

Grizzly **Industrial, Inc.**®

MODEL G5348/H0597/H0598 17 PIECE AIR RATCHET KITS OWNER'S MANUAL



H0598 Shown

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SAFETY

WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

WARNING

Safety Instructions For Pneumatic Tools

- 1. READ THIS MANUAL.** This tool may cause personal injury if used incorrectly. This manual contains proper safety and operating instructions that must be followed to reduce this risk.
- 2. WEAR EYE PROTECTION.** This tool may throw small fragments during operation, which may cause serious eye injury. Always wear ANSI approved safety glasses or face shield to reduce your risk from this hazard.
- 3. WEAR A RESPIRATOR.** This tool may produce fine dust during operation, which can cause respiratory injury if inhaled. Always wear a respirator NIOSH approved for the type of material being processed.
- 4. WEAR HEARING PROTECTION.** Operating this tool for prolonged time periods may damage your hearing. Your risk depends on length and frequency of use. To reduce your risk of this hazard, wear hearing protection.
- 5. MAINTAIN SAFETY GUARDS.** Your tool may be equipped with safety guards or other structural components designed to reduce the risk of injury during operation. Never modify or operate this tool with any guards or components removed or damaged.
- 6. KEEP CHILDREN AWAY.** Prevent children from injury by keeping them away from this tool. Disconnect and lock the tool away when not in use.

7. **AVOID ENTANGLEMENTS.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry, which may get caught in moving parts, when operating this tool. Wear a protective hair covering to contain long hair.
8. **USE CORRECT AIR PRESSURE.** Exceeding the maximum PSI rating of this tool may cause unpredictable operation or bursting.
9. **DISCONNECT AIR PRESSURE** before servicing, changing accessories, or moving to another location. Never leave this tool unattended when connected to air.
10. **SECURE TOOLING.** Always verify tooling is secure before operation.
11. **SHARP SURFACES.** DO NOT place hands near the tooling surfaces when in operation.
12. **REMOVE ADJUSTING KEYS AND WRENCHES AFTER USE.** These tools become dangerous projectiles if left on the tool when it is started.
13. **AVOID FLAMMABLES.** Do not use this tool around any flammables that may be ignited by sparks.
14. **SECURE WORK.** Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.
15. **MAINTAIN TOOLS WITH CARE.** Keep tools lubricated and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
17. **CHECK FOR DAMAGED PARTS BEFORE USING.** Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect operation. Repair or replace damaged parts before operating.
18. **USE GOOD LIGHTING.** Keep work area well lighted. Dark work areas increase risk of accidental injury.
19. **AVOID UNINTENTIONAL OPERATION.** Always disconnect air when not in use, and do not carry tool with hand on trigger.
20. **USE THE RECOMMENDED ACCESSORIES.** Consult owner's manual for recommended accessories. Using improper accessories may increase the risk of injury.
21. **NEVER ALLOW UNTRAINED USERS TO USE THIS TOOL WHILE UNSUPERVISED.**
22. **IF YOU ARE UNSURE OF THE INTENDED OPERATION, STOP USING TOOL.** Seek formal training or research books or magazines that specialize in pneumatic tools.
23. **BE AWARE OF HOSE LOCATION.** Hoses can easily become a tripping hazard when laid across the floor in a disorganized fashion.
24. **DO NOT USE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL, OR WHEN TIRED.**

CAUTION

No list of safety guidelines is complete, because every work environment is different. Always consider safety first and use common sense. Failure to use this tool with caution and respect could result in serious personal injury.

