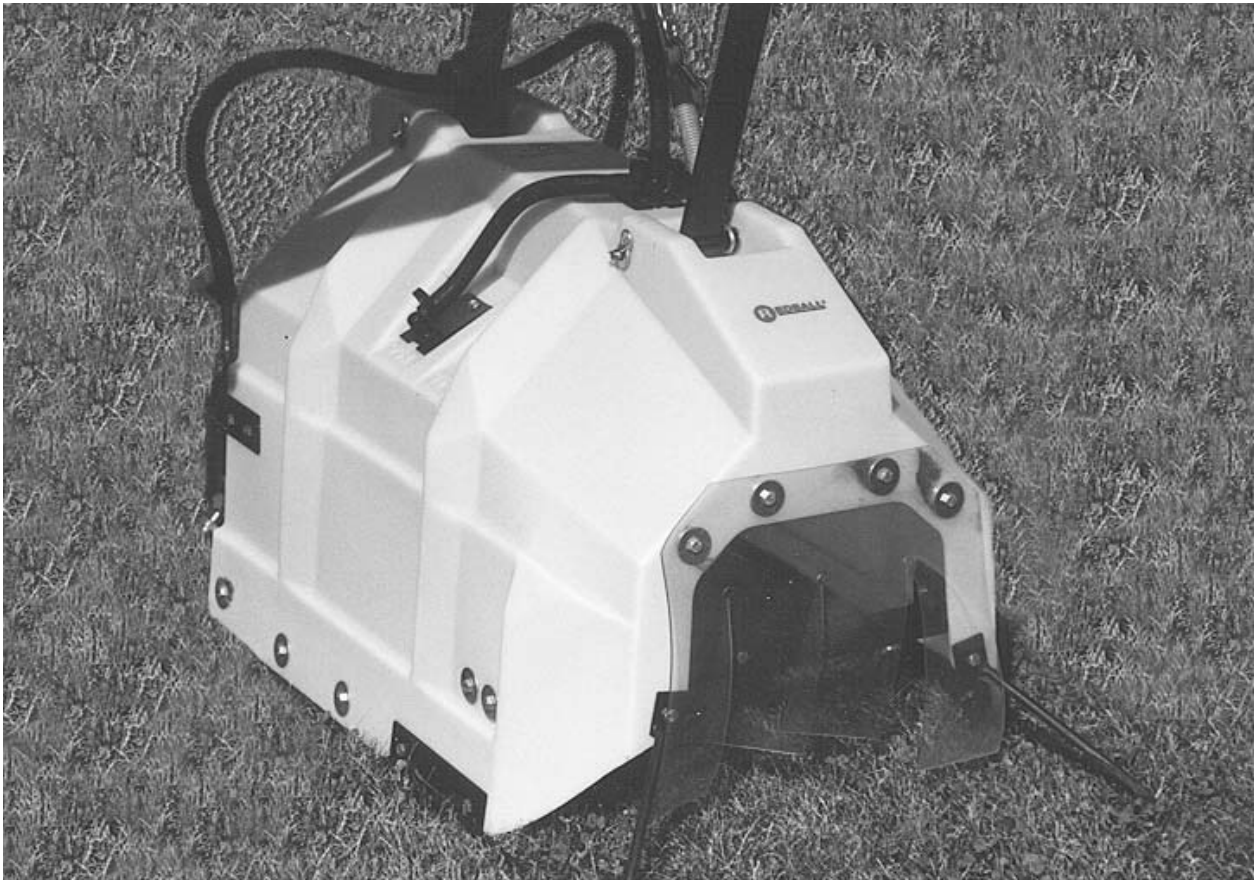




## CONSERVATION SPRAY- HOOD™



Assembly and Operation  
Instructions



# CONSERVATION SPRAY-HOOD™

## TO THE OWNER

Congratulations on your selection of a Redball® CONSERVATION SPRAY-HOOD™. Redball® products have earned a reputation of providing a durable sprayer throughout the U.S. and Canada.

Redball® Sprayers have been designed to provide many years of profitable and dependable service. To assure maximum performance of your sprayer, it is mandatory that you thoroughly study the operator's manual and follow its recommendations. Proper operation and maintenance are essential for safety, to maintain performance, and to maximize the life of the sprayer.

### **It is the owner's responsibility to :**

- Operate and maintain this sprayer in a safe manner and in accordance with all applicable local, state, and federal codes and/or laws; and in compliance with labeling instructions furnished by the supplier of the chemical being used.
- Make sure each and every operator has read the operator's manual and thoroughly understands safe and correct operating procedures.
- Make sure unauthorized people do not operate or are in the vicinity of the sprayer while it is in operation.
- Maintain the sprayer in accordance with the maintenance schedule in this manual. Furthermore, as additional technology becomes available, the owner is responsible for improving the safety, and reliability of the system.
- Fulfill all warranty obligations so as not to void the warranties. Verify the unit is warranty registered prior to making any warranty claims. The warranty section at the back of this manual outlines the warranty policy of Redball, LLC.
- Abuse or modifications to the sprayer that change the performance other than original factory specifications void the warranty.

Redball, LLC reserves the right to make product improvements to the equipment at any time. It shall not be obligated to make such changes to machines already in service.

*\* The owner, manager and/or operator is responsible for safe, accurate operation and maintenance of the Redball® Sprayer.*

# CONSERVATION SPRAY-HOOD™

## Redball® CONSERVATION SPRAY-HOOD™ Spray Tip Configurations for Use in Cotton & Soybeans

### Spray Attachments: Method 1

The cross is installed at center of hood in position marked 95 on the top of the hood. Secure it to hood with the locking clip, self tapping screw and tinneman nuts provided. Next, install the elbows in the 95 A holes located on each side of the hood. Secure to hood with locking clip and screw. Install the 100 mesh strainer (green) and DG95015 EVS spray tips using the quick caps. Connect black sprayer hose from each barb on cross to each elbow and secure it with plastic clamps provided. Refer to spray tip charts and your chemical label for application rates with the three DG95015EVS tips.

