

TABLE OF CONTENTS

BEFORE SERVICING LIFTER	2
SERVICE SCHEDULE	2
SERVICE FEATURES	3
SERVICE PROCEDURES.....	4
AIR FILTER MAINTENANCE – 1 OZ BOWL SIZE	4
Filter Service Procedure	4
AIR FILTER MAINTENANCE – 4.4 OZ BOWL SIZE	6
Filter Service Procedure	6
VACUUM PUMP TEST.....	8
TILT COMPONENTS MAINTENANCE.....	9
Tilt Actuator	9
Tilt Speed Valves	9
Tilt Stop Valves.....	9
Tilt Master Valve	10
REPLACEMENT PARTS.....	11

BEFORE SERVICING LIFTER



Disconnect power source before servicing lifter.

Disconnect the compressed air supply (figs. 1A-B).

Service personnel must read and understand the lifter's *OPERATING INSTRUCTIONS* – especially the “INSPECTIONS AND TESTS” and “MAINTENANCE” sections – before servicing the vacuum



lifter. Many of the following discussions assume knowledge of the *OPERATING INSTRUCTIONS*.

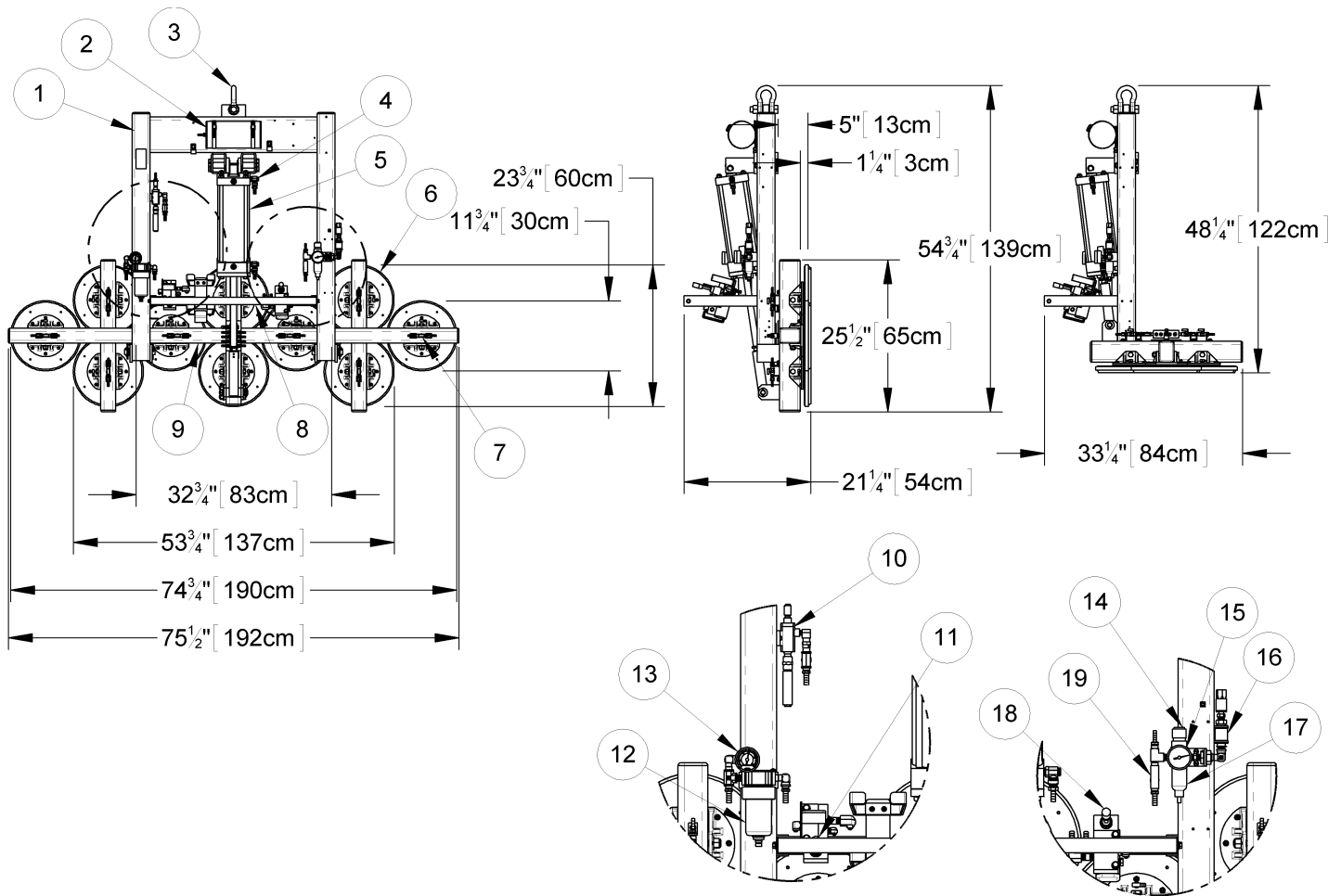
Note: The final section of the lifter's OPERATING INSTRUCTIONS may contain hose-routing diagrams for reference when servicing or troubleshooting the lifter.

SERVICE SCHEDULE

Service must be performed whenever a deficiency is indicated by routine inspections or tests. Follow the “INSPECTIONS AND TESTS” section of the *OPERATING INSTRUCTIONS*. Any service warranted must be performed before resuming normal operation of the lifter.

