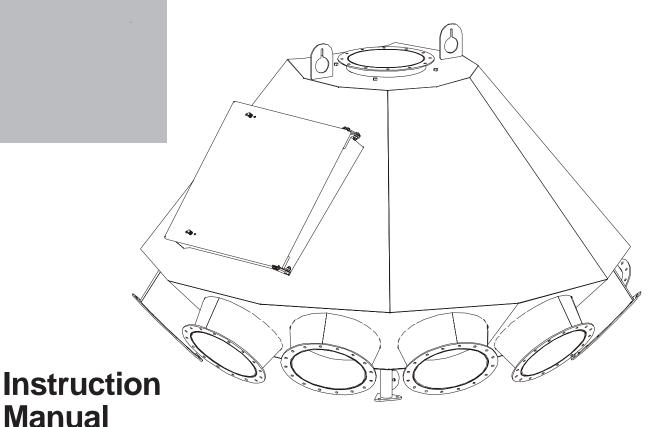
# Farm/Commercial Distributor



Manual PNEG-1385

DATE: 10-16-2006



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# SAFETY GUIDELINES

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting *personal safety* and *preventing equipment problems*. It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidelines. To help you recognize this information, we use the symbols that are defined below. Please read the manual and pay attention to these sections. Failure to read this manual and it's safety instructions is a misuse of the equipment and may lead to serious injury or death.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**CAUTION** 

**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

**NOTE** 

**NOTE** indicates information about the equipment that you should pay special attention to.

#### **FOLLOW SAFETY INSTRUCTIONS**

Carefully read all safety messages in this manual and on your machine safety signs. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machinery in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.

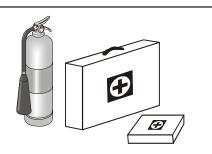


### PREPARE FOR EMERGENCIES

Be prepared if fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



#### WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Safety glasses should be worn at all times to protect eyes from debris.

Wear gloves to protect your hands from sharp edges on plastic or steel parts.

A respirator may be needed to help prevent breathing potentially toxic fumes and dust.

Wear hard hat and steel toe boots to help protect your head and toes from falling debris.

Eye Protection

Gloves

Steel Toe Boots

Respirator

Hard Hat











# Introduction

Thank you for choosing this product. It is designed to give excellent performance and service for many years.

This manual covers general information on the distributor installation. Due to the wide variety of field conditions we cannot cover every aspect of installation. We offer one method for installing equipment but, rely on your qualified contractor's experience and techniques. Some conditions and surroundings do not allow certain practices during the installation of equipment. We can not be responsible for the installation of the distributor and accessories. We encourage anyone installing, or maintaining this equipment to thoroughly read this manual before proceeding.

The company is the vendor of the distributor and certain of its optional accessories only, and does not assume responsibility for the installation. The installation recommendations contained within this manual are for consideration only.

READ THIS MANUAL carefully to learn how to properly use and install this equipment. Failure to do so could result in personal injury or equipment damage.

INSPECT the shipment immediately upon arrival. The Customer is responsible for ensuring that all quantities are correct. Report any damage or shortages by recording a detailed description on the Bill of Lading to justify the Customer's claim from the Transport Firm. Our responsibility for damage to the equipment ends with acceptance by the delivering carrier. Save all paperwork and documentation furnished with any of the equipment.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your equipment and should be easily accessible when needed.

A WARRANTY is provided as part of the company's support program for customers who use and maintain their equipment as described in the manual. The warranty is explained on the warranty page located on the inside back cover of this manual.

This warranty provides you the assurance that the company will back its products where defects appear within the warranty period. Should the equipment be abused, or modified to change its performance beyond the factory specifications, the warranty will become void and field improvements may be denied.