### Optional Setting

The 95 B settings are used when the 20" hood width is set at 24" and the 28" hood width is set at 32".

### Spray Attachments: Method 2

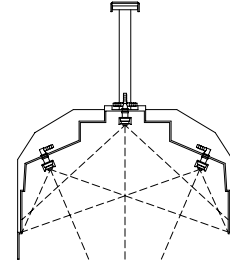
Blank the side nozzles. Install a 50 mesh strainer (red) and DG9504 EVS (not included) spray tip using the quick cap. Connect black sprayer hose and secure it with plastic clamps provided. Refer to the manufacturer's spray tip charts and your chemical label for application rates with one DG9504 EVS.

### Spray Attachments: Method 3 14" Spray Hood

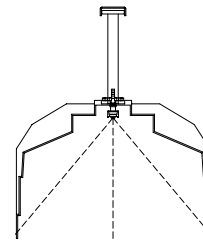
Install the 50 mesh strainers (red) and DG8004 VS spray tip using the quick caps. Connect black sprayer hose and secure it with plastic clamps provided. Refer to spray tip charts and your chemical label for application rates with one DG8004VS tip. This hood is used at the end of each Hooded Redball® Model 410 Conservation Hooded Sprayer when the row spacing is 30".

### Spray Tip configuration for use in Corn and Milo: Method 4

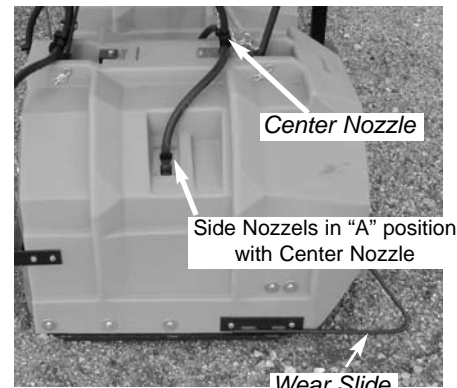
Blank the side nozzle openings. The straight nozzle fitting is installed in the center of the hood in a position marked 950. Install the mesh strainers and TDVSC-XXX venturi aspirator, TPXXX EVS spray tip and quick cap. This is standard with the Conservation spray hood kit for corn and milo. Refer to spray tip charts and your chemical label for application rates with the Greenleaf Turbo Drop Nozzle. Note, Turbo venturi and exit tip are a matched set.



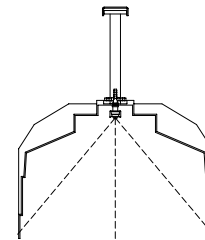
Illustrated Method 1  
Typical Hood 3 Nozzles



Illustrated Method 2 & 3  
Typical Hood 1 Nozzle



Standard Plumbing



Illustrated Method 4  
Typical Hood 1 Nozzle



### **IMPORTANT**

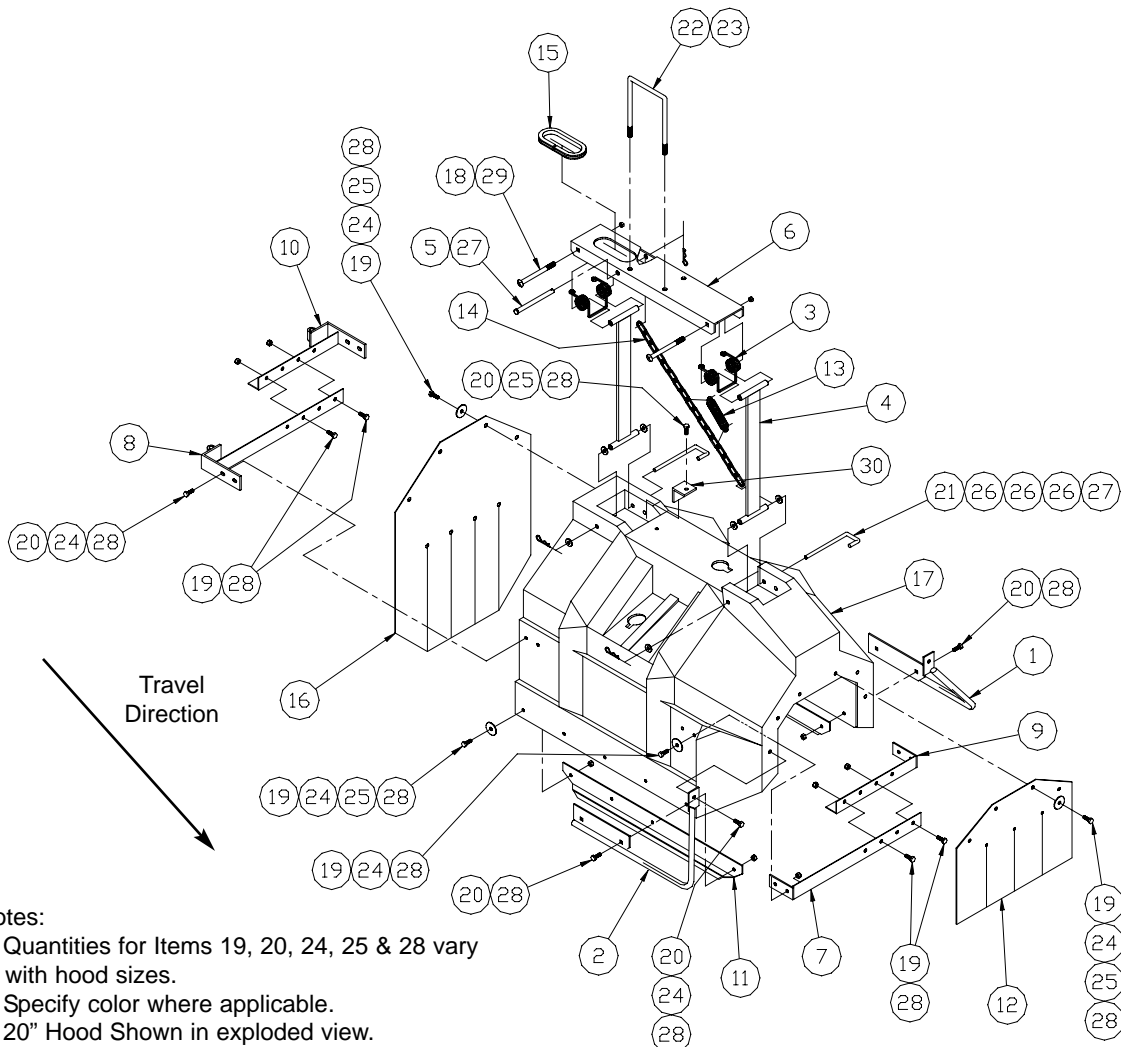
The Redball Spray Hoods match TurboDrop nozzles to the hood size and spray pattern required. The TurboDrop tip in the end hoods have a smaller flow rate than the center hoods.

