59510-D	PUMP HEAD POLYSEAL	1
26	59511-D	PUMP HEAD BODY	1
27	59512-D	PRESSURE TUBE O-RING	1
28	59513-D	PRESSURE TUBE	1
29	59514-D	1/2" DIA. CHECK BALL	1
30	59515-D	CHECK HOUSING NYLON WASHER	1
31	59517-D	CHECK HOUSING O-RING	1
32	59518-D	BOTTOM CHECK HOUSING	1
33	59516-D	1/8" x 1" SS ROLL PIN	1
34	59520-D	CHECK HOUSING SCREEN	1
35	59519-D	SCREEN CLAMP	1
36	59527-D	PUMP HEAD GASKET	1
37	5209	1/4" EXTERNAL CHECK VALVE	1
38	5007	1/4" BRASS CROSS	1
39	59143	LIQUID FILLED PRESSURE GAUGE	1
40	4861	1/4" M/F STRAIGHT SWIVEL	1
41	5207	1/4" - 1/4 TURN VALVE	1
42	59525-D	LOW PRESSURE RETURN HOSE	1

CHK'D. BY:

APPRV'D. BY:

**EFFICIENCY PRODUCTION INC.**

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DATE	2/9/09
DWG. #	DTCPUMP-SUB
DRAWN BY	Bruce Cates
PSF=	N/A
S.O.#	N/A

**Efficiency Stock**  
**DTCPUMP-SUB**  
**PLASTIC PUMP CAN**  
**PUMP SUB-ASSEMBLY**

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