



***CORE COLLECTOR
ASSEMBLY AND
OPERATOR'S MANUAL***

Toro Model 648

Assembly

Core Collector assembly consists of:
2 – Sets of mounting brackets (additional brackets may be included for different makes and models of aerators)
2 – Side panels
1 – Back panel
1 – Bottom plate
2 – Drag bars
Package of fasteners



1 – Bolt side panels to back panel.
Ensure the back panel is inside the side panels and the side panel wraps behind the back panel. See figure “A”



Figure “A”

2 – Place bottom plate inside the assembled back and side panels

Note: The flat bar of the bottom plate faces the front of the core collector with the formed edge facing the back of the core collector. See Figures “A1 and A2” This will appear backwards as concerns will be the cores will meet the blunt edge causing the collection not to work, but the cores will ride over the blunt edge and “ride” the bottom plate until they are dropped when the unit is raised.

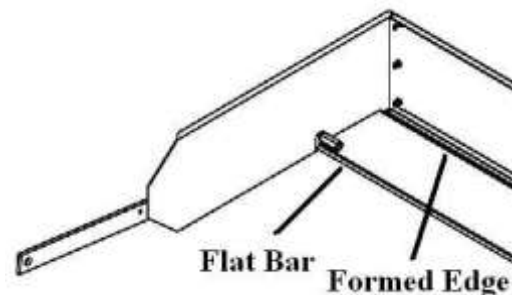


Figure “A1”

Optional bottom plates are available for different size cores – for .500” and smaller cores the thin plate is suggested and for larger than .500” cores, the thicker plate is recommended



Figure "A2"

3 – Slide drag bars between retaining plate on each side of side panels feeding the end with the taper cut to the bottom plate. Secure drag bar with ½" X 2" bolt to the threaded hex weldment of the bottom plate. **DO NOT OVER TIGHTEN** See figures "B" and "B1"



Figure "B"

IMPORTANT

The bolt **MUST** be loose in order to allow the bottom plate to "fall" open when the aerator is raised



Figure "B1"

Optional Brush Assembly

Note: If the optional brush assembly is being installed – place the brush carrier arms outside the drag bars. See figure "B2"



Figure "B2"

4 – Fasten mounting plate to the aerator to the outside of the plastic shields.

- a) Adjust plastic shield as low as possible

Once the brackets have been installed on the aerator:

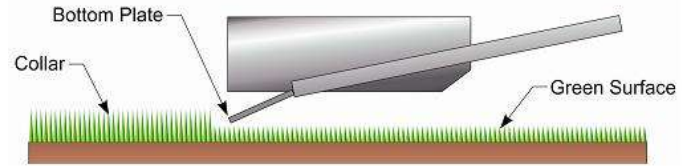
5 – Attach drag bars to the mounting plate. Secure drag bar to mounting plate with ½" lock nut. Do not over-tighten; the drag bar must be free to "float".

Note:

Drag bar "rests" on top of the lift bolt. The drag bar "floats" allowing core collector to follow undulations.



6 – Thread the ½” X 2” lift bolt into bottom threaded hole. The placement will determine the lift height of the core collector. See figure C1



Leaving Cores Behind after part way across the green

SET UP AND OPERATION

Raise the aerator to full lift position
The bottom plate must swing freely.
The bottom plate should open wide enough to deposit cores, yet allows drag bars to “float” when unit is on the ground as to follow undulations.
Operator must take care when backing, turning or loading the unit as bottom plate may drag the ground at times.
Note: Air pressure in tire of the aerator can affect the lift height of the core collector.

See photo below



If this is occurring it normally is cause from a distortion around the perimeter of each coring hole. The soil conditions are such that as the tine exits the green it's causing the perimeter of the hole to “pucker”

Trouble Shooting

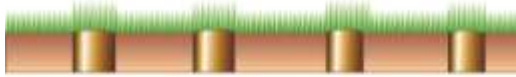
Leaving Cores Behind from initial start

If plugs are left behind the core collector from the start of coring, try dropping aerator down once the core collector is on the green putting surface and not dropping on the collar. In some conditions the cores will “bridge” the side panels and bottom plate as it comes onto the green off of the collar and causes the bottom plate to ride on top of the cores



The bottom plate is “riding” on top of the holes and allows cores to “sluff” under the bottom plate.

Perimeter edges or rim of holes are extruded above green surfaces as tines exit the turf.



Cross section of green after coring aeration



Bottom plate will ride on top of the tuffs of turf and allow sand, soil and debris to go underneath the plate and cause it to lift off the greens surface.

Quickest solution will be to top dress ahead of aerification. The sand will fill in around the low spots. The cores will ride up and onto the bottom plate. This practice is recommend by many turf professionals and becoming a preferred routine even without the sluffing issue.

If top dressing is not an option or does not resolve the issue, a down pressure spring kit is available from Turf Pride.