# CONSERVATION SPRAY-HOOD™

## Hood Assembly (See Below)

Place the swing arms in the recess of the hood. Add 5/16" washers to each side of the swing arm and insert the J-pin through the washer and swing arm. Also add the chains to the front swing arm. The J-pin will fit into a preformed hole when properly installed. The expanded chain will fit over the swing arm. It is installed only on the front swing arm. Add another washer to the J-pin and insert the clip pin to fasten the swing arm. Repeat for the rear swing arm. They should swing freely without binding. Install torsion spring onto swing arm by spreading the spring and placing over the ends of the swing arm. The ends of the spring must be facing to the rear of the hood. The wire that connects the two springs must be to the rear of the flat arm of the swing arm. Next, attach the swing arms to the formed channel bracket using the 5/16" x 4" long carriage bolts and nuts. The large slot in the bracket will be at the rear of the spray hood. The holes will be in the middle of the hood. Attach the spring and chain assembly to the formed channel bracket using the clevis pin. Using the chain and spring, adjust to establish the desired mounting height. Attach the wind curtains to the hood and use the 1/4" x 3/4" long bolts, fender washers, and locknuts. Attach the spreader and adjustable skid to the hood using holes provided and the 1/4" x 3/4" long bolts, fender washers, and nuts. Fender washers are installed on the outside of the hood. The rear spreader bar mounts outside of the hood. The fender washers are installed inside using 1/4" x 1" long bolts. Set the required width and tighten with two 1/4" x 3/4" long bolts and nuts.

Install the wear slides as shown using the 1/4" x 3/4" long bolts, washers, and locknuts. Install the washer outside of the hood. Attach the lift rods in the front two holes and use the 1/4" x 1" bolts. Adjust the height as necessary.



**Notes:**

1. Quantities for Items 19, 20, 24, 25 & 28 vary with hood sizes.
2. Specify color where applicable.
3. 20" Hood Shown in exploded view.

