PIG® Oil Filter Crusher Manual

Model Number: DRM584 - Oil Filter/Paint Can Crusher



DRM584 - Oil Filter/Paint Can Crusher



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PIG® Oil Filter/Paint Can Crusher

Disposing of used oil filters and paint cans can be time consuming and costly for some industries. Until recently, they were disposed of by landfilling in their uncrushed form; however, some states have banned this practice.

In 1996, New Pig developed the PIG® Oil Filter/ Paint Can Crusher to help minimize these wastes. This air-operated unit is designed to crush oil filters up to 16" in height (reducing them to 1/3 or even 1/4 of their original size) and the chamber can also accommodate two 1-gallon paint cans simultaneously.

The unit comes equipped with a drain tray, which can be used to drain punctured filters and cans prior to crushing. Drain ports under the tray have been installed to allow for draining into 55-gallon drums or other collection containers.

There are several advantages to using the PIG® Oil Filter/Paint Can Crusher:

- ** The crushing chamber is adjustable to reduce cycle time.
- ** For safety, the Crusher features an interlock lever that prevents the unit from operating when the chamber door is unlocked.
- ** Crushing filters and cans means more of them will fit into a single drum for disposal. This helps reduce overall disposal costs.
- ** Liquids that are drained and collected may be recycled.
- ** Using the Crusher is one means of meeting the EPA's requirement, for hot-draining used oil filters.

Section I - PIG® Oil Filter/Paint Can Crusher

1 Setup Instructions

- 1) Remove PIG® Oil Filter Crusher from pallet and place on floor.
- 2) If desired, permanently mount the crusher to the floor using the pre-drilled holes in the base. Up to 1/2" floor anchors can be used. Floor anchoring not required for operation (anchors not included).
- 3) Loosen the vent screw located on top of the hydraulic air pump with a phillips screwdriver and pull up vent/fill tube to first notch for proper venting.
- 4) Remove the pipe plug from the air intake pipe located on the back of the unit.
- 5) Thread the 3/8" x 1/4" Hex Bushing and 1/4" pipe nipple into the air intake and then thread the provided air filter and lubricator onto the pipe nipple.
- 6) Thread a 1/4" male air chuck into the filter.

Always wear the proper safety equipment when operating this unit.

1) Open door and center filter on base.



2) Close door and activate* by pushing in the start/stop knob.



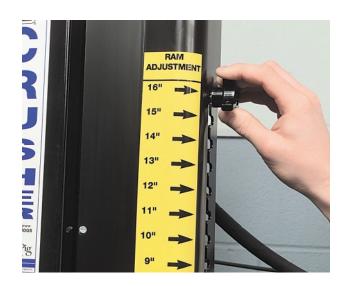
3) Unit will cycle itself and return to the up position (to stop unit during cycle, pull start/stop knob.)



^{*}Note: Unit will not operate if door handle is not in the locked position.

Adjusting the ram opening to shorten cycle time for smaller filters

1) Loosen knob on the stop rod and position the knob over to the travel slot.



2) With the crusher chamber empty, start machine and guide the knob along the travel guide until it reaches the desired opening height.



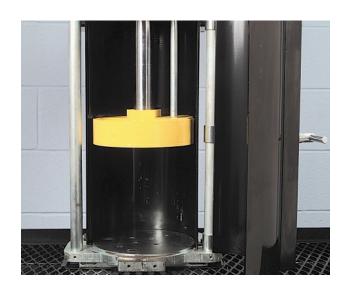
3) Open door and ram will stop.



4) Position the knob back into slot and tighten.



5) Pull start/stop knob and the ram will reset to new opening height.



Note: Minimum 80 PSI of air required for operation.

Item# DRM584 · PIG® Oil Filter/Paint Can Crusher

DESCRIPTION- An air operated heavy duty hydraulic press used to crush oil filters or paint cans as a waste reduction process.

Packaging: Each
Color: Black
Weight: 479 lbs.

Per Pallet: 1

Dimensions:

Overall - 34" Deep x 40" W x 84" H Crushing Chamber - 16 1/2" H x 7 3/4" Diameter

Composition: Hot Rolled Steel

16" Cycle Time: 1 minute 40 seconds at 120 psi air pressure

4" Cycle Time: 25 seconds

Maximum Filter Ht.: 16"

Maximum Width: 7 1/2"

Downforce Pressure: 19,000 lbs.

