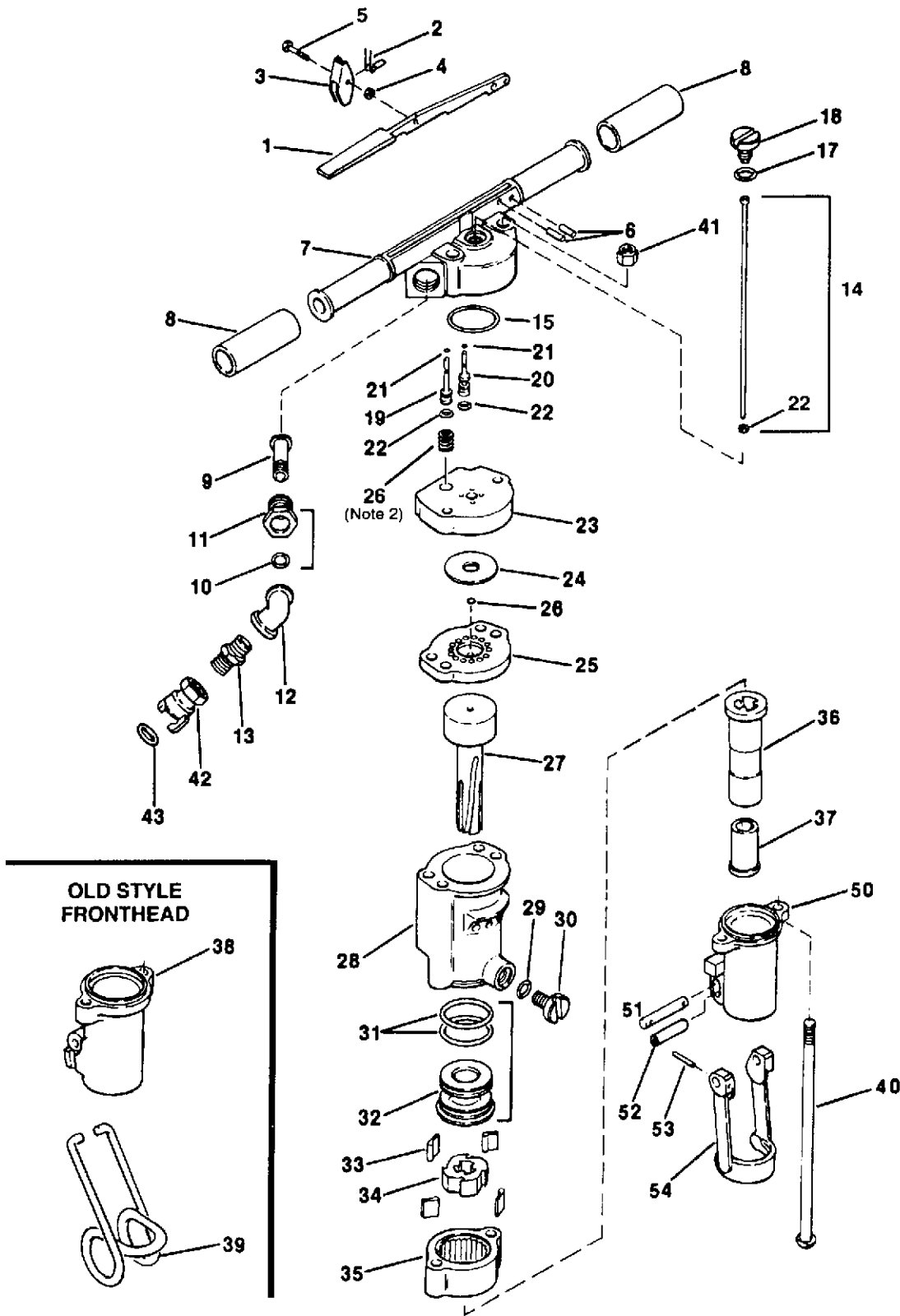


# MRD-30 ROCK DRILL ILLUSTRATION



For Parts Call Tools Renewed (800) 247-3639 Fax (860) 665-9821

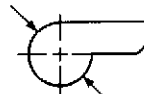
# PARTS LIST

INDEX NO.	PART NUMBER	QTY. REQ.	DESCRIPTION	INDEX NO.	PART NUMBER	QTY. REQ.	DESCRIPTION
1	68722059	1	Lever, Throttle	35	68721897	1	Ratchet
2	68722061	1	Spring, Throttle Latch	36	68721913	1	Sleeve, Rotation
3	68722060	1	Latch, Throttle Lock	37	68721914	1	Bushing, Chuck 7/8" Hex x 3 1/4" Shank
4	68VE8050	1	Nut, Throttle Lock		68721918	1	Bushing, Chuck 7/8" Hex x 4 1/4" Shank
5	68722062	1	Capscrew, Throttle Lock				Discontinued, Use Index nos. 50 thru 54
6	68723101	2	Pin	38	68721912	1	Retainer, Steel 3 1/4" Shank
7	68722603	1	Handle, Bare				Retainer, Steel 4 1/4" Shank
8	68722463	2	Grip, Rubber Handle	39	68721915	1	Bolt, Side Rod
9	68723018	1	Swivel, Air Inlet (6.2mm orifice—approximately 1/4")		68721917	1	Nut, Side Rod Bolt
10	68CJ0017	1	O—Ring, .834ID x .140W (70)	40	68721916	2	Fronthead, MRD—30 2/89
11	68721905	1	Nut, Swivel	41	68549512	2	Pin, Retainer Pivot
12	68524073	1	Elbow, Air Inlet	50	68722578	1	Bumper, Fronthead Rubber
13	68721789	1	Spud, Air Inlet	51	68722102	1	Pin, Retainer Pivot
14	68780225	1	Kit, Blow Tube and O—Ring	52	68722573	1	Retainer, Steel 3 1/4" Shank
15	68527162	1	O—Ring, 2ID x .10W (70)	53	68VV5645	1	Retainer, Steel 4 1/4" Shank
				54	68722007	1	
17	68CJ0014	1	O—Ring, .625ID x .093W (70)		68722006	1	
18	68721907	1	Gland, Blow Tube				
19	68721903	1	Valve, Throttle				
20	68721904	1	Valve, Blow				
21	68CJ0004	2	O—Ring, .193ID x 075W(70)				
22	68CJ0181	3	O—Ring, .315ID x .197W (85)				
23	68722604	1	Chest, Valve				
24	68721909	1	Valve, Disc	42	040383	1	Coupling, Universal Hose (Including Gasket)
25	68721894	1	Seat, Valve	43	250015—228	1	Gasket, Hose Coupling—Rubber
26	68723064	1	Spring (see Note 2)				
27	68721895	1	Piston				
28	68721901	1	Cylinder				
29	68CJ0012	1	O—Ring				
30	68721910	1	Plug, Oil Reservoir				
31	68524078	2	O—Ring				
32	68721898	1	Bushing, Front Washer				
33	68721911	4	Pawl, Rotation (8mm)—(see Note 1)				
	68722507	4	Pawl, Rotation (5mm)				
34	68722506	1	Carrier, Rotation Pawl (5mm) (see Note 1)				

**(ACCESSORIES)**

NOTE 1: Compare Rotation Pawl to the actual size drawings on the right and order accordingly.