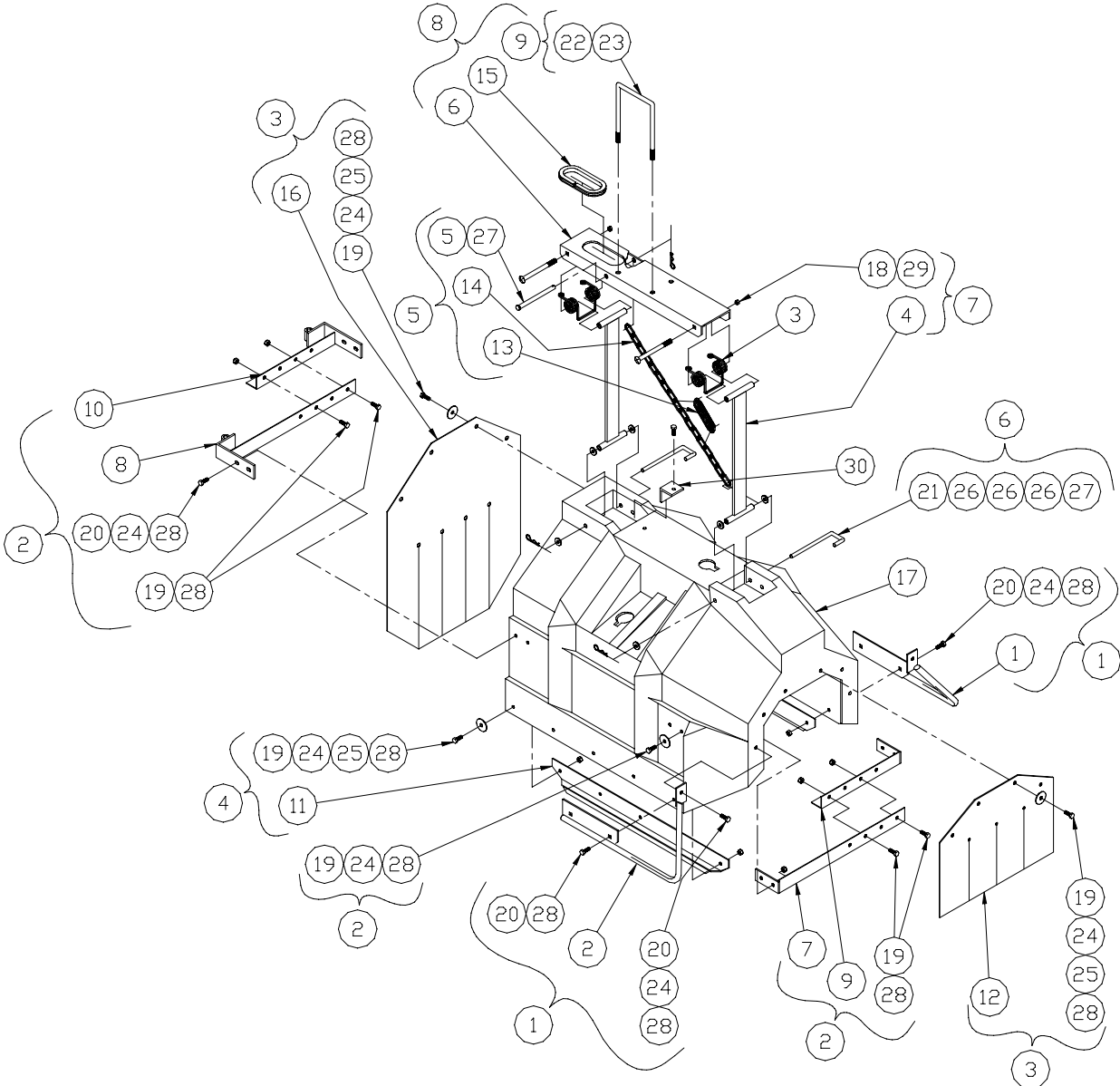
# CONSERVATION SPRAY-HOOD™

## Description: CONSERVATION SPRAY-HOOD™ Assembly Breakdown

Item#	Part #	Description	Quantity
1	001047	Lift Rod, LH 14" Hood	1
	000914	Lift Rod, LH 20", 28" Hood	
2	001048	Lift Rod, RH 14" Hood	1
	000913	Lift Rod, RH 20", 28" Hood	
3	001068	Spring, Torsion Bar Return	2
4	001238	Swing Arm, Heavy JD	2
5	PCL-038-450-5	Pin, 3/8 x 4 1/4 Gr 5 Zinc	1
6	9000-0001	Bracket, Hood Support Channel	1
7	9000-0050	Spreader, 10" Right Front	1
	9000-0007	Spreader, 16" Right Front	
8	9000-0050R	Spreader, 10" Right Rear	1
	9000-0007R	Spreader, 16" Right Rear	
9	9000-0008	Spreader, 10" Left Front	1
	9000-0009	Spreader, 18" Left Front	
10	9000-0008R	Spreader, 10" Left Rear	1
	9000-0009R	Spreader, 18" Left Rear	
11	9000-0011	Skid, Wear Slide (1) 001245	2
12	9000-0017	Curtain, Front 14" Hood	1
	9000-0013	Curtain, Front 20" Hood	
	9000-0014	Curtain, Front 28" Hood	
13	9000-0024	Spring, 4" (P/N 1000493-CAP)	1
14	9000-0027	Chain, 2/0 Pass 20 Lnk 18" PC	
15	9000-0055	Guard, Hose Guard, SD1205A	
16	9000-0061	Curtain, Rear 14" Hood	1
	9000-41	Curtain, Rear 20" Hood	
	9000-39R	Curtain, Rear 28" Hood	
17	9000-3R-14	Hood, 14" Redball, Between the Row	1
	9000-3R-SM	Hood, 20" Redball, Between the Row	
	9000-3R	Hood, 28" Redball, Between the Row	
18	BC-031-450-5	Bolt, 5/16-18 x 4 1/2 Carriage Gr 5	2
19	BH-025-075-2	Bolt, 1/4 x 3/4 Hex Gr 2	
20	BH-025-100-2	Bolt; 1/4 x 1 Hex. Gr. 2	
21	BJ-031-600	Pin; 5/16 x 6, J-Pin Hood	2
22	BU038-400-500	U-Bolt; 3/8 x 4 x 5 Sq.	2
23	LN-038-NI	Lock Nut; 3/8 Nylon Insert	4
24	FE-025	Fender Washer; 1/4	
25	FW-025	Flat Washer; 1/4	
26	FW-031	Flat Washer; 5/16	6
27	HPC 216	Hitch Pin Clip; Channel Pin	3
28	LN-025-NI	Lock Nut; 1/4 Nylon Insert	
29	LN-031-NI	Lock Nut; 5/16 Nylon Insert	2
30	000854	Angle; Hood Stop	1

# CONSERVATION SPRAY-HOOD™

Description: CONSERVATION SPRAY-HOOD™ HOOD KITS



# CONSERVATION SPRAY-HOOD™

## Description: CONSERVATION SPRAY-HOOD™ HOOD KITS

Item#	Part #	Description
1	9000-0096	20" & 28" Lift Rod Kit - Includes - 1, 2, 20, 24,28
	9000-0097	14" Lift Rod Kit; Includes - 1, 2, 20, 24, 28
2	9020-0014	14" Knock Down Kit; Includes - 7, 8, 9, 10, 19, 20, 24, 28
	9020-0020	20" Knock Down Kit; Includes - 7, 8, 9, 10, 19, 20, 24, 28
	9020-0028	28" Knock Down Kit; Includes - 7, 8, 9, 10, 19, 20, 24, 28
3	9000-0090	14" Wind Curtain Kit; Includes - 12, 16, 19, 24, 25, 28
	9000-0080	20" Wind Curtain Kit; Includes - 12, 16, 19, 24, 25, 28
	9000-0081	28" Wind Curtain Kit; Includes - 12, 16, 19, 24, 25, 28
4	9000-0089	Wear Skid Kit; Includes - 11, 19, 20, 24, 25
5	9000-0088	Chain/Spring Kit; Includes - 5, 13, 14, 27
6	9000-0087	J-Pin Kit; Includes - 21, 26, 27
7	9000-0086	Swing Arm Kit; Includes - 4, 18, 29
8	9000-0085	Hood Bracket Kit; Includes - 6, 15, 22, 23
9	9000-0162	U-Bolt Kit; Includes - 22, 23

**Note:** Complete Hood Kit

9000-1400\* - Spray Hood 14"

9000-2000\* - Spray Hood 20"

9000-2800\* - Spray Hood 28"

9000-3600\* - Spray Hood 36"

