

# OPERATOR'S MANUAL

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

# 641523-X

RELEASED: 12-15-67

REVISED: 5-25-10

(REV. J)

## 641523 & 641523-1 CONTROL HANDLE STAINLESS STEEL



**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,  
OPERATING OR SERVICING THIS EQUIPMENT.**

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

### SERVICE KITS

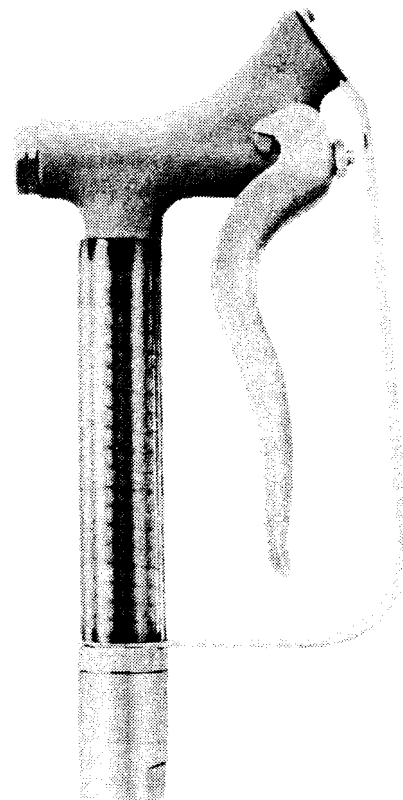
- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.
- **637033** for repair of model 641523 control handle.
- **637033-1** for repair of model 641523-1 control handle.

### GENERAL DESCRIPTION

The 641523-X Control Handle is designed for use in washing applications using detergents for cars & trucks for cleaning solutions such as brighteners for aluminum or stainless steel trucks and trailers.

All metal parts which normally come in contact with the solutions being pumped are made of 300 series stainless steel which is corrosive resistant.

The soft parts inside the control handle determine its model number. A control handle with nitrile seals makes it a 641523. The control handle with PTFE seals makes it a 641523-1.



### **WARNING: HIGH PRESSURE DEVICE**

**IMPROPER USAGE OF EQUIPMENT COULD RESULT IN SERIOUS INJURY.  
THE POSSIBILITY OF INJECTION INTO THE FLESH IS A POTENTIAL HAZARD.  
NEVER ALLOW ANY PART OF THE HUMAN BODY TO COME IN FRONT OF OR IN  
DIRECT CONTACT WITH THE MATERIAL OUTLET.**

**AN INJECTION INJURY CAN BE SERIOUS! IF INJECTION SHOULD OCCUR, CONTACT A  
QUALIFIED PHYSICIAN FOR IMMEDIATE TREATMENT OF SUCH INJURIES.**

## **MAXIMUM WORKING PRESSURE 3000 P.S.I. (206 BAR)**

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# ARO

**IR** Ingersoll Rand  
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## DISASSEMBLY

1. Unscrew the (7) screw.
2. Unscrew the (24) body from the (22) retainer.
3. Unscrew the (18) washer and tube assembly from the (6) valve body.
4. Remove the (20) tube from the (18) washer and tube assembly.
5. Remove the (19) spring from the (18) washer and tube assembly.
6. Remove the (16) trigger guard from the (18) washer and tube assembly.
7. Remove the (22) retainer from the (18) washer and tube assembly.
8. Remove the (21) and the (23) "O" ring from the (22) retainer.
9. Remove the (25) washer.
10. Unscrew the (8) pin from the (15) handle.
11. Remove the (15) handle.
12. Unscrew the (1) cap from the (6) valve body.
13. Remove the (17) gasket.
14. Remove the (2) spring.
15. Remove the (3) ball.
16. Using a 21946T assembly tool, remove the (12) gland.
17. Push the (11) stem out from the end the (3) ball was removed.
18. Work the (13) [3] packing and the (14) washer out of the (6) valve body.
19. Press the (5) insert and the (4) valve seat out in the direction the (3) ball was removed.