If Rotation Pawl is 8 mm size (Part Number 68721911) and you also need to replace the pawl carrier, order Part Number 68722506 Pawl Carrier and (4) Part Number 68722507 Rotation Pawls.

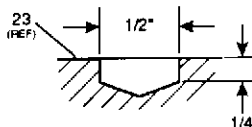


8 mm (Approx. 5/16")  
68721911



5 mm (Approx. 3/16")  
68722507

NOTE 2: The spring comes only on the valve chest with a hole.



## REPAIR TOOLS FOR MRD—30 ROCK DRILL

All components are **Metric** except external air inlet swivel **Threads** which are NPT. Only locally purchased metric wrenches are required for disassembly and assembly.

## ON – THE – JOB TROUBLE SHOOTING (M – SERIES ROCK DRILLS)

PROBLEM	PROBABLE CAUSE	REMEDY
Tool Runs Sluggish	Low Air Pressure at Tool	Increase Pressure to 90 – 100 PSI (6.2 to 6.9 bar)
	Insufficient Air Flow (CFM [bar])	Check Hoses, etc. for Leaks
	Automatic Valve Clogged	Flush Tool with Mixture of Oil and Diesel Fuel
	Insufficient Lubrication	Add a Small Amount of Light – Weight Non – Detergent Oil into Hose. Refill oil reservoir.
Tool Runs Erratically	Osha (Velocity Valve) Tripping	Inspect Valve for Proper Sizing
	Foreign Material in Tool Inlet	Remove Foreign Material
	Automatic Valve Sticking	Flush Tool With Mixture of Oil and Diesel Fuel. Reduce Amount of Oil/Moisture to Tool
Tool Will Not Run (Air Blows thru Exhaust)	Automatic Valve Stuck	Flush Tool with Mixture of Oil and Diesel Fuel
	Lack of Oil	Fill Oil Reservoir
Tool Continues to Run	Throttle Valve Stuck	Flush Tool with Mixture of Oil and Diesel Fuel
Excessive Kick – Back	Air Pressure Too High at Tool	Reduce Pressure to 90 – 100 PSI (6.2 to 6.9 bar)
	Dull Cutting Edge on Bit	Replace with Sharp Bit
Slow Penetration	Improper Down Pressure	Apply Sufficient Down Pressure
	Cuttings not Being Removed From Hole	Use Blow Air Frequently to Keep Hole Clean
	Clogged Blow Tube or Drill Stem	Cleared Blocked Passages
	Steel or Bit Binding in Hole	Keep Drill, Steel and Bit Aligned with Hole
	Dull Bit	Use Sharp Bit
	Insufficient Lubrication	Fill Oil Reservoir, Add a Small Amount of Light – Weight Oil into Hose
Stuck Steel	Cutting Not Being Blown From Hole	Use Blow Air Frequently to Keep Hole Clean
	Excessive Down – Pressure in Soft Ground	Drill at Part Throttle in Soft Ground
	Misalignment of Steel With Hole Causing Binding	Keep Steel and Drill Aligned with Hole

If suggested remedies fail to correct problem, disassembly and inspection must be performed to determine cause.