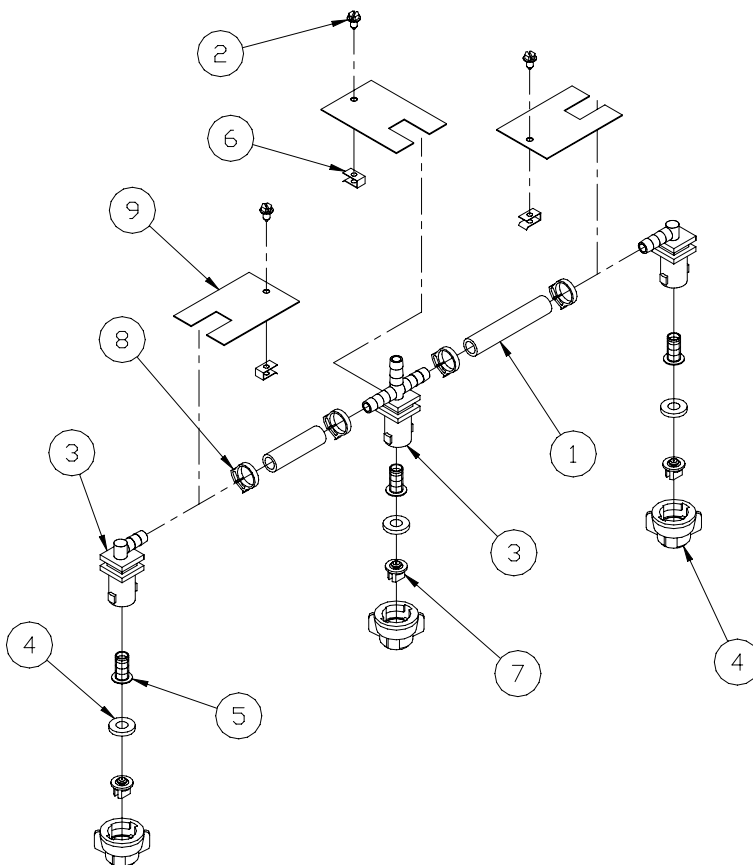
9000-4600\* - Spray Hood 46"

\* Specify Color

For Corn or Milo Applications, Add "CM" after the color.

# CONSERVATION SPRAY-HOOD™

## Description: CONSERVATION SPRAY-HOOD™ Standard Plumbing Assembly Breakdown



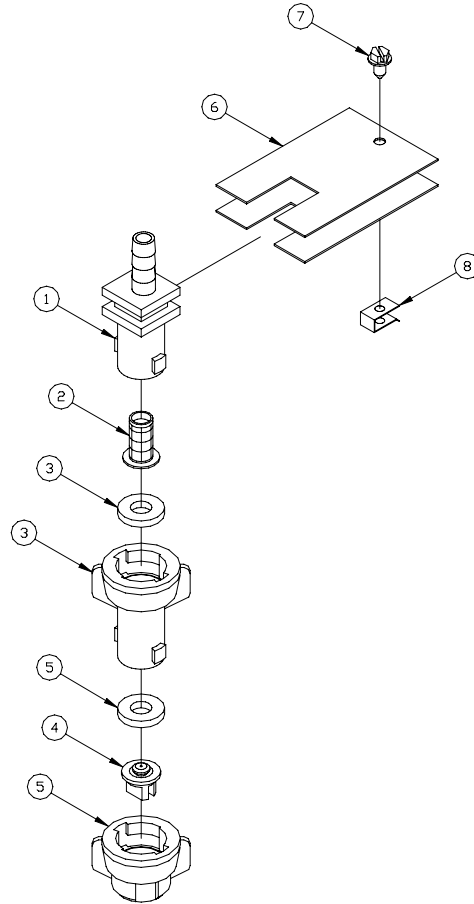
Item#	Part #	Description	Quantity
1	000612	Hose; 3/8" 150# EPDM, L85	
2*	1008KV	Screw; #10 x 1/2 Self Tap, S.S.	
3	413101	Hose Shank; 3/8 Straight (CPV009)	1
	413111	Ell, Hose Shank, 3/8	2
	413131	Hose Shank, 3/8 Cross	1
4	402900-1	Cap & Gasket, Qt Black	
5	4193A-PP-5-50SS	Strainer, Ck Value, 5 PSI, 50 M	1
	4193A-PP-5-100S	Strainer, Ck Value, 5 PSI, 100 M	3
6*	9030-0042	Nut, Tinneman	
7	DG8004VS	Tip, Drift Guard, 14" Hood	1
	DG95015EVS	Tip, Drift Guard, 20" & 28" Hood	3
8	F	Clamp, Speedy Fits 3/8" Hose	
9*	002989	Lock; .030 SS Hood Nozzle	

\* - Included in Nozzle Lock Kit 9000-0098

**Notes:** Qty's for items 1, 2, 4, 6, 8, & 9 Vary With Hood Sizes  
Specify color where applicable  
Nozzle setup shown is for 20" & 28" hoods.

# CONSERVATION SPRAY-HOOD™

**Description: Redball CONSERVATION SPRAY-HOOD™  
Turbo Spray Nozzle Assembly Breakdown**



Item#	Part #	Description	Quantity
1	413101	Shank; Hose 3/8" HB Single	1
2	4193A-PP-5-100SS	Strainer, Ck Valve, 5 LB, 100 Mesh	1
3	4193A-PP-5-50SS	Strainer, CK Valve, 5 LB, 50 Mesh	1
	TDXLV-015	Venturi; Low Pressure 015 Tur (14" Hood)	
	TDXLV-02	Venturi; Low Pressure 02 Tur (20" Hood)	
	TDXLV-03	Venturi; Low Pressure 03 Tur (28" Hood)	
4	TP8003EVS	Visoflo TeeJet Tip (14" Hood)	1
	TP9504EVS	Tip; TeeJet (20" Hood)	
	TP9506EVS	Tip; Visi Flo, 95 Deg. Even (28" Hood)	
5	25612-1-NYR	Cap & Gasket	1
6	002989	Lock; Hood Nozzle (Stainless)	2
7	1008KV	#10 x 1/2" Self Tap Screw	1
8	9030-0042	Tinneman Clip	1