Minimum Air Require.: 80 ps

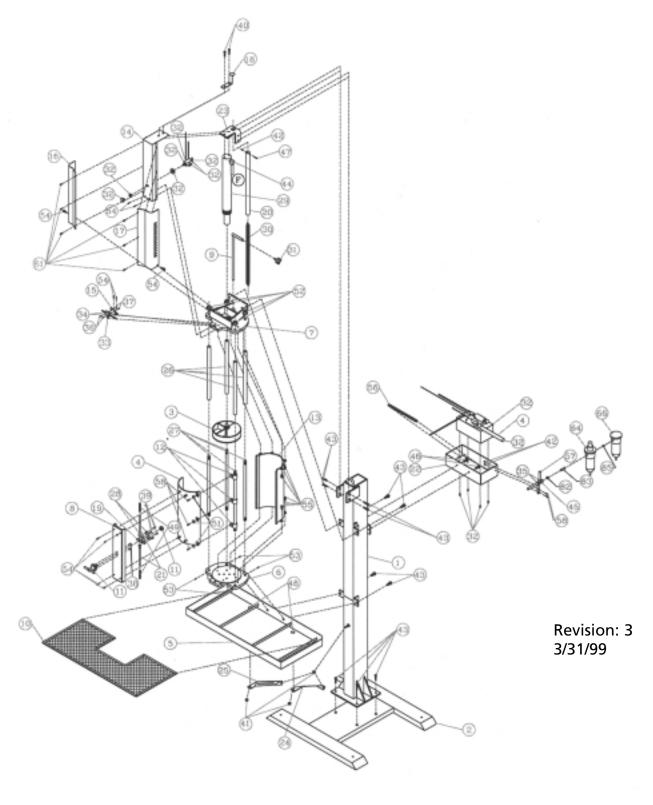
FEATURES/BENEFITS

- 19,000 lbs. downforce pressure / Will easily crush oil filters up to 16" H with steel centers.
- Hydraulic pump / Stays at maximum downforce pressure at any air pressure over 80 psi.
- 16" H crushing chamber. / Will crush any oil filter 16" or smaller plus up to two 1-gallon paint cans.
- Adjustable in 1" increments. / Allows cycle time to be reduced when the full 16" isn't needed. Crushes in as little as 25 seconds.
- Automatic cycle / Once started unit completes cycle unattended.
- Draining tray on each side of crushing chamber. / Allows user to drain filters before and after crushing.
- Drain plugs in tray / Liquids drain directly into a 55 gallon drum.
- Custom option available / Unit can be customed to crush any oil filter up to 18"H.

APPLICATIONS

• Crushing oil filters up to 16" H and 1-gallon paint cans.

Oil Filter /Paint Can Crusher - DRM584



OIL FILTER CRUSHER (ITEM # DRM584)

Assy#	Pcs.	Part#	Description	
1	1	600078A	Main Frame Assembly	
2	1	600078B	Base Plate Assembly	
3	1	600078C	Dome Assembly	
4	1	600078D	Door Assembly	
5	1	600078E	Drain Tank Assembly	
6	1	600078F	Bottom Plate Assembly	
7	1	600078G	Top Plate Assembly	
8	1	600078H	Latch Plate Cover Assembly	
9	1	6000781	Slide Handle Assembly	
10	1	600078J	Drain Screen Assembly	
11	1	600078K	Tee Handle Assembly, with mounting nut	
12	3	600078L	Tube Hinge Assembly	
13	1	600078M	Cylinder Chamber Assembly	
14	1	600078-27	Front Cover	
15	1	600078-29	Micro-Switch Mounting Bracket	
16	1	600078-30	Left Hand Cylinder Cover	
17	1	600078-31	Right Hand Cylinder Cover	
18	1	600078-32	Spring Dust Cover	
19	1	600078-33	Latch Tumbler	
20	1	600078-34	Spring Guide Tube	
21	2	600078-35	Handle Linkage	
22	1	600078-44	Pump Mounting Pan	
23	1	600078-45	Cylinder Mounting Bracket	
24	1	600078-46	Right Hand Tank Bracket	
25	1	600078-47	Left Hand Tank Bracket	
26	4	600078-57	Spacer Tube	
27	4	600078-58	3/4" Threaded Rod	
28	2	600078-64	Door Linkage	
29	1	P1068	Hydraulic Cylinder	
30	1	P1060	Ram Spring	
31	1	P1061	Plastic Knob	
32	1	P1069	Pump, Hose, Hardware and Switch	
33	1	214C	ARO Air Valve	
34	2	1169x4S	Male Swivel Elbow	
35	1	1168x4x6	Male Connector	
36	2	F1032	Slotted Machine Screw	
37	2	F1031	Hex Nut with Washer	