Inventory

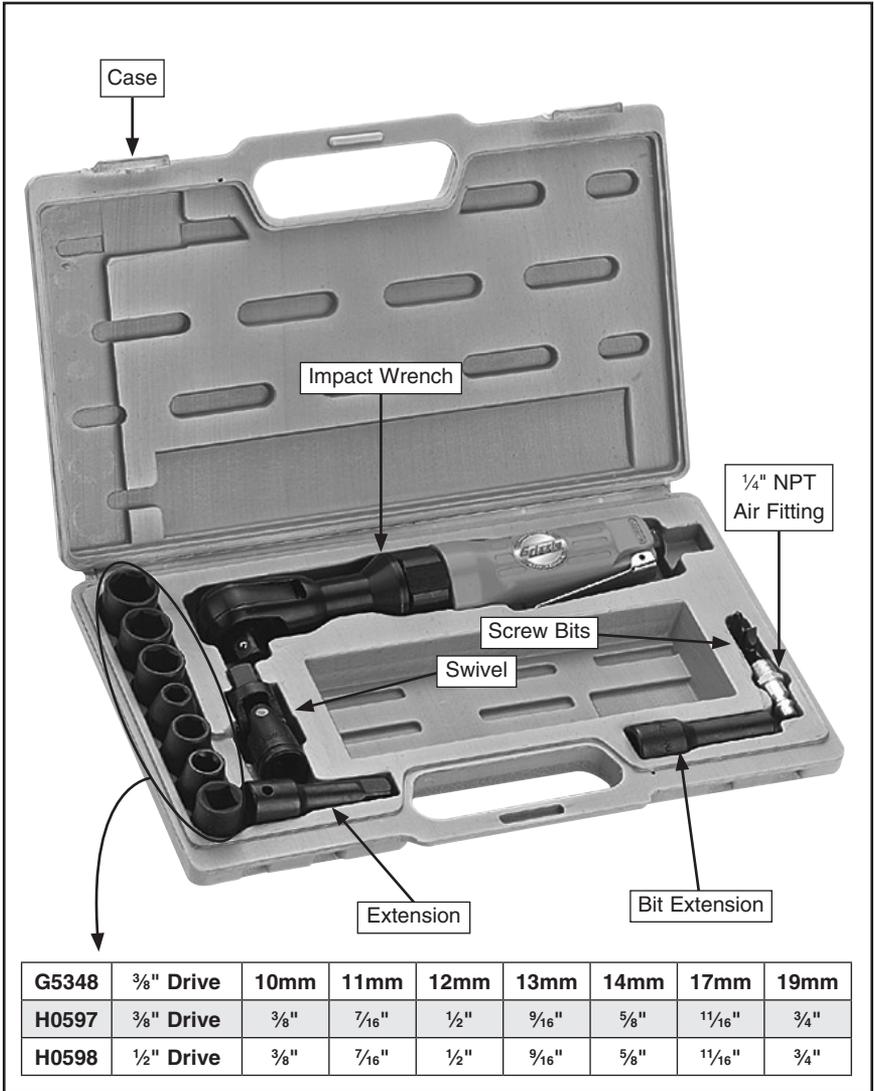
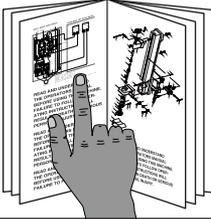


Figure 1. Inventory components.

OPERATIONS

!WARNING



Read the manual before operation. Become familiar with this tool, its safety instructions, and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.

!WARNING



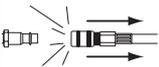
EYE INJURY HAZARD!
Wear protective equipment when using these tools.



LUNG/EAR INJURY HAZARD!
Wear protective equipment when using this tool.



AIR PRESSURE HAZARD!
Never exceed 120 PSI.



ACCIDENTAL START HAZARD!
Disconnect before service or tool changes.

G5348 Specifications

Drive Size 3/8"
No-Load Speed 160 RPM
Maximum Torque 50 ft/lb
Air Inlet Size 1/4" NPT
Air Consumption 4 CFM
Operating Pressure 90 PSI
Maximum Operating Pressure..... 120 PSI
Weight 6 lbs

H0597 Specifications

Drive Size 3/8"
No-Load Speed 160 RPM
Maximum Torque 50 ft/lb
Air Inlet Size 1/4" NPT
Air Consumption 4 CFM
Operating Pressure 90 PSI
Maximum Operating Pressure..... 120 PSI
Weight 6 lbs

H0598 Specifications

Drive Size 3/8"
No-Load Speed 160 RPM
Maximum Torque 50 ft/lb
Air Inlet Size 1/4" NPT
Air Consumption 4 CFM
Operating Pressure 90 PSI
Maximum Operating Pressure..... 120 PSI
Weight 7 lbs

Air Supply

The impact wrench requires 90 PSI to operate correctly. To improve air tool lifespan, use a filter/lubricator/regulator setup shown in **Figure 2**.

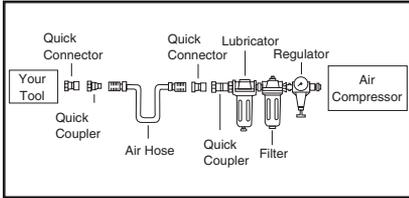


Figure 2. Installed filter lubricator regulator.