**INCLUDED IN COMPLETE HOOD KITS:**

9000-1400CM 14" Hood  
 9000-2000CM 20" Hood  
 9000-2800CM 28" Hood

# CONSERVATION SPRAY-HOOD™

## DG TeeJet® Drift Guard Even Flat Spray Tips with VisiFlo® Color Coding

VisiFlo NOZZLE NO. SCREEN SIZE	Liquid Pressure in PSI	Capacity 1 Nozzle In GPM	GPA - 30" Nozzle Spacing			GPA - 40" Nozzle Spacing		
			3 MPH	4 MPH	5 MPH	3 MPH	4 MPH	5 MPH
<b>TIP COLOR</b>								
DG95015EVS	30	0.13	8.6	6.4	5.1	6.4	4.8	3.9
Color: Green	40	0.15	9.9	7.4	5.9	7.4	5.6	4.5
100 Mesh	50	0.17	11.2	8.4	6.7	8.4	6.3	5.0
<hr/>								
DG8004VS	30	0.35	----	26	21	----	13.0	10.4
Color: Red	40	0.37	----	27	22	----	13.7	11.0
50 Mesh	50	0.40	----	30	24	----	14.9	11.9

### Greenleaf TurboDrop® Nozzle Tabulations

This is the recommended spray tip nozzle that is to be used for applying Roundup® herbicide in corn and milo fields.

Greenleaf TurboDrop® large droplet, optimal coverage spray nozzles consist of two separate components: A venturi air aspirator and an exit pattern tip. The size of the orifice in the venturi determines the flow rate of the complete assembly and is color coded in accordance with ISO nozzle color code. The pattern tip does not influence flow and is larger than the venturi orifice. The pattern tip is used only to create a spray pattern.

Complete Nozzle Tip No. Color	Liquid Pressure in PSI	Capacity 1 Nozzle in GPM	GPA (Per Nozzle) 20" Nozzle Spacing		
			4 MPH	5 MPH	-- ---
TDXLV-01	40	0.10	7.4	5.9	---
Use 02 Tip	50	0.11	8.3	6.6	---
Color: Orange	60	0.12	9.1	7.3	---
<hr/>					
TDXLV-015	40	0.15	11.1	8.9	---
Use 03 Tip	50	0.17	12.4	10	---
Color: Green	60	0.18	13.6	10.9	---
<hr/>					
TDXLV-02	40	0.20	14.8	11.9	---
Use 04 Tip	50	0.22	16.6	13.3	---
Color: Yellow	60	0.24	18.2	14.5	---
<hr/>					
TDXLV-03	40	0.30	22.3	17.8	---
Use 06 Tip	45	0.32	24.9	19.9	---
Color: Blue	50	0.33	27.3	21.8	---



### **IMPORTANT**

The minimum operating pressure for the TurboDrop® Nozzle is 40 PSI

### Off-Center Flat Spray Tips TeeJet

NOZZLE NO. SCREEN SIZE	Liquid Pressure in PSI	Capacity 1 Nozzle In GPM	"H" = 18" GPA (Per Nozzle)				"H" = 24" GPA (Per Nozzle)			
			"W" in inches	3 MPH	4 MPH	5 MPH	"W" in inches	3 MPH	4 MPH	5 MPH
OC-02	30	0.17	68	5.0	3.7	3.0	75	4.5	3.4	2.7
50 Mesh	40	0.20	70	5.5	4.2	3.4	77	5.1	3.9	3.1
	60	0.24	72	6.6	5.0	4.0	78	6.1	4.6	3.7

# CONSERATION SPRAY-HOOD™

## General Operating Guidelines

### Redball® CONSERATION SPRAY-HOOD™ Kits

As with all equipment, it is important that proper assembly has been done as per the instructions supplied. Failure to do so will result in unsatisfactory operation of this equipment.

### Hood Height Adjustment:

Hood height can be set by shortening or lengthening the chain-spring assembly supplied with each hood kit. Adjustment is quick and easy as you simply remove the pin in the channel, determine the chain length needed for the desired hood height and re-install the pin thru the channel and chain.

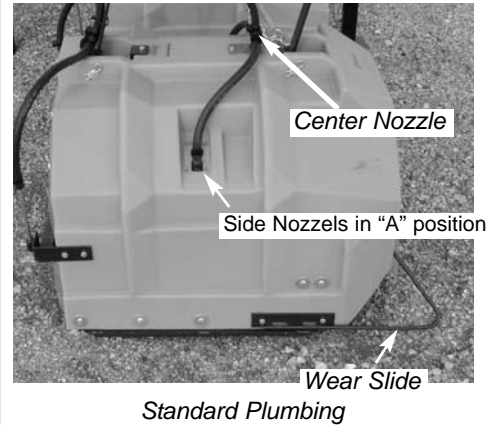
It is important that the bar is operated level from front to rear so that the hoods run level. This will assure that even wear is accumulated on the hood wear skids when they are in contact with the ground. If the hoods dig into the ground, lengthen the top linkage of the 3 point hitch to raise the front portion of the hood.

The hoods should be run in contact with the ground or as close to the ground as possible. The wear slides are used for that purpose.

### Nozzle recommendations:

TeeJet® - DG 8004VS in the 14" Hoods; or DG 95015EVS in the 20" & 28" Hood Spray Tips - Use in Cotton & Soybean Crops

The spray hoods have two side nozzles mounting ports provided and are marked as 95A or 95B. Assembly instructions provided, specify when each setting is to be used. Three DG95015 EVS spray tips are provided for the three tip configuration in each 20" and 28" hood. When the crop is small, consider using only the center nozzle. This requires that the two outer nozzles are blanked off and a single nozzle is installed in the center. The suggested single tip would be a DG9504 EVS spray tip (not included). This will provide for larger droplets and enhance crop safety. It is always important that the spraying pressure and speed limitations are adhered to as recommended in these instructions and the nozzle manufacturer's specifications.



