

Mi-T-M[®] CORPORATION

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PARTS LIST FOR JCW-2003-0MHB/0MVB

HONDA ENGINE OIL GRADE: HONDA ENGINE OIL CAPACITY: VANGUARD ENGINE OIL GRADE:

VANGUARD ENGINE OIL CAPACITY: PUMP OIL GRADE: PUMP OIL CAPACITY: PRESSURE NOZZLE: SAE 10W/30 20 oz. Above 40°F=SAE30 Below 40°F=SAE10W-30 24 oz. Mi-T-M #AW-4085-0016 14 oz. 4.0 This Parts Listing has been compiled for your benefit. You can be assured your Mi-T-M pressure washer was constructed and designed with quality and performance in mind using over 25 years experience in the pressure washer business. Each component has been rigorously tested to insure the highest level of acceptance.

The contents of this Parts Listing are based on the latest product information available at the time of publication. Mi-T-M reserves the right to make changes in price, color, materials, equipment, specifications or models at any time without notice.

WARNING

THIS IS A PROFESSIONAL HIGH PRESSURE, PRESSURE WASHER. CAUTION SHOULD BE OBSERVED WHEN USING OR REPAIRING THIS UNIT! READ AND FOLLOW THE SAFETY WARNINGS LISTED BELOW BEFORE ATTEMPTING ANY REPAIRS ON THIS PRESSURE WASHER!

- SAFETY WARNINGS NEVER alter or modify the equipment. Be sure any accessory items and system components being used will withstand the pressure developed. Use only genuine Mi-T-M parts for repair of your pressure washer. Failure to do so can cause hazardous operating conditions and will VOID warranty. 1.
- 2. NEVER make adjustments on machinery while the unit is connected to the engine without first removing the ignition cables from the spark plugs. Turning over the machinery by hand during adjustment or cleaning might start the engine and machinery with it, causing serious injury to the operator.
- Know how to stop and bleed pressures guickly. Be thoroughly familiar with controls. 3.
- Before servicing the unit, turn unit off, relieve the water pressure and allow the unit to cool down. Do not make repairs while the unit is running. Service in a clean, dry, flat area. Block the wheels to prevent the unit from moving. Be especially careful to properly dispose of any flammable 4. materials.
- 5. After testing the machine, DO NOT leave the pressurized unit unattended. Shut off the unit and release trapped pressure before leaving.

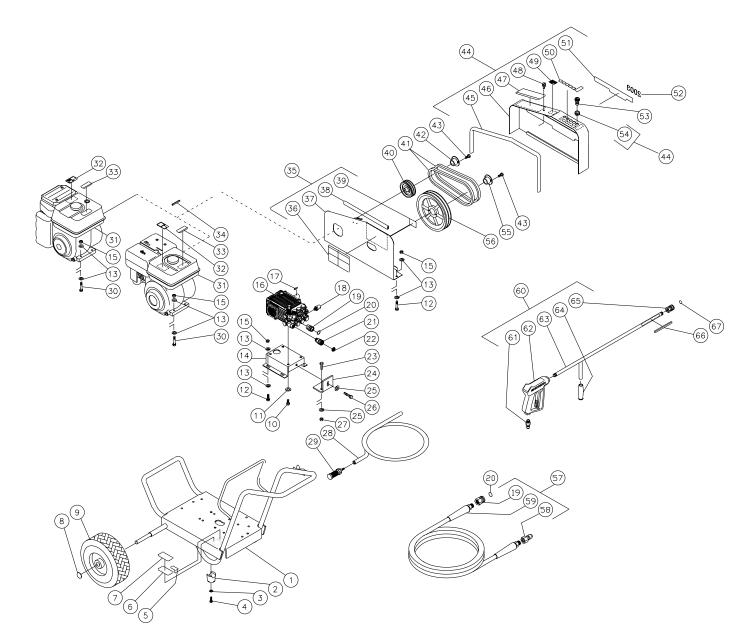
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SPECIFICATIONS

