



American Pneumatic Tool

9949 Tabor Place, Santa Fe Springs, California, CA 90670, U.S.A.

ROCK DRILLS



For assistance in any sales, technical, maintenance or repair questions, please call APT @
Phone: (800) 532-7402 or (562) 204-1555 • Fax: (800) 715-6502 or (562) 204-1773

Website: www.apr-tools.com • e-mail: info@apr-tools.com

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ROCK DRILLS

TOOL MAINTENANCE & REPAIR INFORMATION

FIELD OPERATION:

Before use:

1. Fill the reservoir with air tool oil or 10W equivalent for 9 lb and 15 lb class. Use rock drill oil for the 38 lb and 60 lb class tools.
2. Check all nuts and bolts to ensure they are tight on the tool.
3. Make sure retainer locks into place.
4. Replace retainer and springs if worn.
5. Rotate the chuck bushings to ensure that pawls are engaging.
6. Clean any water and/or dirt from air hose before connecting it to the tool.

During use:

1. Make sure feet are placed squarely on the work surface.
2. For your safety, and that of others, keep constant pressure on the drill bit at all times.
3. When moving from one work area to another, shut off tool.
4. To start drilling the hole, start off with a slower speed.
5. If the drill bit becomes stuck, or bound, shut off tool immediately.
6. Refill oil reservoir approximately every 2 hours.

After use:

1. Flush tool with cleaning solvent, then refill with air tool oil or 10W equivalent.
2. Do not leave tool in water or dirt.
3. Check all nuts to ensure they are tight on the tool.
4. Store the tool well oiled.

TROUBLESHOOTING GUIDE:

If you experience loss of power in the tool:

1. Check side rod nuts to ensure they are tight on the tool.
2. Flush cleaning solvent through the tool and then refill immediately with air tool oil or 10W equivalent.
3. Disassemble and inspect ratchet pawls. If pawls show wear on the corners, they should be replaced.
4. While the tool is disassembled, check the cleanliness of the valve and ensure cylinder ports are clear.

If the tool is blowing air and will not function:

1. Disassemble, check for broken piston or rifle bar, check the rifle nut condition.
2. Check valve system for worn parts, replace if necessary.

If you cannot shut off the tool:

1. Immediately turn off the air source, then disconnect the air supply.
2. Disassemble back head and inspect the throttle valve, replace throttle valve if worn.

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MODEL 109 ROCK DRILL

PART # 17643



Weighing only 9 lbs, the APT Model 109 Rock Drill & Utility Drill is the lightest tool American Pneumatic makes. It is the ideal tool for drilling holes for anchor bolts as well as for small dowel hole drilling. The stop rotation feature easily converts the tool from a drilling machine to a percussion only tool.

SPECIFICATIONS

Part #	17643
Chuck Size	3/4" Round x 3-3/4"
Bore Diameter (inches)	1-1/4"
Stroke (inches)	1"
Blows per Minute	3400
CFM @ 90 psi	19 - 21
Weight (lbs)	9
Length (inches)	15"
Air Inlet Size	3/8" NPT Female

FEATURES

- Right-hand rotation
- Lightweight, aluminum cast, D-style handle
- Inside trigger for better control and safety
- Deep case hardened alloy steel cylinder
- Rubber dust excluder helps protect internal parts from dust and debris
- Ball type retainer allows for quick change-out of drill bits