# CONSERVATION SPRAY-HOOD™

## Greenleaf TurboDrop® Spray Nozzle Assembly Use in Corn & Milo Crops

One TurboDrop® nozzle is used only in the top center of the spray hood. This nozzle consists of two separate components: a venturi air aspirator and an exit pattern tip.



### **IMPORTANT**

*Note that the orifice in the venturi determines the flow rate and the exit tip determines the pattern. They are a matched set.*



### **IMPORTANT**

*Pump pressure recommendations should be limited to approximately **40 PSI to 50 PSI** when using the **TurboDrop® TDVC-XXX** tips. The minimum operating pressure for this tip is 40 PSI. This will limit the potential for any chemical to escape from the hood and the possibility of crop injury.*

### **Field Speed Recommendation**

It is recommended the speed of operation be maintained at 5 MPH or less.

### **Pressure Recommendation**

TeeJet® Drift Guard DG95015 EVS or DG9504 EVS approximately 30 PSI All TurboDrop® approximately 40 PSI to 50 PSI

***For corn and milo crops the TurboDrop® nozzle is recommended and is to be run at a minimum pressure of 40 PSI***

Rates charts for the above listed spray tip nozzles are in this booklet for reference. Always refer to the nozzle manufacturer's specifications for complete information.

### **Redball® Spray Monitors**

**For the best performance of your Redball® CONSERVATION SPRAY HOOD™ and Redball® Hooded Sprayer Systems, Redball® strongly suggests the use of Redball® Spray Monitors.** The Redball® Spray Monitor will visually show if one of the tips on the "Between-Row" hoods begins to plug up allowing you to verify your application rate. Be sure to follow the instructions when assembling the monitors and choosing the proper balls for use in the monitor columns in relation to the gallons per minute which is flowing through the columns in the monitor. When assembling the Redball® Spray Monitor, the red glass balls are to be used in most cases. If in question, check the flow rate. Please observe the operating instructions enclosed with the Redball® Spray Monitor.



### **NOTE**

The Redball® Spray Monitor is a flow indicator, it is not a flow regulator.

# CONSERVATION SPRAY-HOOD™

## Spray Hood Calibration

The instructions for the calibration of the spray hood offers you the required information to perform this task. For proper application it is important that you do this to assure that the correct output volume comes from the spray nozzles.



### **NOTE**

For best results, adhere to spraying pressure, travel speeds and nozzle placement.

### **Calibration Instructions**

If you change the recommended nozzle configuration, follow steps 1 thru 5. Deviating from recommended nozzles jeopardizes sprayer performance. Make every attempt to work with these recommendations before changing nozzles. If not start at step 6 and refer to steps 1 thru 5 for reference.

1. Refer to Chemical Manufacturer's Label and Record:
  - Nozzle recommendations
  - GPA (Gallons Per Acre of Carrier and Chemical)

GPA = \_\_\_\_\_

2. Select and Measure Ground Speed:  
Drive machine a measured distance (not less than 300 feet) from start to finish at planned operating speed, recording travel time in seconds. In field conditions, perform this 3 times with spray tank 50% full.

$$\text{MPH} = \frac{\text{Distance in feet} \times 60}{\text{Time in seconds} \times 88}$$

MPH = \_\_\_\_\_

3. **Determine the Effective Sprayed Width (W):**

Band Spraying:  $W = \frac{\text{Band Width in inches}}{\text{\# Nozzles Per Band}}$

W = \_\_\_\_\_

4. **Determine Flow Rate:**

GPM (Gallons Per Minute)

$$\text{GPM} = \frac{\text{GPA} \times \text{MPH} \times \text{W (inches)}}{5940}$$

GPM = \_\_\_\_\_

# CONSERVATION SPRAY-HOOD™

## 5. **Selecting New Nozzles:**

Refer to spray manufacturer's catalog for nozzle type and size.

- Suitable for applications
- That will provide desired flow (GPM) at recommended pressure.

## 6. **Verifying Nozzles Currently on the Sprayer:**

Refer to spray nozzle manufacturer's specifications to verify proper GPM and pressure ratings. For consistent spray application, use the same nozzle configuration throughout the sprayer as suggested on Page 1.

## 7. **Verify Spray Output:**

With sprayer operating at desired pressure, collect flow from nozzle, checking actual to expected output (GPM). Two or more nozzles should be verified. If necessary, adjust pressure slightly to achieve optimum output. When checking nozzles already on the sprayer, replace if two or more exceed the desired flow rate by 10% or more.

## 8. **Set Up Spray Bar:**

Obtain correct nozzle height. (See nozzle or chemical manufacturer's specifications.)

- Bar Height = Distance from the nozzle to target
- Nozzle Spacing = Depending on nozzle type, set spacing for optimum coverage.

## 9. **Determine Amount of Chemical to Add to Tank:**

Gallons =

$$\frac{\text{Tank capacity in gallons} \times \text{Recommended Chemical Rate oz/acre}}{\text{GPA} \times 128}$$

## 10. **Determine Number of Acres Possible to Treat Per Tank:**

$$\text{Acres} = \frac{\text{Tank capacity gallons} \times \text{Row Width inches}}{\text{GPA} \times \text{Band Width in inches}}$$

GAL = \_\_\_\_\_

Acres = \_\_\_\_\_



### **NOTE**

Pressure adjustment will affect droplet sizes, impacting drift and coverage. When changing speeds, pressures, configuration, nozzles or formulations, recalibrate the system.

# CONSERVATION SPRAY-HOOD™

## Application Guideline Summary

- Redball® Spray Monitor functions as flow indicator only, not as flow regulator.
- Be sure that the front and rear wear wind curtain is in place and in good condition.
- Adjust the hood to desired height for optimum chemical coverage.
- Always read and follow chemical companies recommended application procedures and rates.
- Follow the Nozzle Manufacturer's recommended nozzle pressure rate for best performance.
- Application speed not to exceed 5 MPH.