JCW-2003-0MHB/0MVB

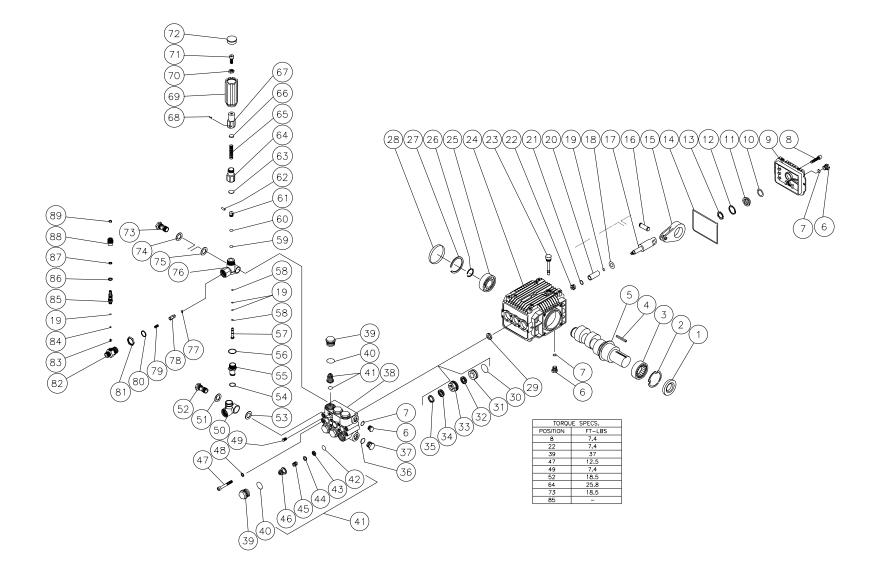
MODEL NUMBER	JCW-2003-0MHB	JCW-2003-0MVB		
Operating Pressure (PSI/Bar):		2000/138		
High Pressure Nozzle:		4.0		
Water Volume (GPM/lpm):		2.8/10.6		
Engine:	Honda	B & S Vanguard		
Horsepower	5.5	6.0		
Engine Type	4 Stroke, Ove	rhead Valve, Single Cylinder		
Oil Type	SAE 10W 30	Above 40 F=SAE30/Below 40 F=SAE 10W 30		
Oil Capacity (oz./liters)	20/.6	24/.7		
Low Oil Protection	Oil Alert	Oil Guard		
Fuel Type	Unleaded Ga	asoline 86 Octane Minimum		
Fuel Capacity (gallon/ liters)	.95/3.6	1.05/3.99		
Starting	Recoil			
Maximum No Load RPM	36	00 (+/- 100) RPM		
Pump:	Belt Driver	n, Oil Bath, Triplex Piston		
Oil Type	Mi-T-M Pu	ump Oil #AW-4085-0016		
Oil Capacity (oz./liters)		14/.41		
Plungers		Ceramic		
Manifold		Forged Brass		
Valves		Stainless Steel		
Unloader		Adjustable		
Heat Dump Valve	Relieves heated wa	ater during unloader bypass stage		
Detergent Injector	Adjustable low pressure down stream from pump			
Unit Net Weight (Lbs/kg)	115/52	115/52		
Unit Shipping Weight (Lbs/kg)	157/71	157/71		
Unit Net Dimension (In/cm)	38L x 21W x 20.5H/93L x 53W x 52H			
Unit Shipping Dimension (In/cm)	39.5L x 25.5W x 32.5H/100L x 65W x 83H			