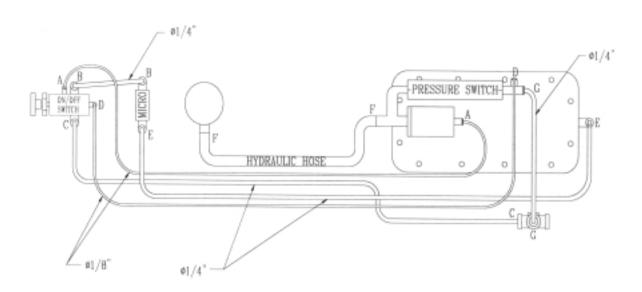
ELECTRIC COMPACTOR(S) PARTS LIST

38 2 F1048 10-32 x 3/8" Button Head Screw 39 4 F1204 Shoulder Screw 40 2 F1425 3/8"-16 x 1" Flange Bolt 41 3 F1421 3/8"-16 k x 1" Flange Nut 42 3 F1152 1/4"-20 Lock Nut 43 12 F1562 1/2"-13 x 1 1/4" Hex Head Flange Bolt 44 1 P1063 9681 Street Elbow 45 1 150140A Air Fitting Assembly 46 2 F1471 3/8"-16 x 3/4" Whiz Bolt 47 1 F1215 1/4"-20 UNC x 1 1/2" Hex Head Cap Screw 48 2 F1550 1/2" I.P. Plug 49 2 P1119 3.0" Long Spring 50 As Reqd. P1120 Steel Shim 51 3 F1925 1/4" I.D. 0.050" Thick Flat Washer 52 4 F1656 3/4" Nylon Hex Lock Nut 53 4 F1161 1/4"-20 UNC x 5/16" Socket Head Screw 54 10 F1185 <th>Assy#</th> <th>Pcs.</th> <th>Part#</th> <th>Description</th>	Assy#	Pcs.	Part#	Description
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63 1 P1130 1/4" x 3" Brass Pipe Nipple 64 1 P1177 Lubricator 65 1 P1178 1/4" Hex Nipple	61	6	F1023	#6 x 1/2" Hex Head Self Tapping Screw
64 1 P1177 Lubricator 65 1 P1178 1/4" Hex Nipple	62	1	P1179	3/8" x 1/4" Hex Bushing
65 1 P1178 1/4" Hex Nipple	63	1	P1130	1/4" x 3" Brass Pipe Nipple
	64	1	P1177	Lubricator
66 1 P1176 Filter	65	1	P1178	1/4" Hex Nipple
	66	1	P1176	Filter

Section II-General Information - DRM584

1 Air Schematic

AIR SCHEMATIC



CONNECTION	PART#
A-A	P1065
B-B	N11-417B
C-C	N11-417B
D-D	P1065
E-E	N11-417B
F-F	-
G-G	N11-417B

2 Preventative Maintenance

- 1) Clean bowl filter and make sure oil bowl is filled. **Caution:** Do not over oil 1 to 2 drops a cycle.
- 2) Check hydraulic oil level. Should approximately be 1" from top of filler hole. Use a general purpose medium weight hydraulic fluid. New Pig Item# DRM673
- 3) Keep crush chamber free of debris.
- 4) Check for loose nuts, bolts and pins.
- 5) Clean drain holes in the bottom of the crush chamber regularly.
- 6) Check to make sure ram plate has not loosen from the cylinder.

To remove or tighten ram plate run unit empty. Let pressure build. Just before building enough pressure to recycle, pull stop button. This locks the cylinder and allows the ram plate to be tightened or removed.

Note: When removing or tightening ram plate return spring will need to be disengaged on DRM584. This can be done with the ram in to full returned position by removing the spring retaining bolt in the tube at the top of the unit. Needle nose pliers will be required to pull spring back up the tube to allow the retaining bolt to be inserted. This must be done with the ram in the full up position.

Hydraulic pump runs, but ram will not move.

- Low air pressure Air pressure should be between 80 psi and 120 psi.
- Hydraulic fluid is low Use a medium weight hydraulic fluid and fill to within 1" of the top of filler hole with the ram in the up position.
- Water and dirt in the air supply Drain water and clean filter bowl. Make sure oiler is full and working.
- Vent tube on the hydraulic pump is closed Open tube.
- Ram will not return to up position Check for wedged material between ram plate and crush chamber wall.

Hydraulic pump will not run.

- Check air supply Air pressure to unit should be between 80 psi and 120 psi.
- Water and dirt in the air supply Drain water and clean filter bowl. Add a small amount of air tool oil or light weight machine oil to the air line.
- Door handle must be in the locked position.
- Door lock pins are not aligning with holes or door is dragging DRM584 Adjust the four allen bolts on the front of the latch cover and/or adjust the 3 hinge alignment bolt located to the right of the door.
- Safety micro on door is out of alignment or not fully engaged Adjust micro so it is fully engaged when door is in the closed position. DRM584 Located behind the front cover.
- \bullet Check on/off knob located in front of crusher. Knob should be pulled out fully to operate. Depressing knob will stop crusher. Overall Dimensions 67 1/8" H x 31 1/2" W x 38" D

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