Otherwise, lubricate the impact wrench daily with a 2–6 drops of pneumatic tool oil directly into the tool's air inlet fitting, as shown in **Figure 3**, before and after each use and every 2 hours of continued use.

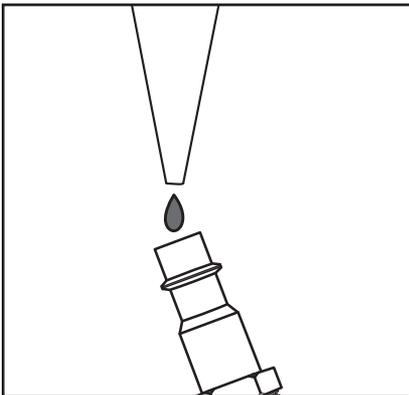


Figure 3. Manual oiling.

Controls



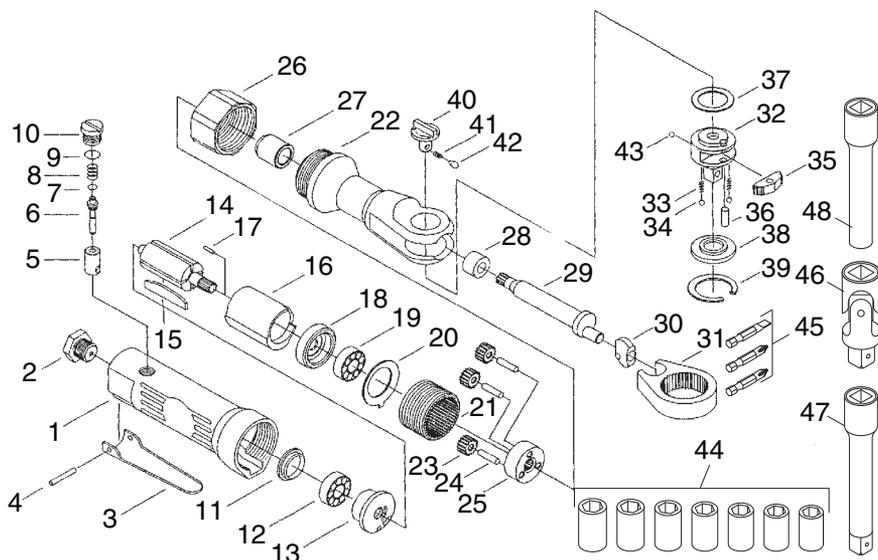
Figure 4. Ratchet controls.

Daily Maintenance

These procedures should be done after each use:

- Before putting the impact wrench away, put 2-6 drops of oil into the air supply fitting and momentarily operate the tool to distribute the oil inside.
- Wipe the tool exterior and sockets with a slightly oiled cloth. Your goal is to leave a light film of oil on the tool to prevent rust.