## Here are some helpful hints to follow to achieve top performance with your Redball® Hooded Sprayer and Spray Hoods.

- Redball® Spray Monitors are recommended for use with the spray hoods. It is important that they be used to detect plugged spray tips.
- Remember, the spray monitor is a flow indicator not a flow regulator.
- When equipment is not in use, cover the monitors with a dark plastic or other sun protective material if equipment is not stored inside. This will help prevent the poly body of the monitor from premature darkening.

The balls in the Redball® Spray Monitor for the outside spray hoods may run at a lower level because the end hoods have a lower flow rate. Establish the level these balls run at when calibrating the spray bar and check that the nozzles are flowing properly. If the balls drop from that level, check for a plugged nozzle.



### **IMPORTANT**

Always calibrate your sprayer to determine for certain that the sprayer is giving the proper volume from the spray nozzles. Please follow the calibration instructions provided in this booklet.

# CONSERVATION SPRAY-HOOD™

## For Cotton & Soybean Crops

The recommended pump pressure for spraying under the hood is 20 PSI for the *DG95015EVS* and *DG9504EVS* and *DG9505EVS* even flat tips. Please maintain pressures no higher than this to prevent any potential drift out of the hood.

## For Corn & Milo Crops

The recommended pump pressure for spraying under the hood is 40 PSI for the *TurboDrop*®. Please maintain pressures no lower than this to obtain proper distribution of spray.

- With some chemicals, when using the Redball® Conservation Spray-Hood™ in corn and milo, a single TurboDrop® nozzle is recommended and *must be used at 40 PSI*.



### **IMPORTANT**

Always calibrate your sprayer to determine for certain that the sprayer is giving the proper volume from the spray nozzles. Please follow the calibration instructions provided in this booklet.

- The maximum suggested field operating speed for the hooded sprayer is 5 MPH. Maintaining speeds at 5 MPH or lower than this limits the potential of drift and the possibility of getting onto the plant row with the equipment.
- Be sure that the toolbar is operated in a level position front to rear. This will ensure that the spray hoods run level for proper application and even wear on the hood wear slides.
- Spray hood swing arms, when toolbar height is properly set, should be angled back. This allows the hood to slide easily and prevents it from jumping.

# CONSERVATION SPRAY-HOOD™

- Inspect the hood wear slides periodically and replace the slides before they wear the poly hoods.
- The design of the pivot bolts in the channel that holds the hood and of the pins on the hood are to remain stationary. Check the fittings during the season for excessive side motion and replace pivot bolts when worn.
- When replacing lower swing arm pivot pins in the hood, be sure to install the wear washer between the hood and the swing arm. Failure to do this will cause wear directly to the poly hood.
- Always operate the hoods with front and rear wind curtains in place. Replace them as wear or damage occurs.
- Spray hoods should always be used with the front and rear knockdown / spreader bars in place. The front bar bends over the weeds for better application of chemical. The two bars together provide the hood with width adjustment settings.
- On wing model hooded sprayers, fold down the wings when the bar is stored or parked. This will limit premature twist and stress on the swing arms, curtains, and mounting channels.
- The spray hoods have been provided with lift or divider rods. The divider rods are for optional use and are used primarily with large weeds. The divider rods may be bent to run closer towards the row if you have large weeds to pull under the hood. Exercise care when using these to not drag the planted crop into the hood.
- If needed, to keep the spray hoods from getting onto the row, mount a stabilizing coulter to the tool bar. It will help hold the spray hoods in the correct position.
- Always read and follow label directions provided with chemicals being used.

## **DISCLAIMER**

Redball, LLC does not claim any responsibility of application rates, type of spray tips used or any equipment that can cause crop injury, ineffectiveness of chemical or any other unintended damages because of weather conditions or application which are all beyond the control of Redball, LLC or the seller. All such risks shall be assumed by the buyer.

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**NOTES:**

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## NEW PRODUCT WARRANTY

Redball, LLC warrants each new Redball® product to be free under normal use and service from defects in workmanship and materials for a period of one (1) year from the date of first use. This warranty shall be fulfilled by the repairing or replacing free of charge any part that shows evidence of defect or improper workmanship, provided the part is returned to Redball, LLC within thirty (30) days of the date that such defect or improper workmanship is discovered, or should have been discovered. Parts shall be returned through the selling representative and transportation charges must be prepaid by the buyer. No other express warranty is given and no confirmation, by words or action, shall constitute a warranty.

Redball, LLC limits its warranty to only those products manufactured by Redball, LLC and does not warrant any part or component not manufactured by Redball, LLC, such parts or components are subject to their manufacturer's warranties, if any. This warranty shall not apply to parts which are subjected to accident, alteration, or negligent repair or use.

Redball, LLC will not be responsible for repairs or replacements which are necessitated, in whole or part, by the use of parts not manufactured by or obtainable from Redball, LLC.

Customer acknowledges that he is not relying on Redball, LLC's skill or judgment to select or furnish goods for any particular purpose and that there are no warranties which are not contained in this agreement.

In no event shall Redball, LLC, contract or warranty liability exceed the purchase price of the product.

REDBALL, LLC SHALL NOT BE LIABLE FOR DAMAGES, INCLUDING SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN CONNECTION WITH THE PERFORMANCE OF THE EQUIPMENT OR ITS USE BY CUSTOMER, AND REDBALL, LLC SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN CONNECTION WITH REDBALL, LLC'S FAILURE TO PERFORM ITS OBLIGATIONS HEREUNDER. REDBALL, LLC'S ENTIRE LIABILITY AND THE CUSTOMER'S EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF PARTS COVERED UNDER THIS WARRANTY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED.



would like to thank you for purchasing this Redball®  
CONSERVATION SPRAY-HOOD™. We are proud of our  
quality and believe this product will exceed your expectations!

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