



WILGER

Product Bulletin

**New Combo-Rate Turret Outlet
"Double-Down Outlet"
Product Release**

Bulletin Date: April 16, 2019
Bulletin Reference: 190416-01

Makers of World Class Spraying Components

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.

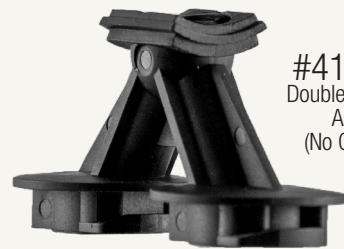
Unfortunately, most spray nozzles or systems only offer forward/backward multi-tip spraying.

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.

Double-Down Turret Outlet

The double-down outlet can replace a single outlet on any Combo-Rate turrets, using two nozzles to spray down, allowing for more meaningful spray quality.*



#41502-13
Double-down Outlet
Arm Only
(No O-ring incl.)

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



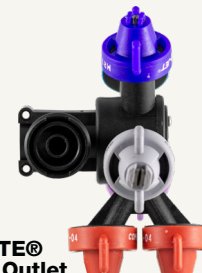
#20455-07
Outlet Arm O-ring**
(Can also be black)

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

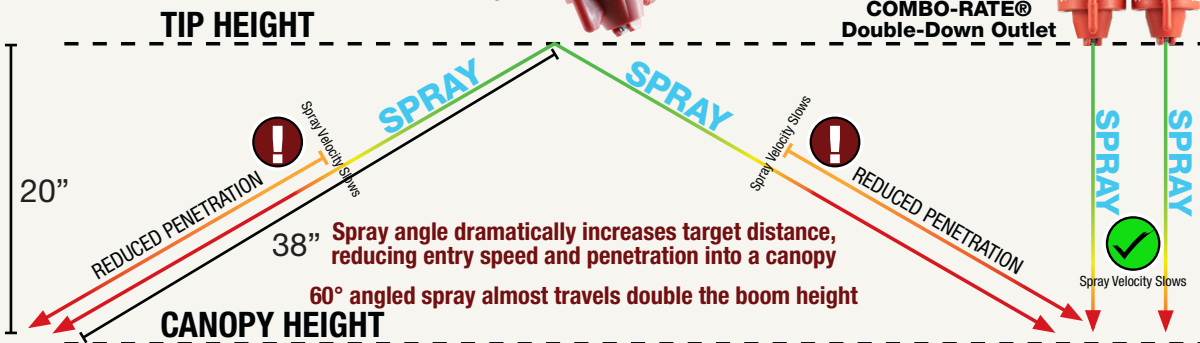
Multi-angle spraying leads to further travel distance to target, meaning less penetration into the crop's canopy, and less effective spray



e.g. Spray tips on 60° Wye-splitter Adapter



COMBO-RATE® Double-Down Outlet



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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

Combo-Rate® Side take-off Turrets**

#416XX-00
Series of Turrets



41615-00 w/
manual on/off
check valve

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



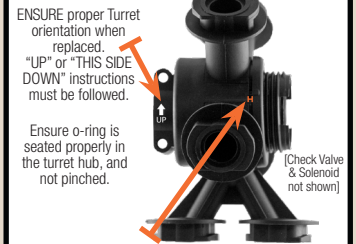
Ensure not to damage turret hub
components during removal.

Add o-ring to double-down
outlet O-ring groove
Slightly lubricate O-ring
(with liquid silicone or equivalent)



Firmly place the O-ring into groove,
to ensure O-ring doesn't pop out
during reassembly.



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



Ensure turret hub lock ring is sealed all the way
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)

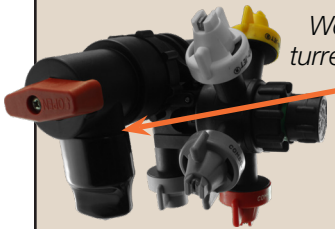
Example: 15 US GPA =  SR110-06 Effective 10 US GPA @ 40PSI +  MR110-03 Effective 5 US GPA @ 40PSI

! **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 suite any application.



Combo-Jet
Spray Tip
Outlet
#41502-04

Square Lug
Spray Tip
Outlet
#41502-10

Outlet Plug
#41502-05

Turret Outlet
O-ring
#20455-07

Double-down
Outlet
#41502-13