

Technical Bulletin M6348

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Hypo Hatchet Tree Injector

No. 21002

Hypo Hatchet Tree Injector

No. 21038

Plastic Bottle, 1 gal.

No. 21039

Carrying Bag w/belt loop



Tech Support 800-430-5566

If you need more information or would like advice from an experienced professional, call our Technical Support team.

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Trouble-Shooting Guide & Storage Tips

Problem: Blade glances off tree.

Solution: 1. Be sure the angle of impact is about 45°. If the angle is less than 30° to the tree, glancing will occur.

2. Check the angle at which the bit is ground. It should be about 20-25°. If the cutting edge is thicker than 30°, the rounded shoulder of the bit will cause glancing. If the bit is worn so that it is difficult to sharpen at a thin angle, replace the bit.

Problem: Herbicide does not emerge properly from bit outlet after striking the tree.

Solution: 1. First check to see if there is herbicide in the hose. If there is only air in the hose and there is herbicide in the bottle, the piston is not functioning properly. To check this, remove head plug (Part 16). With a clean probe, such as a screwdriver, nail, paperclip or similar device, push piston down and release it several times to simulate the pumping action of striking the hatchet against a tree. This should start herbicide flowing through the hose. Sometimes the piston may stick if left with chemical in it. Simply pumping a few strokes with the piston should get it working properly.

2. If the piston binds in the cylinder, replace the one "O" ring with one from Forestry Suppliers, Inc. only. Note: There should always be only one "O" ring in the top groove of the piston.
3. If pumping doesn't start the flow, check hose and foot valve (Part 20) in the bottle to

see if there is an air leak. If there is no leak, the trouble may be in the piston. In this case, remove the piston to check that the ball valve in the piston is working properly. The ball should be retained by a cross pin visible from above, beneath which the ball should move freely about 1/8" away from its seat. If there is dirt between the ball and seat, it will not pump efficiently. Clean the piston assembly, install the piston return spring (Part 11) and install the piston and retainer piston seal (Part 14). When installing piston, the cross pin should be visible from above. If not, the piston is upside down and will not work. Repeat the pumping action.

4. If there is still failure to draw herbicide through the hose, remove the handle to check that the hose is still connected to the connector in the head.
5. Sometimes the piston may appear to malfunction if the bit orifice is plugged. Check bit outlet to determine if bark is jammed in the hole. If jammed tightly, it may be necessary to remove the bit to probe out the obstruction. If plugged, remove from inside the bit with a nail, paperclip or similar device.
6. If at any time the piston does not move freely and fails to move to the top of its stroke under normal spring pressure, remove the piston. Clean the cylinder and piston with clean water. Coat the piston lightly with light oil and install the piston. (See also solution 1.)

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Problem: Rubber hand grip comes loose from handle.

Solution: Slide hand grip off handle and remove old cement from metal surface. Apply "GOOP" brand of adhesive, or similar, to metal in a generous, uniform coat. Immediately slide grip back onto metal handle. Allow to set 24 hours before using.

Problem: Handle comes loose from head.

Solution: Loosen jam nut (Part 3) on hex bolt (Part 2). Tighten set screw.

If handle loosens again, remove handle. After locating spot where set screw touches the handle, mark the center of that spot with a center punch. Using a 7/32" drill, drill at that point only to the point that permits the set screw to fit on and catch.

Problem: Long herbicide hose gets tangled in brush.

Solution: Run hose from rear-mounted container between legs. If hose is still too long, shorten by two inches at a time, until comfortable.

Storage of your Hypo-Hatchet® Tree Injector

The components of the Hypo-Hatchet are nickel-plated or stainless steel for corrosion resistance. However, it is always a good idea to thoroughly rinse out all parts that have been in contact with chemicals before putting the equipment away. If storing for more than a few days, it is advisable to coat the tool steel bit with oil, to prevent rust.

Hypo Hatchet Tree Injector Replacement Parts

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Ref.	Description	Stock No.
1	1/4" NC x 1/2" Hex Bolt, Stainless	21031
2	1/4" NC x 1-3/8" Hex Bolt, Stainless	21030
3	1/4" NC Jam Nut, Stainless	21033
4	1/4" Stainless Lock Washer, pack of two	21032
5	Bit, Tool Steel	21004
6	O-Ring, Bit	21022
7	Body (Head), Nickel Plated	21040
8	O-Ring; Connector, Handle	21041
9	Connector, Handle	21042
10	1/16" Spacer, Pk. of 3	21043
11	Spring	21024
12	O-Rings, Piston, Pk. of 2	21044
13	Piston Assembly	21045
14	Seal, Piston	21046
15	O-Ring; Plug, Head	21047
16	Plug, Head	21048
17	Handle Assembly with Grip	21049
18	Hose with Repair Couplings	21018
19	Splice, Hose Connector	21050
20	Foot Valve	21051
21	1/4" Spacer, Pk. of 2	21052

