


Tire Deflation & Inflation Tool Operation Instructions OTR-TDC-SYS



The benefits of the Haltec Deflation – Inflation Tool

- This tool was designed to reduce the deflation times when exhausting air from OTR tire assemblies
- Short term ROI
- Very low maintenance
- Highest quality parts used
- Easy to service air exhaust muffler
 - The 0-3 psi “low” pressure air gauge is positioned at the muffler intake
 - A pressure reading above 1.5 psi will indicate that the “4” exhaust elements will require replacement
 - Replacement muffler elements are available from Haltec Technical Services – part # 0911060
- Each tool comes equipped with:
 - 20’ air line.
 - Valve stem adaptor - comes with unions for both the SLB & Z-Bore size valve stems
 - Weather-guard muffler rain cover
 - Protective enclosure
 - Deflation hose & pressure sensing hose
 - Low tire pressure indicating light
 - Rechargeable battery (for 100 & 240 V, 1.5 max, 50/60 Hz)

How it works

- This tool operates on compressed air, creating an ultra-high vacuum, that continuously draws the air from the tire at a much higher volume than atmospheric flow rates
 - The tool performs most effectively when using a compressor producing 155 cfm @ 150 psi.
 - All combined testing has calculated a 30% to 60% savings in deflation times.
 - These times will vary depending on the type of deflation method that is currently being used, the size of the tire, the contained air temperature, the valve stem size and the volume of air to actuate the deflation tool
 - This tool has been Engineered and Certified
 - Safe and easy to use
 - Quiet, this tool operates at 80 dB
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Operating instructions

Haltec Tire Deflation – Inflation Tool

OPERATING INSTRUCTIONS

To Deflate the Tire:

- 1.) Be sure that “ALL” three ball valves are closed
- 2.) Attach the valve stem adaptor to the tire assembly valve stem and remove the core housing.
3. Attach the tire pressure sensing hose the to back side of the IN-95 core removal tool.
- 4.) Open the “bottom” ball valve to allow the air to flow from the tire through the deflation tool and into exhaust muffler.
- 5.) Open the “top” ball valve to allow the compressed air supply to activate the tool,
- 6.) Once the tire is completely deflated, close the top and bottom ball valves.
- 7.) Run a piece of rigid wire through the stem to make sure it is not plugged.

To Inflate the Tire:

- 1.) Be sure that “ALL” three ball valves are closed
- 2.) Opening and closing the “vertical or center” ball valve controls the compressed air flow to the tire.

Compressed Air supply

This table compares the amount of Vacuum gained (%) as the air flow is increased, indicated by the pressure at the tool's Input gauge.

Our test studies indicated that the minimum amount of pressure at the input gauge should be 100 psi.

Deflation tool pressure reading at the input gauge (psi)	Compressor SCFM required	% vacuum increase
100 - minimum	105	0%
110	115	4%
120	125	7%
130	135	12%
140	140	16%
150 - Maximum	155	21%