## REASSEMBLY

1. Thoroughly grease and install the (21) and (23) "O" ring in the (22) retainer.
2. Slide the (25) washer over the (18) washer and tube assembly.
3. Slide the (22) retainer (threads down) over the (18) washer and tube assembly.
4. Slide the (16) trigger guard over the (18) washer and tube assembly.
5. Slide the (19) spring over the (18) washer and tube assembly.
6. Slide the (20) tube over the (18) washer and tube assembly.
7. Align (16) trigger guard with the (6) valve body.
8. Screw the (18) washer and tube assembly into the bottom of the (6) valve body.
9. Screw the (7) screw into the (6) valve body.
10. Screw the (24) body onto the (22) retainer.
11. Insert the (5) insert into the (4) valve seat.
12. Place the assembled (4) valve seat and (5) insert into the (6) valve body with valve seat behind the insert. (as shown in Figure 2).
13. Insert the (3) ball in the (6) valve body on the (4) valve seat.
14. Insert the (2) spring in the (6) body.
15. Place the (17) gasket over the threads of the (1) cap.
16. Screw the (1) cap into the (6) valve body.
17. Place the (14) washer in the (6) valve body's packing chamber directly under the 1/4" NPTF material outlet.
18. Thoroughly grease and insert the (13) [3] packing into the packing chamber of the (6) valve body.
19. Screw the (12) gland into the (6) valve body (do not tighten).
20. Insert the (11) stem, small end first, through the (12) gland, (13) [3] packing and then the (14) washer.
21. Tighten the (12) gland with the 21946T assembly tool.
22. Place the (15) handle over the (6) valve body so the holes in both parts are aligned.
23. Insert the (8) pin and tighten.

## PARTS LIST / 641523-X CONTROL HANDLE

ITEM	DESCRIPTION (Size in inches)	QTY	PART NO.
1	Cap	(1)	76940
✓ 2	Spring	(1)	76948
✓ 3	Ball	(1)	76954
✓ 4	Valve Seat	(1)	76943
5	Insert	(1)	76942
6	Valve Body	(1)	77508
7	Screw (#6 - 32 x 1/4")	(1)	Y154-30-S
8	Pin	(1)	2487
9	Screw	(1)	2484
10	Nut (1/4" - 28)	(1)	Y11-104-C
✓ 11	Stem	(1)	76941
12	Gland	(1)	76947
✓ 13	Packing (Nitrile) (Model 641523)	(3)	77516
	(PTFE) (Model 641523-1)	(3)	90565

ITEM	DESCRIPTION (Size in inches)	QTY	PART NO.
14	Washer	(1)	76945
15	Handle	(1)	2661
16	Trigger Guard	(1)	79204
✓ 17	Gasket	(1)	F21-23
18	Washer & Tube	(1)	61396
19	Spring	(1)	77511
20	Tube	(1)	77509
✓ 21	"O" Ring (Nitrile) (Model 641523)	(1)	77513
	(PTFE) (Model 641523-1)	(1)	77513-1
22	Retainer	(1)	77514
✓ 23	"O" Ring (1/16" x 15/16" o.d.)	(1)	Y325-19
24	Body	(1)	76953
✓ 25	Washer	(1)	77512
✓	Parts in Service Kit		637033-X