### **NOTE**

All information, illustrations, photos, and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

# Installation Notes

**A** DANGER

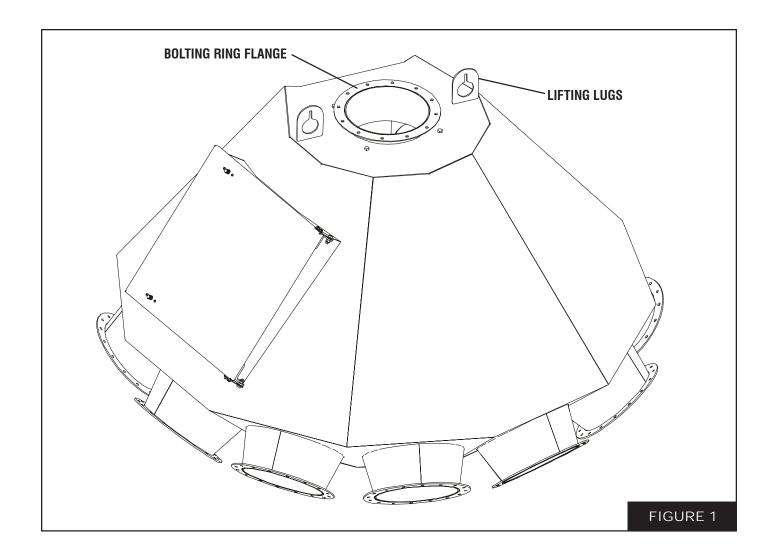
If you must get inside of Distributor, turn **OFF** and **LOCK OUT** all power sources. **DO NOT** operate the Distributor while inside.

**A** DANGER

Crush Hazard! Lifting lugs are to be used for placement only. **DO NOT** use lifting lugs for structural support. (See Figure 1)

**A**CAUTION

DO NOT use a clamp band when attaching the down spout to the inlet flange. A bolted connection is required at this point. (See Figure 1.)



# Maintenance

### REPLACING THE WEAR LINER

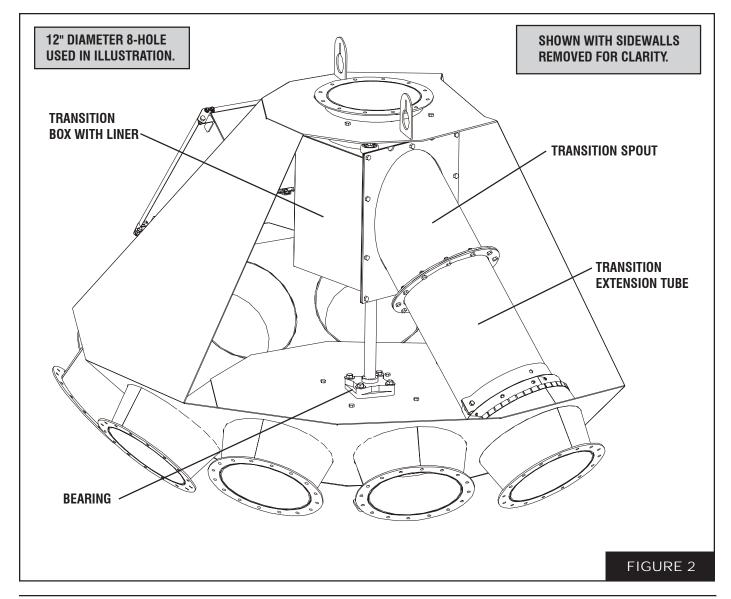
Position the spouting near the door. Remove the transition extension tube (See Figure 2) Remove the transition spout (See Figure 2). Reverse the transition box which will allow access to the hardware holding the liner in (See Figure 3). Replace the old liner with the new liner. (See Figure 4) Replace the transition spout and transition extension tube.