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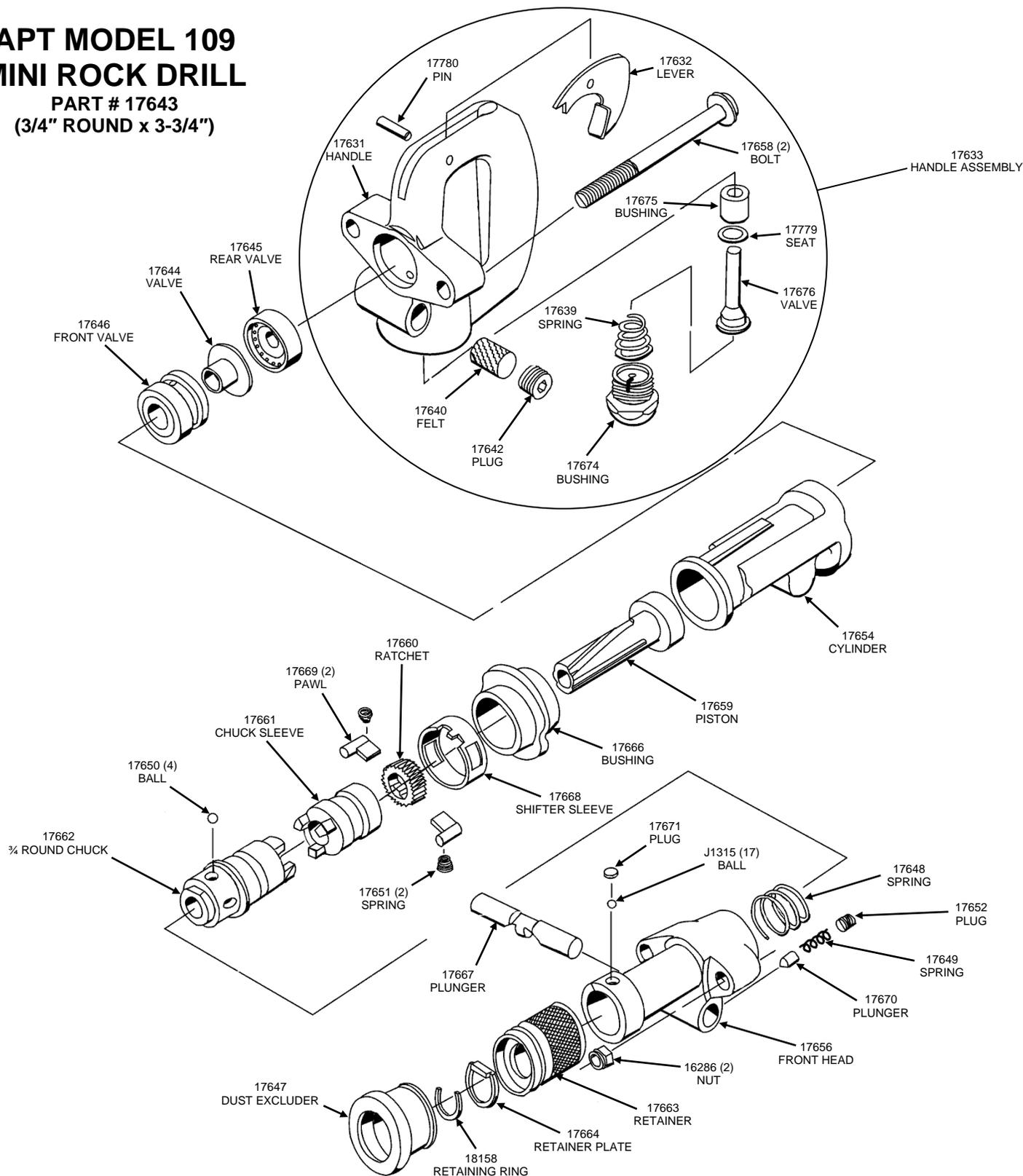


American Pneumatic Tool

9949 Tabor Place, Santa Fe Springs, California, CA 90670, U.S.A.

APT MODEL 109 MINI ROCK DRILL

PART # 17643
(3/4" ROUND x 3-3/4")



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9949 Tabor Place, Santa Fe Springs, California, CA 90670, U.S.A.

MODEL 115 ROCK DRILL

PART # 5197 (7/8" HEX x 3-1/4")



The APT Model 115 Rock Drill works as a drilling tool for drilling holes for anchor bolts and small dowel hole drilling. This versatile tool has a stop rotation feature that converts it from a drilling tool to a percussion tool. It is an ideal tool for light chipping in horizontal and overhead work.