PDJCW004-020899-RD

	FRAME ASSEMBLY											
REF #	DESCRIPTION	PART #	QTY	F	REF #	DESCRIPTION	PART #	QTY	REF #	DESCRIPTION	PART #	QTY
1	Frame Assembly	5-0132A01	1		26	Bolt	27-0576	1	49	Decal-American Flag	34-0521	1
2	Isolator	14-0066	2		27	Locknut	30-0159	2	50	Decal-Nozzles Die Cut	34-0500	1
3	Washer	28-0021	2		28	Detergent Hose *(Four Feet Required)	15-0021	1	51	Decal-Beltguard	34-0777	1
4	Screw	27-3096	2		29	Detergent Strainer	19-0050	1	52	Decal-White Die Cut	34-0551	1
5	Cold Water Serial Number	N/A	1		30	Bolt	27-0070	4	53	Nozzle: 0004	18-0028	1
6	Silver Sticker	N/A	1		31	Engine- Honda 5.5 HP	1-0013	1	-	Nozzle: 1504	18-0029	1
7	Clear Laminate	N/A	1		-	Engine- Vanguard 6.0 HP	1-0069	1	-	Nozzle: 2504	18-0030	1
8	Hubcap	33-0018	2		32	Decal-Warning: Muffler Hot (E/S)	34-0598	1	-	Nozzle: 4004	18-0031	1
9	Wheel	14-0017	2		33	Decal-Caution: Allow to Cool (E/S)	34-0599	1	-	Nozzle: 6540	18-0148	1
10	Bolt	27-8884	4		34	Key	43-0078	1	54	Grommet	33-0001	5
11	Washer	29-0054	4		35	Beltguard Back Assembly (Inc.36-39)	851-0312	1	55	Bushing-Pump	9-0017	1
12	Bolt	27-0067	7		36	Decal-Warning/Caution (E/S)	34-0812	1	56	Sheave-Pump	10-0035	1
13	Washer	28-0003	18		37	Beltguard Back	N/A	1	57	High Pressure Hose Assembly (Inc.19, 58, 59)	851-0007	1
14	Pump Bracket	5-0133A01	1		38	Edging *(Two Feet Required)	33-0020	1	58	Quick Connect Plug	17-0006	1
15	Locknut	30-0157	11		39	Decal-Warning: Beltguard in Place (E/S)	34-0826	1	59	High Pressure Hose	15-0003	1
16	Pump (See Exploded Drawing)	3-0170	1		40	Sheave-Engine	10-0029	1	60	Gun Assembly (Inc. 61-65)	851-0095	1
17	Key	46-0601	1		41	Belt-Honda	11-0023	2	61	Quick Connect Plug	17-0005	1
18	Heat Dump Valve	22-0005	1		-	Belt-Vanguard	11-0020	2	62	Gun (See Exploded Drawing)	16-0001	1
19	Quick Connect Socket	17-0004	2	1 [42	Bushing- Engine	9-0009	1	63	Wand	16-0120A01	1
20	O-ring	25-0123	2		43	Bolt	27-0015	4	64	Grip	7-0002	1
21	Garden Hose Swivel	23-0095	1] [44	Beltguard Cover Assembly (Inc. 45-51, 54)	851-0313	1	65	Quick Connect Socket	17-0001	1
22	Garden Hose Filter	19-0001	1] [45	Edging *(Three Feet Required)	33-0020	1	66	Decal-Warning: Risk of Injection	34-0572	1
23	Bolt	27-0118	2		46	Beltguard Cover	N/A	1	67	O-ring	25-0122	1
24	Brace Tightener Bracket- Black	13-0005A01	1		47	Decal-Operating Instructions (E/S)	34-0813	1				
25	Washer	28-0023	3	1 Г	48	Fastener	33-0197	1		*Must Order in One Foot Lengths.		

PUMP ASSEMBLY (3-0170)



3-0170-011999-RD

REF. #	DESCRIPTION	PART #	QTY.
1	Oil Seal	26-0192	1
2	Retaining Ring	46-0667	1
3	Bearing	48-0059	1
4	Кеу	43-0091	1
5	Crankshaft	46-0754	1
6	Plug	39-0086	3
7	O-ring	25-0325	3
8	Bolt	27-8888	6
9	Crankcase Cover	46-0719	1
10	O-ring	25-0370	1
11	Oil Sight Glass	46-0670	1
12	Reflector	46-0824	1
13	Retainer	46-0671	1
14	O-ring	25-0398	1
15	Connecting Rod	46-0720	3
16	Piston Pin	46-0721	3
17	Plunger Rod	46-0722	3
18	Washer	28-1022	3
19	O-ring (See 8-0456)	25-0371	6
20	Piston	46-0723	3
21	Washer	26-0187	3
22	Nut	30-6016	3
23	Oil Dipstick	39-0090	1
24	Crankcase	46-0724	1
25	Bearing	48-0063	1
26	Retaining Ring	46-0732	1
27	Retaining Ring	46-0676	1
28	Bearing Cap	46-0725	1
29	Oil Seal	26-0193	3
30	O-ring (See 70-0181)	25-0399	3
31	Retainer	46-0726	3
32	Low Pressure Seal (See 70-0181)	N/A Sep.	3

