



Tools Required:

5/32" hex wrench
9/16" open or box end wrench or socket
3/4" open or box end wrench or socket
Small flat blade screwdriver

Instructions:**A. Identifying Monitor Version:**

The 3443 Mercury monitor has had the inlet seat components updated in November of 2011. The 91300001 service kit is for monitors with this upgraded seat assembly. If your mercury has the prior seat components then service kit 91280001 is required. To identify which version you have perform the following steps:

1. Remove nozzle from monitor.
2. Move outlet elbow to 30 degree (maximum down) position.
3. Remove four hex head cap screws (40) from the Inlet (39)
4. Pull inlet straight back and swing inlet up and away from the monitor body (it is not necessary to remove the handle from the inlet). Note that the outlet will move up when you do this since the carry handle is still connected.
5. If there is a metal ring with two holes (for a pin spanner wrench, obsolete item 36) in the body of the monitor (13), then you have a first generation Mercury monitor. This monitor will use service kit 91280001. Service kit 91300001 is not compatible with this monitor.
6. If the white plastic seat is held in the inlet (39) by a metal retaining ring (31), then you have the current style monitor and the 91300001 kit will work.

B. Removing old parts:

Valve seat and ball:

1. The seat (36) is held in the inlet (39) with a metal truarc retaining ring (31). To remove the retaining ring, use a small flat blade screwdriver to slide the tapered end of the ring out of the groove in the inlet and lift it up to pull it the rest of the way out of the inlet.
2. Once the retaining ring is removed, the seat (36) and o-ring (32) can be pulled out of the inlet.
3. Remove the external o-ring (35) from the outside diameter of the inlet.
4. To remove the valve ball, rotate the valve handle to the open position.
5. Remove the left trunnion (55) from the monitor body.
6. Remove o-ring (54) from trunnion (55).
7. Remove the ball by pulling from the left side (swinging the left side of the ball to the right).

Ball trunnion: Note: If there is no leakage coming from the ball trunnion (right side under valve handle)these steps can be skipped.

1. Remove hex head cap screw (57) from handle.
2. Remove cover (56), handle assy (48,58,59), stop plate (41) and o-ring (60)
3. Remove the four socket head cap screws (43) from the retaining plate (42)
4. Remove retaining plate (42), note that the handle trunnion (49) and torque spring (50) will come out with the retaining plate. Note the position of the handle trunnion with respect to the retaining plate. It should be re-installed in the same position.
5. Note ball trunnion (53) position in monitor body before removal. It should be re-installed in the same position. The handle trunnion (42, 49, 50) assembly will only fit into the ball trunnion one way. One end of the slot in the ball trunnion is larger than the other. This corresponds to where the torque spring is connected to the handle trunnion.
6. Remove the ball trunnion (53) by pushing it out from the inside of the monitor body. O-ring (52) and retaining ring (51) will come out with the trunnion.
7. Remove o-ring (52) from ball trunnion (53). Do not remove retaining ring (51)

C. Installing new parts:

1. Use parker o-lube or equivalent on all o-rings
2. Use loctite 222 or permabond 113 adhesive on all cap screws
3. Install o-ring (54) on trunnion (55)
4. Install o-ring (52) on trunnion (53)
5. Install trunnion (53) into monitor until retaining ring (51) rests on top of clearance hole.
6. Install handle trunnion assembly (49,50,42) on top of ball trunnion using four socket head cap screws with loctite 222.
7. Install o-ring (60) on handle trunnion (49) and slide it down into the top of the retaining plate (42).
8. Install stop plate (41) handle assembly (48,58,59) cap (56), and hex head cap screw (57).
9. Valve handle should be in open position.
10. Install ball by sliding the grooved end onto the ball trunnion at a slight angle. Once on the trunnion, swing the left side of the ball into the monitor body until the hole in the ball lines up with the hole for the left side trunnion.
11. Install the left side trunnion. Use loctite 222 on the threads.
12. Install o-ring (32) on smaller diameter side of seat (36).
13. Install seat/o-ring assembly into inlet (39) o-ring side first.
14. Install retaining ring (31) into groove in inlet (39).
15. Install outer o-ring (35) on inlet outer diameter.
16. Install inlet assembly to monitor body using four hex head cap screws with loctite 222.

This completes the repair process for the 3443 Mercury Monitor.