SPECIFICATIONS

Part #	5197
Chuck Size	7/8" Hex x 3-1/4"
Bore Diameter (inches)	1-15/16"
Stroke (inches)	1-3/8"
Blows per Minute	2900
CFM @ 90 psi	32 - 36
Weight (lbs)	19
Length (inches)	18-3/8"
Air Inlet Size	3/8" MALE NPT

FEATURES

- Stop-rotation feature
- Built-in automatic oiler
- Latch type retainer
- Lightweight aluminum cast handle

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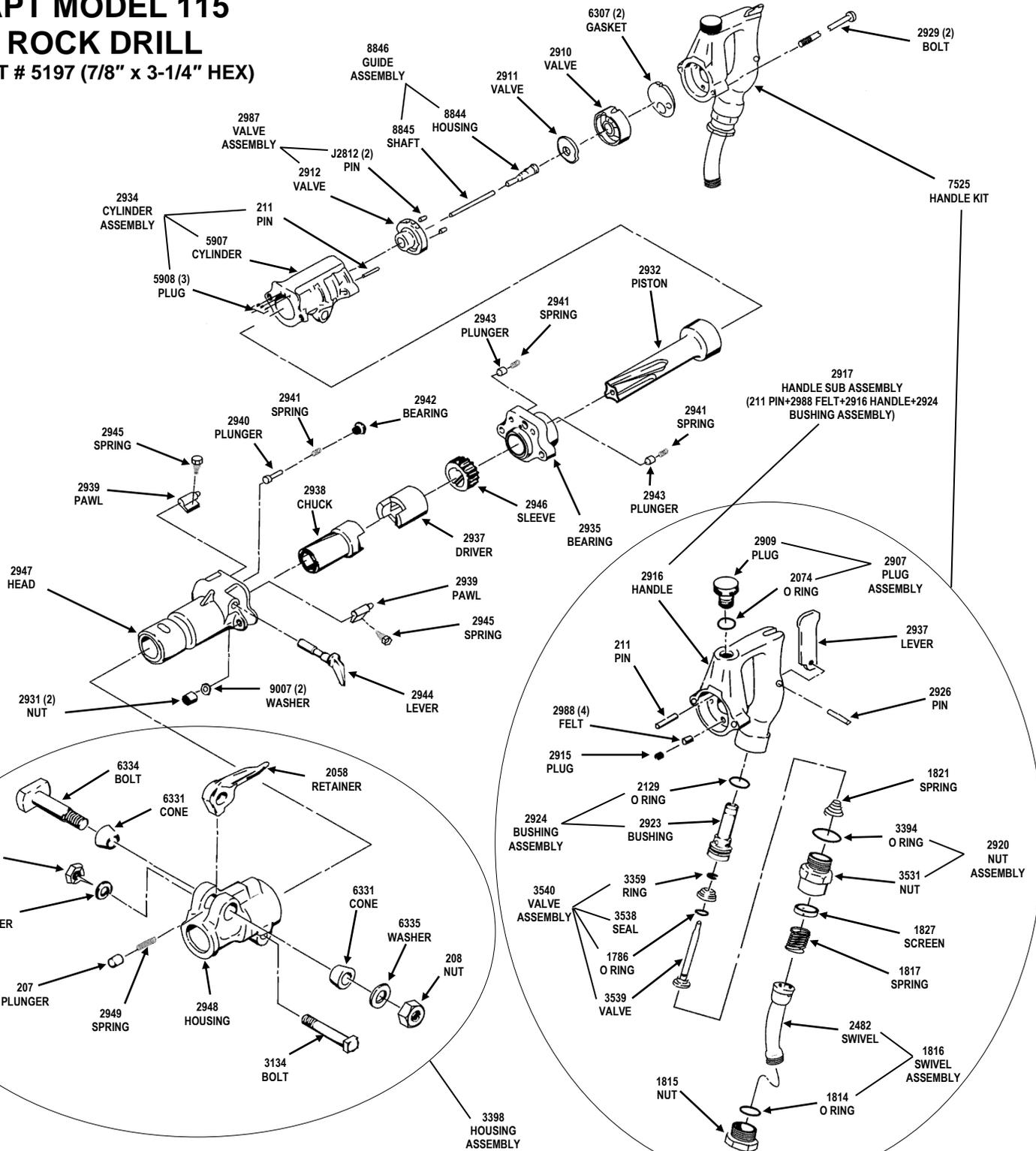
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APT MODEL 115 ROCK DRILL PART # 5197 (7/8" x 3-1/4" HEX)