G5348/H0597 Breakdown*

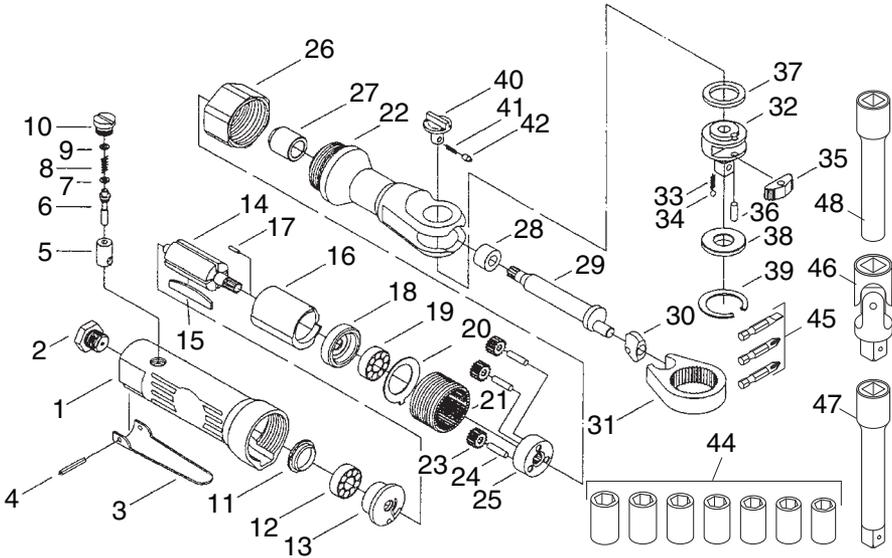


REF PART #	DESCRIPTION
1	P5348001 HOUSING
2	P5348002 AIR INLET
3	P5348003 THROTTLE LEVEL
4	P5348004 ROLL PIN
5	P5348005 VALVE BUSHING
6	P5348006 VALVE STEM
7	P5348007 O-RING
8	P5348008 SPRING
9	P5348009 O-RING
10	P5348010 VALVE PLUG
11	P5348011 END PLATE CAP
12	P626ZZ BALL BEARING 626ZZ
13	P5348013 REAR PLATE
14	P5348014 ROTOR
15	P5348015 ROTOR BLADE
16	P5348016 CYLINDER
17	P5348017 CYLINDER PIN
18	P5348018 FRONT PLATE
19	P608ZZ BALL BEARING 608ZZ
20	P5348020 WASHER
21	P5348021 THREAD RING GEAR
22	P5348022 RATCHET HOUSING
23	P5348023 IDLER GEAR
24	P5348024 IDLER GEAR PIN
25	P5348025 IDLER GEAR PLATE

REF PART #	DESCRIPTION
26	P5348026 CLAMP NUT
27	P5348027 BUSHING
28	P5348028 BEARING
29	P5348029 CRANK SHAFT
30	P5348030 DRIVE BUSHING
31	P5348031 RATCHET YOKE
32	P5348032 RATCHET ANVIL 3/8"
33	P5348033 SPRING
34	P5348034 STEEL BALL
35	P5348035 PAWL
36	P5348036 PIN
37	P5348037 WASHER
38	P5348038 THRUST WASHER
39	P5348039 RETAINER RING
40	P5348040 REVERSE BUTTON
41	P5348041 SPRING
42	P5348042 LOCK PIN
43	P5348043 STEEL BALL
44	P5348044 3/8" SOCKET SET 7PC MET
44	PH0597044 3/8" SOCKET SET 7PC SAE
45	P5348045 SCREW BIT SET 3PCS
46	P5348046 SWIVEL SOCKET JOINT
47	P5348047 DRIVER EXTENSION BAR
48	P5348048 SCREW EXTENSION BAR

* Breakdown shown for service purposes only. Not all parts are available for purchase.

H0598 Breakdown*



REF PART #	DESCRIPTION
1	PH0598001 HOUSING
2	PH0598002 AIR INLET
3	PH0598003 THROTTLE LEVEL
4	PH0598004 ROLL PIN
5	PH0598005 VALVE BUSHING
6	PH0598006 VALVE STEM
7	PH0598007 O-RING
8	PH0598008 SPRING
9	PH0598009 O-RING
10	PH0598010 VALVE PLUG
11	PH0598011 END PLATE CAP
12	P626ZZ BALL BEARING 626ZZ
13	PH0598013 REAR PLATE
14	PH0598014 ROTOR
15	PH0598015 ROTOR BLADE
16	PH0598016 CYLINDER
17	PH0598017 CYLINDER PIN
18	PH0598018 FRONT PLATE
19	P608ZZ BALL BEARING 608ZZ
20	PH0598020 WASHER
21	PH0598021 THREAD RING GEAR
22	PH0598022 RATCHET HOUSING
23	PH0598023 IDLER GEAR
24	PH0598024 IDLER GEAR PIN

REF PART #	DESCRIPTION
25	PH0598025 IDLER GEAR PLATE
26	PH0598026 CLAMP NUT
27	PH0598027 BUSHING
28	PH0598028 BEARING
29	PH0598029 CRANK SHAFT
30	PH0598030 DRIVE BUSHING
31	PH0598031 RATCHET YOKE
32	PH0598032 RATCHET ANVIL 1/2"
33	PH0598033 SPRING
34	PH0598034 STEEL BALL
35	PH0598035 PAWL
36	PH0598036 PIN
37	PH0598037 WASHER
38	PH0598038 THRUST WASHER
39	PH0598039 RETAINER RING
40	PH0598040 REVERSE BUTTON
41	PH0598041 SPRING
42	PH0598042 LOCK PIN
43	PH0598043 STEEL BALL
44	PH0598044 1/2" SOCKET SET 7PC SAE
45	PH0598045 SCREW BIT SET 3PCS
46	PH0598046 SWIVEL SOCKET JOINT
47	PH0598047 DRIVER EXTENSION BAR
48	PH0598048 SCREW EXTENSION BAR

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