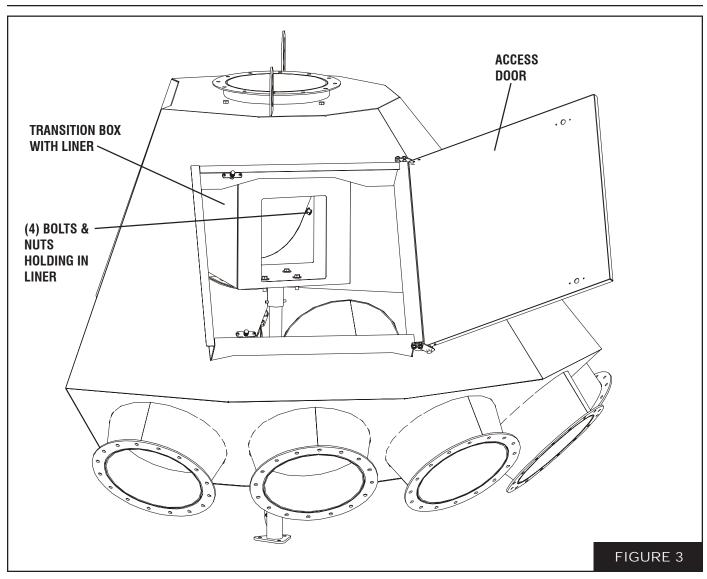
### **Replacement Liner Numbers:**

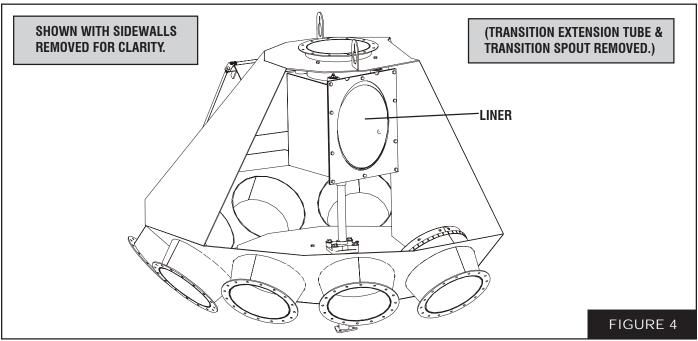
8" - DFB0183, 10" - DFB0051, 12" - DFB0121

### **GREASING THE BEARING**

The bearing is greased at the factory and is ready for operation. Lubricate annually using a No. 2 Lithium based grease or equivalent. (See Figure 2)







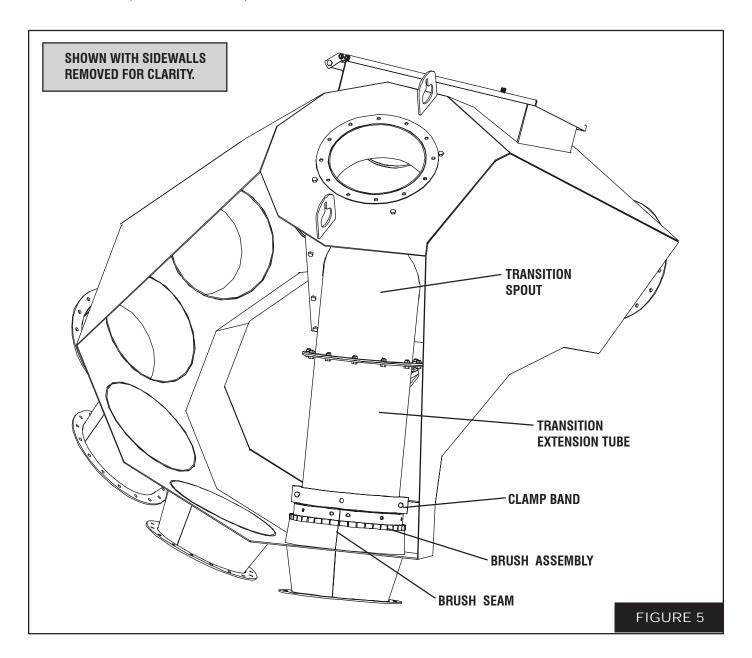
### REPLACING THE BRUSH MOUNT ASSEMBLY

Position the spouting near the door. Remove the transition extension tube (See Figure 5). Loosen the clamp band and remove old brush assembly from the transition extension tube. Replace the new brush assembly onto transition extension tube and tighten in place using the clamp band. Replace the transition extension tube/brush assembly.

**NOTE:** Make sure the seam of the brush assembly is facing towards the top as shown in Fig 5. The brush bristles should be somewhat snug against the spout wall. Operate the spout to all outlets to insure proper alignment and clearance.