Tire pressure gauge

Compressed air supply intake port

Compressed air supply gauge

Filter/muffler exhaust pressure gauge



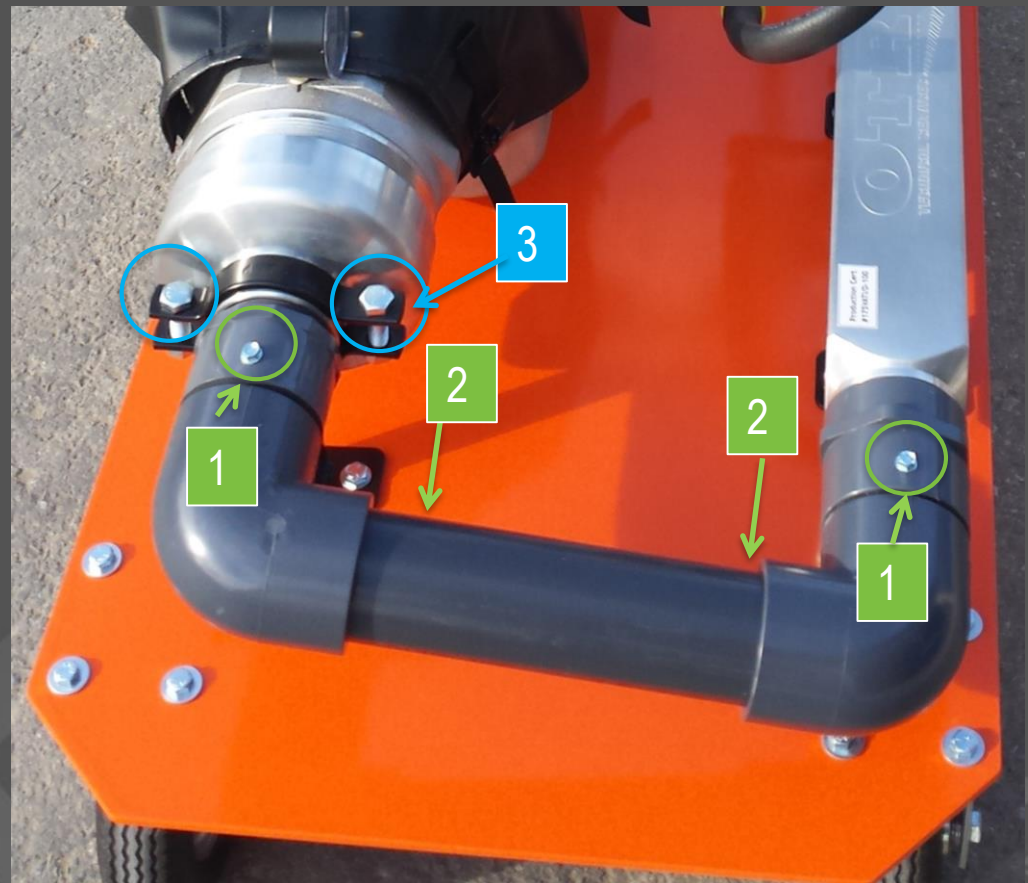
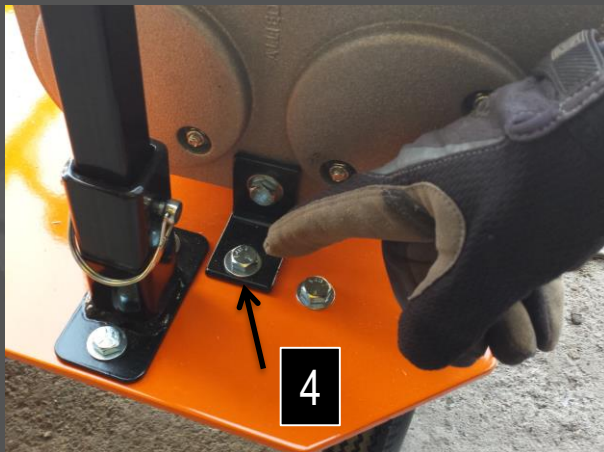
Muffler restriction gauge during operation should not exceed 1.0 psi. Any reading over 1.5 psi indicates that the muffler elements should be replaced.



Maintenance

(Changing muffler elements)

- 1- Remove these two self-tapping screws
- 2- With rubber hammer tap (direction of arrows) to remove the one piece pipe & elbows.
- 3- Loosen the two bolts holding the clamp and remove top clamp.
- 4 - Remove the bolt from the bracket that attaches the muffler to the cart and remove the muffler.



Use only a “rubber” hammer to remove this PVC section. Alternate from one side to the other.

Caution: using a metal hammer will damage or break the PVC piping.



Remove the eight nuts, replace elements and reinstall



Replacement Parts

(Diagram on next page)

Part Number	Part Description
OTR- TDH	Deflation Hose with IN-95
89BKH-20	20' pressure sensing hose
IN-95	Inflator Adapter
H-4660A	Large Bore clip on air chuck
631008AL02B160#	0-160PSI Liquid filled gauge (Qty 2)
251490A02BXUC3#	0-3PSI filter pressure gauge
DM408B-4I	Trailer Wheel and Tire
0911060	Filters (Qty 4)
PME-201-RG	Low tire pressure indicating light
MAM-B070C	Base for light
SLA-12V10-F2	Battery

Replacement Parts Diagram



For assistance, please contact
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