	PUMP ASSEMBLY (3-0170)		
REF. #	DESCRIPTION	PART #	QTY.
33	Packing Retainer	46-0728	3
34	V-packing (See 70-0181)	N/A Sep.	3
35	Support Ring (See 70-0182)	N/A Sep.	3
36	O-ring	25-0372	1
37	Plug	39-0088	1
38	Manifold	46-0730	1
39	Valve Cap	39-0087	6
40	O-ring	25-0160	6
41	Single Valve Assembly (Inc. 42-46) (See 70-0161)	N/A Sep.	6
42	O-ring	25-0386	6
43	Valve Seat (See 70-0161)	N/A Sep.	6
44	Valve Plate (See 70-0161)	N/A Sep.	6
45	Valve Spring (See 70-0161)	N/A Sep.	6
46	Valve Cage (See 70-0161)	N/A Sep.	6
47	Bolt	27-8875	8
48	Lockwasher	29-0153	8
49	Plug	39-0097	1
50	Inlet Bypass Adaptor	8-0437	1
51	Washer	8-0440	1
52	Adaptor	8-0438	1
53	Washer	8-0439	1
54	O-ring (See 8-0456)	N/A Sep.	1
55	Nipple	8-0441	1
56	O-ring (See 8-0456)	N/A Sep.	1
57	Piston	8-0442	1
58	Back-up Ring (See 8-0456)	N/A Sep.	2
59	O-ring (See 8-0456)	N/A Sep.	1
60	Back-up Ring (See 8-0456)	N/A Sep.	1
61	Poppet	8-0443	1
62	Pin	8-0444	1
63	Spring Button	8-0445	1
64	Guide Spring	8-0474	1

REF. #	DESCRIPTION	PART #	QTY.
65	Spring	49-0132	1
66	Spring Button	8-0475	1
67	Adjustment Barrel	8-0476	1
68	Pin	8-0477	1
69	Unloader Knob	7-0141	1
70	Nut	30-3025	1
71	Bolt	27-8433	1
72	Сар	7-0142	1
73	Adaptor	8-0448	1
74	Washer	8-0449	1
75	Washer	8-0450	1
76	Unloader Body	8-0451	1
77	O-ring	25-0437	1
78	Check Valve	8-0454	1
79	Spring	49-0123	1
80	O-ring	25-0372	1
81	Tightener Nut	8-0497	1
82	Injector Adapter	8-0498	1
83	Detergent Injector Spring	N/A Sep.	1
84	Ball	N/A Sep.	1
85	Barb	8-0499	1
86	O-ring	N/A Sep.	1
87	O-ring	N/A Sep.	1
88	Knob	7-0152	1
89	Snap Ring	N/A Sep.	1
	High Pressure Seals (Inc. 3 each 30, 32, 34)	70-0181	
	Support Rings (Inc. 3 each 35)	70-0182	
	Valves (Inc. 6 each 42-46)	70-0161	
	Unloader (Inc. 19, 50-79)	8-0456	
	Unloader Repair (Inc. 19, 54, 56, 58-60, 77)	70-0180	
	Injector (Inc. 19, 80-89)	70-0232	
	Injector Repair (Inc. 19, 80, 83-84, 86-87, 89)	70-0233	

PUMP SERVICE GUIDE

USE THE PARTS LIST ON THE PREVIOUS PAGE TO REORDER PARTS NEEDED TO SERVICE YOUR PUMP.

REPLACING THE VALVE ASSEMBLY:

- 1. In order to maintain optimum pump performance, replace all the valves at one time. The valve assemblies can be replaced without disrupting plumbing.
- 2. Remove the valve cap from the manifold.
- 3. Inspect the o-ring on the valve cap for deterioration. Replace if necessary.
- 4. Remove the valve assembly from the valve cavity.
- 5. Remove the o-ring inside the bottom of the valve cavity. Check for signs of severe deterioration of the o-ring. This could reflect excessive wear in the valve cavity of the manifold which is a *normal* occurrence in pumps with an extended life (over 1000 hours). Check the manifold and replace if necessary. (Note: *Normal* wear in the manifold is not covered under warranty.)
- 6. Install the new o-ring into the bottom of the valve cavity, then place the new valve assembly into the valve cavity.
- 7. Reinstall the valve cap and torque to specifications listed on the pump drawing in your parts list.