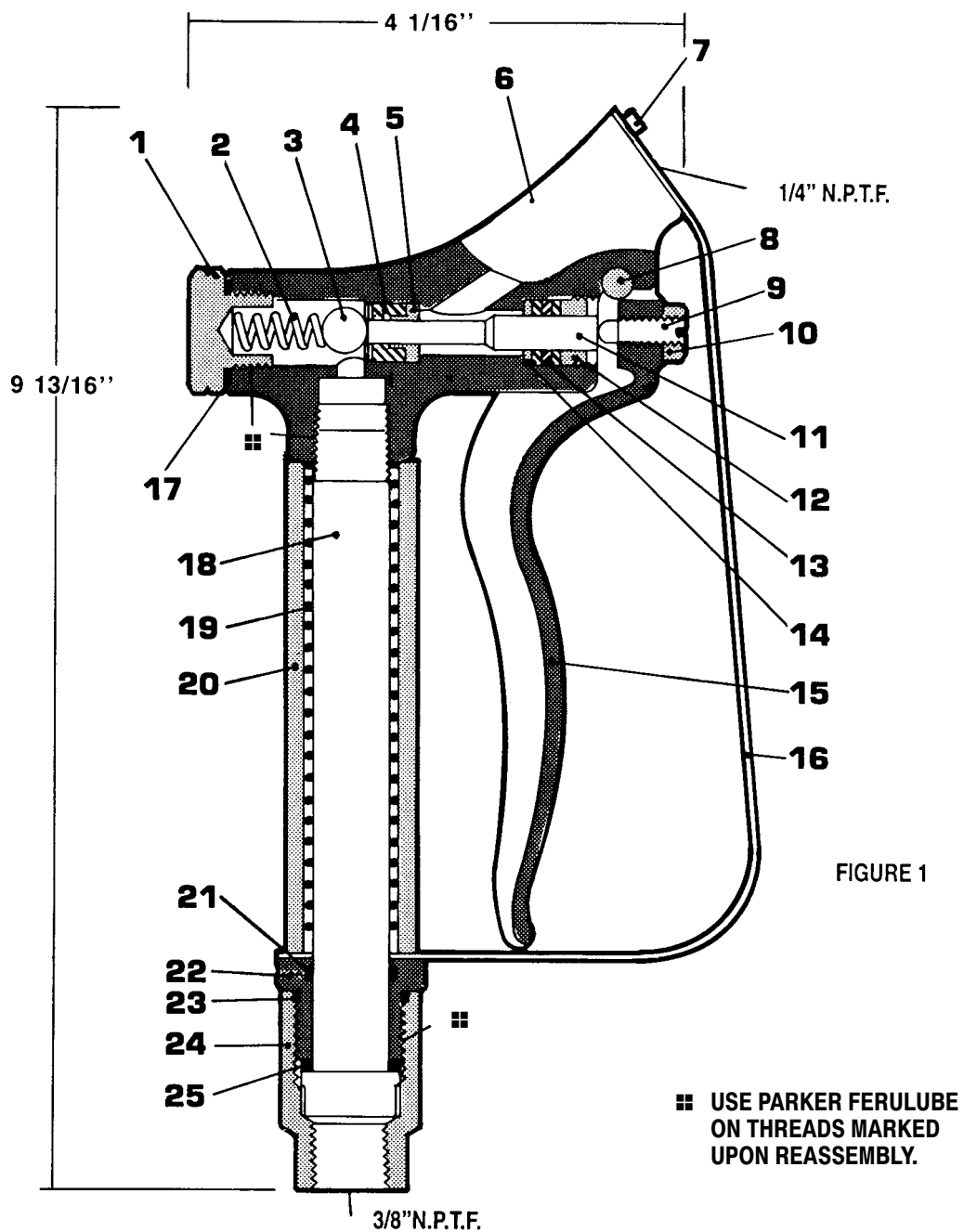


FIGURE 1

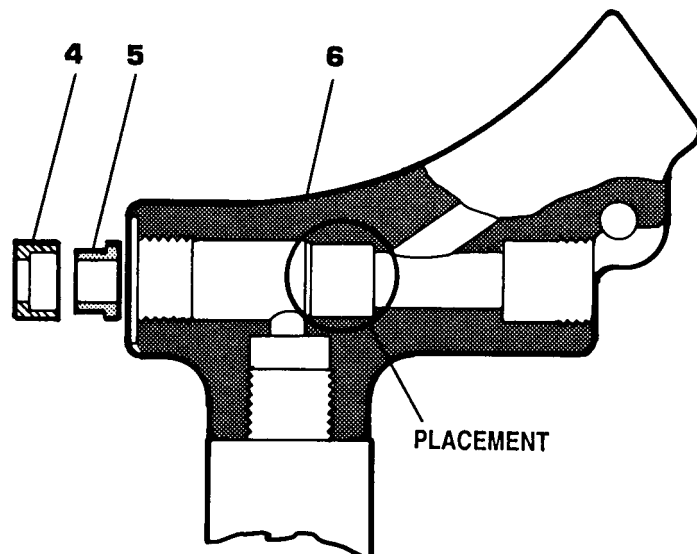


FIGURE 2