**STYLE 9130
MERCURY™ QUICK
ATTACK MONITOR
SERVICE KIT INSTRUCTIONS**

ITEM NO.	DESCRIPTION	PART NUMBER	QTY
3	SWIVEL 2 1/2" NH	123528	1
4	CARBIDE TIP SPIKES	*	3
5	SCREW	765220	2
6	O-RING	757045	1
7	WASHER	784143	2
8	SWIVEL PLUG	742023	1
9	BRASS BALL	**	38
10	GASKET	717043	1
11	OUTLET	118874	1
12	BALL OUTLET	118875	1
13	BODY ◊◊	118876	1
14	SPRING	769670	1
15	LATCH SPRING	769694	1
16	WEDGE SPRING	769693	1
17	ROLL PIN	744088	1
18	ROLL PIN	744221	1
19	ROLL PIN	744288	1
20	HANDLE	118877	1
21	END CLEVIS †††	122968	1
22	SPRING HOLDER	118879	1
23	SPRING GUIDE	118884	1
24	SHAFT	769669	1
25	LATCH WEDGE	784144	1
26	LATCH PLATE	745138	3
27	RIGHT LEG	118885	1
28	LEFT LEG	118886	1
29	TRUNNION	773339	4
30	O-RING	757356	2
31	VALVE SEAT† ◊	769156	1
32	O-RING† ◊	757017	1
33	O-RING† ◊	757035	1
34	RETAINING RING ◊	102176	1
35	O-RING† ◊	757073	1
36	HOUSING SEAT ◊	102174	1
37	BALL† ††	703429	1
39	INLET ◊◊◊ †††	118880	1
40	HEX HEAD CAP SCREW	761016	4
41	STOP PLATE	742073	1
42	RETAINING PLATE	742089	1
43	SOCKET HEAD CAP SCREW	765028	4
48	HANDLE HUB	721278	1
49	HANDLE TRUNNION	102178	1
50	TORQUE LOCK SQUARE SPRING	768210	1
51	RETAINING RING	758154	1
52	O-RING† ††	757010	1
53	BALL TRUNNION	102179	1
54	O-RING† ††	757198	1
55	THREADED TRUNNION	102177	1
56	COVER HANDLE	109177	1
57	HEX HEAD CAP SCREW	761045	1
58	HANDLE ROD	109193	1
59	BALL	703080	1
60	O-RING† ††	757284	1
85	WASHER	784145	2
86	ID BAND	704710	1
94	ID WARNING PLATE	744419	1

ITEM NO.	DESCRIPTION	PART NUMBER	QTY
95	NAIL GRIP	736052	6
96	OPEN/CLOSE TAG	773340	1
98	HEX HEAD CAP SCREW	761082	1
99	FLAT WASHER	784093	1
104	SAFETY STRAP	34430039	1
105	BOLT PLATE	745135	1
108	SCREW SOC HD SETCUP	765002	1
110	BEARING	704235	1
111	STREAM SHAPER	119644	1
200	MOUNTING BRACKET	118881	1
201	BRACKET LATCH ASSEMBLY	729407	1
202	SCREW	761041	2

UPDATED INLET ASSEMBLY			
31	RETAINING RING	758286	1
32	O-RING ††	757364	1
35	O-RING ††	757073	1
36	SEAT ††	769858	1
39	INLET†† †††	123522	1

* PACKET OF 3 CARBIDE TIP SPIKES P/N 9443-0001
 ** PACKET OF 50 BALL BEARINGS P/N 123074
 † FIELD SERVICE KIT #91280001 - For original inlet assembly
 †† FIELD SERVICE KIT #91300001 - For updated inlet assembly
 ◊ Obsolete, replace all parts with updated inlet assembly parts listed above
 ◊◊ Obsolete, replaced by 121923, requires updated inlet assembly parts listed above
 ◊◊◊ Obsolete, replaced by 121921. Can be used with original body 118876, with items 31, 32, 35, and 36 from updated inlet assembly parts list above.
 ††† 121921 replaced by 123522
 123522 can only be used with updated Item 21: 122968



PHONE: 330.264.5678 or 800.228.1161 | FAX: 330.264.2944 or 800.531.7335 | akronbrass.com

REVISED: 6/17

WARRANTY AND DISCLAIMER: We warrant Akron Brass products for a period of five (5) years after purchase against defects in materials or workmanship. Akron Brass will repair or replace product which fails to satisfy this warranty. Repair or replacement shall be at the discretion of Akron Brass. Products must be promptly returned to Akron Brass for warranty service.

We will not be responsible for: wear and tear; any improper installation, use, maintenance or storage; negligence of the owner or user; repair or modification after delivery; damage; failure to follow our instructions or recommendations; or anything else beyond our control. WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, OTHER THAN THOSE INCLUDED IN THIS WARRANTY STATEMENT, AND WE DISCLAIM ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. Further, we will not be responsible for any consequential, incidental or indirect damages (including, but not limited to, any loss of profits) from any cause whatsoever. No person has authority to change this warranty.

© Akron Brass Company. 2017 All rights reserved. No portion of this can be reproduced without the express written consent of Akron Brass Company.