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MODEL 137 ROCK DRILL

DRY DRILLING MODELS

PART # 5223 (7/8" HEX x 3-1/4")

PART # 5225 (7/8" HEX x 4-1/4")

PART # 5227 (1" HEX x 4-1/4")

WET DRILLING MODELS

PART # 5224 (7/8" HEX x 3-1/4")

PART # 5226 (7/8" HEX x 4-1/4")

PART # 5228 (1" HEX x 4-1/4")



The APT Model 137 Rock Drill is a versatile midsize Rock Drill used in general construction, utility work, and plant maintenance. It is designed for drilling through granite, hard faced rock, quarry drilling and for drilling secondary holes for blasting. It can also be used in conjunction with dowel hole drilling machines. The Model 137 is adaptable to wet drilling application by attaching the APT valve, wet tube and swivel assembly.

SPECIFICATIONS

Part #	5223	5224	5225	5226	5227	5228
Type	Dry	Wet	Dry	Wet	Dry	Wet
Hex Chuck Size	7/8" x 3-1/4"		7/8" x 4-1/4"		1" x 4-1/4"	
Bore Diameter (inches)	2-3/8"					
Stroke (inches)	2-5/8"					
Blows per Minute	2300					
CFM @ 90 psi	85 - 90					
Weight (lbs)	38					
Length (inches)	19-3/4"					
Air Inlet Size	1/2" MALE NPT					

FEATURES

- 4 drilling speeds
- Replaceable piston stem bearing
- Available in wet or dry models
- Counter clockwise rotation
- Rubber handle grips

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TDS-1033 Rev A



American Pneumatic Tool

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MODEL 155 ROCK DRILL

DRY DRILLING MODELS

PART # 5229 (7/8" HEX x 3-1/4")

PART # 5231 (7/8" HEX x 4-1/4")

PART # 5233 (1" HEX x 4-1/4")

WET DRILLING MODELS

PART # 5230 (7/8" HEX x 3-1/4")

PART # 5232 (7/8" HEX x 4-1/4")

PART # 5234 (1" HEX x 4-1/4")



The APT Model 155 Rock Drill is a tough, 60 lb class Rock Drill. This tool can be used in general construction as well as in utility work and plant maintenance. It is designed for drilling through granite, hard faced rock, quarry drilling, and drilling secondary holes for blasting. This tool can also be used with dowel hole drilling machines. Adaptable to wet drilling applications by attaching the APT valve, wet tube and swivel assembly.

SPECIFICATIONS

Part #	5229	5230	5231	5232	5233	5234
Type	Dry	Wet	Dry	Wet	Dry	Wet
Hex Chuck Size	7/8" x 3-1/4"		7/8" x 4-1/4"		1" x 4-1/4"	
Bore Diameter (inches)	2-5/8"					
Stroke (inches)	3"					
Blows per Minute	2100					
CFM @ 90 psi	110 - 120					
Weight (lbs)	61					
Length (inches)	22-3/8"					
Air Inlet Size	3/4" MALE NPT					

FEATURES

- 3 drilling speeds
- Built-in automatic oiler
- Replaceable piston stem bearing
- Available in wet or dry models
- Counter clockwise rotation
- Rubber handle grips