SERVICE FEATURES

Components shown here are underlined> on their first appearance in each section to follow.¹



- | | | | | | |
|----|-----------------------|----|-------------------------------|----|-------------------------------|
| 1 | LIFT BAR | 2 | VACUUM RESERVE TANK | 3 | LIFT POINT |
| 4 | TILT SPEED VALVE | 5 | TILT ACTUATOR | 6 | VACUUM PAD |
| 7 | PAD SHUTOFF | 8 | CONTROL HANDLE | 9 | PAD FRAME |
| 10 | VACUUM PUMP (venturi) | 11 | VACUUM CONTROL VALVE | 12 | AIR FILTER — 4.4 OZ BOWL SIZE |
| 13 | VACUUM GAUGE | 14 | AIR PRESSURE REGULATOR | 15 | PRESSURE GAUGE |
| 16 | AIR SUPPLY VALVE | 17 | AIR FILTER — 1.0 OZ BOWL SIZE | 18 | TILT CONTROL VALVE |
| 19 | TILT MASTER VALVE | | | | |

Note: A standard PT1010TAIR is shown (component locations vary among models).

1..... Some components may not be applicable, depending on the lifter in question.

SERVICE PROCEDURES

AIR FILTER MAINTENANCE – 1 OZ BOWL SIZE

! *Inspect each air filter regularly, and service when necessary.*

Immediately remove liquid or other contaminants found in the filter bowl (A in fig. 1A), to prevent contact with the filter element (C in fig. 2A).

⊘ *Never use bowl drain (circled in fig. 1A) to remove liquid, because this could cause air leak.*

Replace the filter element whenever:

- It has an overall dirty appearance.
- There is a noticeable increase in the time required to attain full vacuum.

Filter Service Procedure

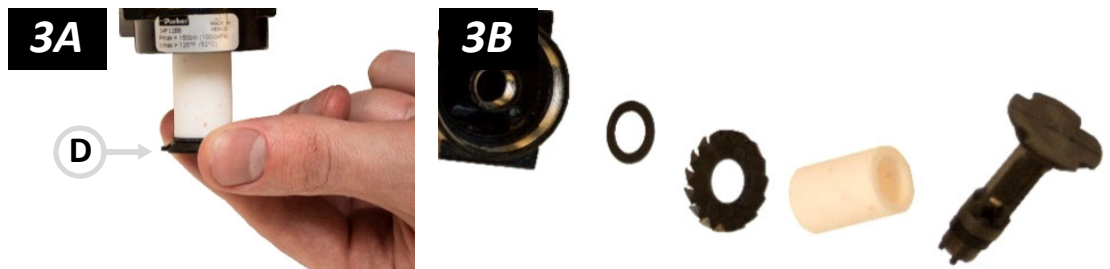
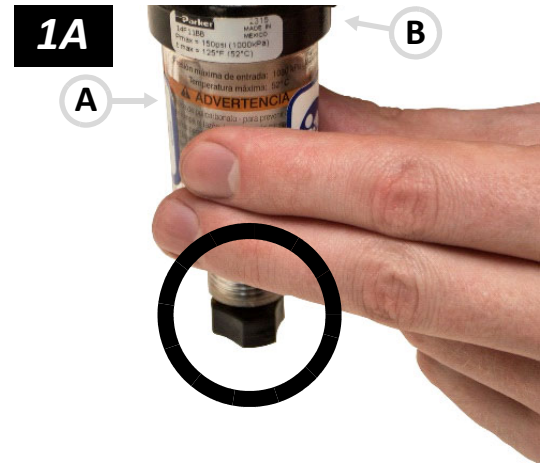
1) Unscrew the bowl (item A in fig. 1A) from the body (item B in fig. 1A) of the air filter.

Note: To protect air-line fittings from damage, hold the body while turning the bowl.

2) Determine whether the filter element (item C in fig. 2A) needs to be replaced (see above).

- *If so, proceed to step 3.*
- *If not, remove any liquid or contaminants from the bowl; clean the old bowl seal (see step 4 on next page) with mild soap and water; and skip to step 6.*

3) Carefully unscrew the element holder (item D in fig. 3A) and remove all internal parts (fig. 3B).



SERVICE PROCEDURES

VACUUM PUMP TEST

The venturi-type vacuum pump (fig. 1A) can wear out over time, as a result of particle abrasion. If the lifter is unable to attain a minimum vacuum level of 16" Hg [-54 kPa] (see "Vacuum Test" in the lifter's *OPERATING INSTRUCTIONS*), evaluate the pump:

- 1) Systematically test all other components in the vacuum generating system for leakage.¹ Continue only when leakage has been eliminated as the cause of insufficient vacuum.
- 2) Make sure the power source consistently supplies compressed air to meet both pressure and volume requirements as stated in the "SPECIFICATIONS" of the lifter's *OPERATING INSTRUCTIONS*.
- 3) Connect the compressed air supply and adjust the air pressure regulator as directed in "ASSEMBLY" of the lifter's *OPERATING INSTRUCTIONS*. Make sure the minimum air pressure requirement is maintained at the lifter.
- 4) If the pump is equipped with a muffler (circled in fig. 1A), remove it and perform the "Vacuum Test" as directed in the lifter's *OPERATING INSTRUCTIONS*. **Caution:** *Hearing protection is recommended when the muffler is removed.* If the lifter is now able to attain a minimum vacuum level of 16" Hg [-54 kPa], replace the muffler (see "REPLACEMENT PARTS"). If not, proceed to step 5.

If the pump is not equipped with a muffler, proceed to step 5.
- 5) Perform the "Vacuum Test" as directed in the lifter's *OPERATING INSTRUCTIONS*. If the lifter is unable to attain a minimum vacuum level of 16" Hg [-54 kPa], replace the pump (see "REPLACEMENT PARTS").



1..... For more information, search for your lifter's Model Number at www.wpg.com and select the "Troubleshooting" link on the product page.

