NEW ‘Double-Down’ Turret Outlet for Combo-Rate Turrets

This bulletin illustrates a new part, which can be retro-fitted onto any existing Combo-Rate Turrets (including Side take-off turrets*; see known interference for side take-off turret installation/interference).

Why use the double-down outlet?
For spray applications that require high flow rates and excellent coverage, using multiple tips (for same total flow) can be an excellent to create more meaningful spray, for a better application.

Unfortunately, most spray nozzles or systems only offer forward/backward multi-tip spraying.
While multi-angle spraying does split the volume into two smaller (and hopefully more meaningful) spray patterns, it can dramatically increase the distance the spray has to travel in order to make contact with the spray target. The extra distance can mean you open yourself up to more drift potential, but also it dramatically lessens the spray’s ability to penetrate a dense canopy.

The double-down outlet removes this downfall.

Get Better Coverage & More Effective Spray Volumes with the Double-Down!

Multi-angle spraying leads to further travel distance to target, meaning less penetration into the crop’s canopy, and less effective spray.

**It is recommended to replace the outlet arm o-ring when retro-fitting a turret with a double-down.

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“Double-Down” Outlet Retro-Fit & Replacement for Combo-Rate Turrets

Compatible Turrets & Parts

ALL Combo-Rate® Turrets

Any genuine Combo-Rate® turrets in good condition can be retro-fitted to use the double-down outlet.

Combo-Rate® Back take-off Turrets

#415XX-00 Series of Turrets

41535-00 w/ Capstan solenoid shown

41615-00 w/ manual on/off check valve

Combo-Rate® Side take-off Turrets

#416XX-00 Series of Turrets

Retro-Fit & Replacement for existing Combo-Rate Turrets

Carefully remove check valve & lock ring from turret hub

For side-turrets, remove two phillips screws to access turret hub lock ring.

Carefully remove outlet arm from turret hub

Ensure not to damage turret hub components during removal.

Add o-ring to double-down outlet O-ring groove

Slightly lubricate O-ring (with liquid silicone or equivalent)

Install double-down outlet, replace hub lock ring & check valve (or solenoid)

ENSURE proper Turret orientation when replaced. “UP” or “THRU-SIZE DOWN” instructions must be followed.

Ensure o-ring is seated properly in the turret hub, and not pinched.

Ensure turret hub lock ring is sealed all the way to flush, so no space is showing.

If not sealed properly, leaking can occur!

Picking Spray Tips for Double-Down Spraying

When consulting Tip Wizard or tip charts to pick spray tips, simply split the total volume sprayed (e.g 15 US GPA) into two separate tip searches (e.g. Dual 7.5 US GPA tips, or a 10 & 5 US GPA Tip Search)

Example: 15 US GPA Fungicide Application = SR110-06 Effective 10 US GPA @ 40PSI + MR110-03 Effective 5 US GPA @ 40PSI

**Known Interference with Double-Down Outlets**

Despite the compact nature of the double-down outlet, there are some retro-fit options that will cause interference, rendering extra measures (or loss of function) that need to be taken.

Boom End Flush Valve Interference

Work-Around: Simply rotate turret other direction to achieve any orientation.

PWM Solenoid Interference (Side take-off turret only)

Work-Around: Purple tip cannot be used in spray orientation. Replace tip to a useable outlet, and spray.

No such interference with back take-off turrets (#415XX-00 series)

Combo-Rate Side Take-Off Turrets (#416XX-00 series)

Other Turret Outlets & Plug

Turret outlets can be switched to a variety of different outlets (or plug) to suit any application.

WILGER - Better Engineered Sprayer Components for Over 40 Years