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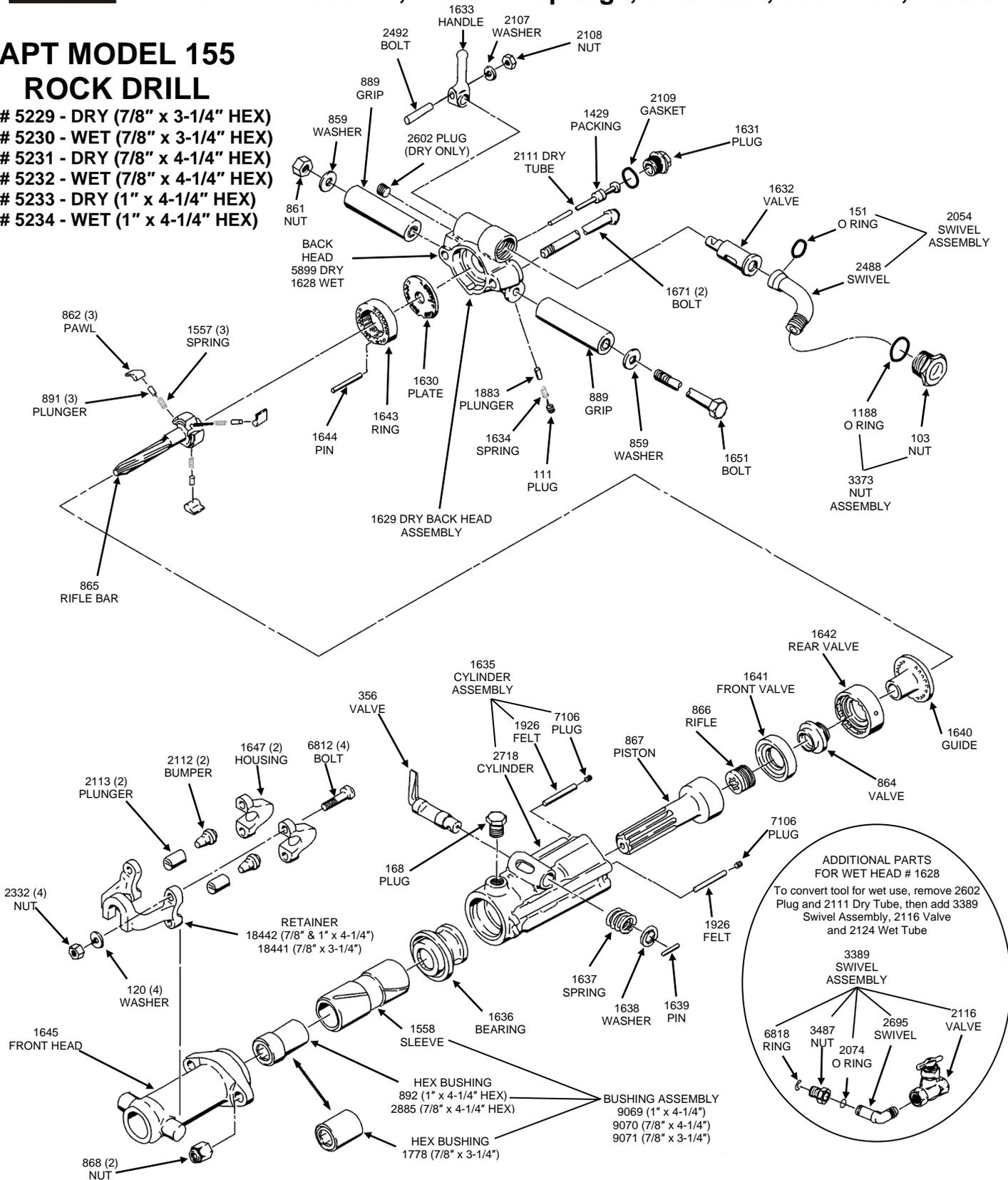


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APT MODEL 155 ROCK DRILL

- PART # 5229 - DRY (7/8" x 3-1/4" HEX)
- PART # 5230 - WET (7/8" x 3-1/4" HEX)
- PART # 5231 - DRY (7/8" x 4-1/4" HEX)
- PART # 5232 - WET (7/8" x 4-1/4" HEX)
- PART # 5233 - DRY (1" x 4-1/4" HEX)
- PART # 5234 - WET (1" x 4-1/4" HEX)



ADDITIONAL PARTS FOR WET HEAD # 1628
 To convert tool for wet use, remove 2602 Plug and 2111 Dry Tube, then add 3389 Swivel Assembly, 2116 Valve and 2124 Wet Tube

3389 SWIVEL ASSEMBLY

- 6818 RING
- 3487 NUT
- 2074 O RING
- 2695 SWIVEL
- 2116 VALVE

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TDS-1036 Rev A



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APT Model M155 Rock Drill Controls

The APT Model 155 Rock drill has 2 operating levers. It features a 3 speed throttle control and also a dust blowout feature for clearing out dust when deep hole drilling.