REMOVING THE MANIFOLD:

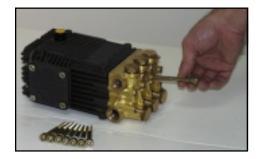
1. Remove the head bolts on the manifold.

RISK OF DAMAGE

USE CAUTION NOT TO DAMAGE THE PLUNGERS WHEN REMOVING THE MANIFOLD HEAD FROM THE CRANKCASE .

- 2. Pull the manifold head from the crankcase. Rotate the crankshaft or tap the manifold head lightly with a rubber mallet to loosen if necessary.
- *NOTE:* The V-packing assemblies may come off with the manifold head. If this happens, reinsert the V-packings in the order given in the "V-Packing Cross Section" illustration shown on the following page.



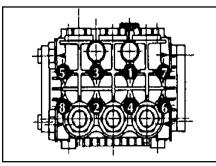




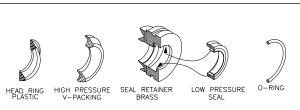








V-PACKING CROSS SECTION



REPLACING V-PACKINGS:

- 1. In order to maintain optimum pump performance, replace all the V-Packings at one time. The manifold must be removed from the crankcase before performing this procedure. Use of an extractor is highly recommended for V-packing removal.
- 2. Insert the extractor through the center of the V-packing and pull the V-Packing from the manifold.
- 3. Install the V-Packings in the order shown in the drawing at left.
- NOTE: A film of grease on the o-rings ensure easier installation.
- 4. Move on to replace plungers if necessary. If plungers do not need replacing, reinstall the manifold head as described in "Reinstalling the Manifold".

REPLACING PLUNGERS:

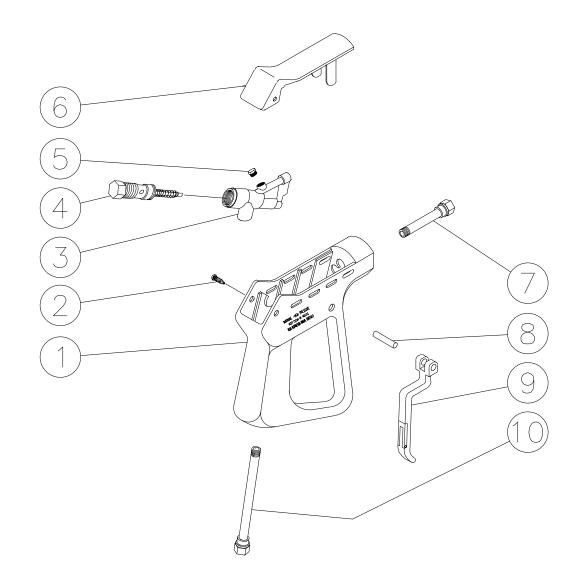
- 1. Remove piston nut and washer from the piston rod.
- 2. Examine the plungers for cracks and wear. Replace if necessary.
- 3. Remove the plunger. If the slinger washer comes off with the plunger, replace it before installing the new plunger.
- 4. Install the replacement parts over the piston guide in the order given: -Anti-extrusion ring, O-ring, Plunger, Washer.
- NOTE: A film of grease on the o-ring ensures easier installation.
- 5. Apply thread sealant to the piston guide threads.
- 6. Install the piston nut and torque to the specifications listed on the pump drawing in your parts list.

REINSTALLING THE MANIFOLD:

- 1. Apply a coat of grease to each plunger and reinstall the manifold head, taking care not to damage the plungers.
- 2. Install and tighten the head bolts as shown in the sequence at left. Use your fingers first, then at half the torque specified for your pump. Perform a final torque to the specifications listed on the pump drawing in your parts list.

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GUN ASSEMBLY (16-0001)



	GUN ASSEMBLY (16-0001)		
REF. #	DESCRIPTION	PART #	QTY.
1	Plastic Housing	16-0008	1
2	Screw	27-3230	2
3	Brass Housing	16-0012	1
4	Gun Repair Kit	70-0055	1
5	Brass Plug	39-0024	1
6	Plastic Cover	16-0009	1
7	Pipe Assembly	16-0013	1
8	Trigger Pin	16-0063	1
9	Trigger/Safety Lock-off	16-0010	1
10	Pipe Assembly- Inlet	16-0016	1
	Complete Gun Assembly	16-0001	1

OMGEN013-080294-BAR