(Handle Assembly removed for photographs)

Throttle Control



Throttle Lever Off

Fig. 1 Tool Shut off

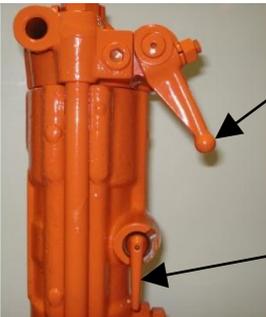
Blowout Lever Off
(Down)



Throttle Lever On
Low Power

Fig. 2 Low Speed

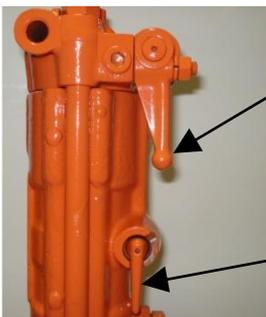
Blowout Lever Off
(Down)



Throttle Lever On
Medium Power

Fig. 3 Medium Speed

Blowout Lever Off
(Down)

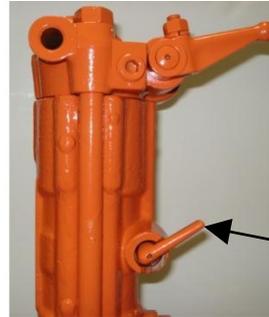


Throttle Lever On
Maximum Power

Fig. 4 Maximum Speed

Blowout Lever Off
(Down)

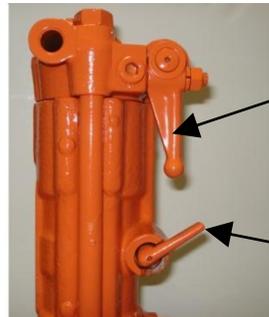
Hole Blowout Control



Throttle Lever Off

Fig. 4 Tool Shut off

Blowout Lever On
(Up)



Throttle Lever On
Maximum Power

Fig. 5 Hole Blowout

Blowout Lever On
(Up)

Throttle Control:

The low and medium power setting is used for getting the hole started. Once a deep enough hole has been established, and the drill bit head is contained in the hole and will not 'wander', it is best to operate the tool at maximum power.

Hole blowout feature:

When the hole gets deeper, the drill bit may get 'bogged down' by the loose material collecting around the drill shaft, you can use the hole blowout feature.

To operate:

Switch the throttle control lever to the off position.
Switch the blowout lever to the on (up) position.

Use the throttle lever to switch the air back on until the debris is clear of the drill shaft.

When the hole is clear, turn the throttle lever to the off position, then switch the blowout lever off (down).
You can now re-commence drilling.

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ROCK DRILLS

ACCESSORIES, SERVICE AND REPAIR KITS



M109

- 18796 SIDE ROD KIT
- 16896 WHIP HOSE ASSEMBLY WITH OILER
- 16894 WHIP HOSE ASSEMBLY WITHOUT OILER
- 18781 O RING AND SEAL KIT
- 18747 SWIVEL ASSEMBLY (1/2" HOSE BARB)

M115

- 18794 LATCH KIT
- 18797 SIDE ROD KIT
- 16897 WHIP HOSE ASSEMBLY WITH OILER
- 18782 O RING AND SEAL KIT
- 17193 UNIVERSAL COUPLER

M137

- 18798 SIDE ROD KIT
- 18748 WHIP HOSE ASSEMBLY WITH OILER
- 18783 O RING AND SEAL KIT
- 17194 UNIVERSAL COUPLER

M155

- 18756 MUFFLER KIT
- 18799 SIDE ROD KIT
- 18748 WHIP HOSE ASSEMBLY WITH OILER
- 18784 O RING AND SEAL KIT
- 17195 UNIVERSAL COUPLER

ALL MODELS

- 18754 SAFETY CABLE, HOSE TO HOSE
- 18755 SAFETY CABLE, HOSE TO TOOL

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