### **Replacement Brush Assembly Numbers:**

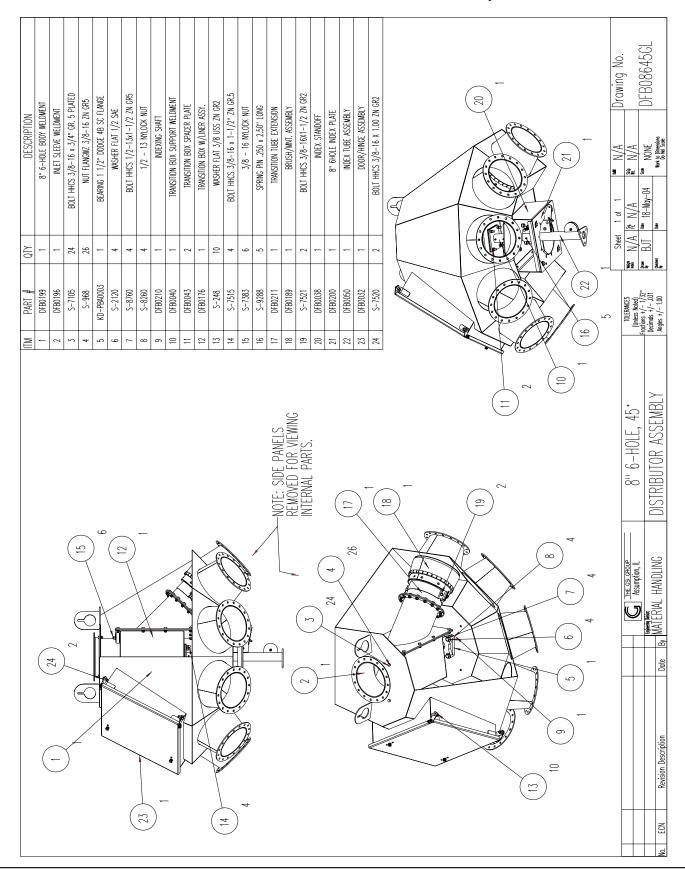
8" - DFB0189, 10" - DFB0060, 12" - DFB0127



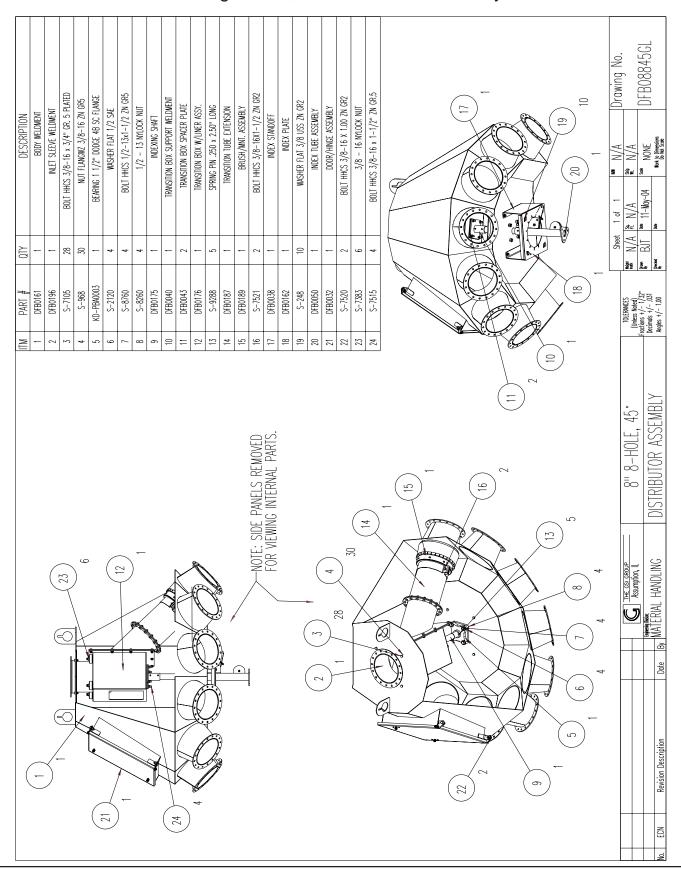
# Parts List

PAGE #	PART #	DESCRIPTION
12.	DFB08645GL	- 8" 6 Hole, 45° Distributor Assembly
13.	DFB08845GL	- 8" 8 Hole, 45° Distributor Assembly
14.	DFB081045GL	- 8" 10 Hole, 45° Distributor Assembly
15.	DFB10645GL	- 10" 6 Hole, 45° Distributor Assembly - Drawing A
16.	DFB10645GL	- 10" 6 Hole, 45° Distributor Assembly - Drawing B
17.	DFB10845GL	- 10" 8 Hole, 45° Distributor Assembly
18.	DFB101045GL	- 10" 10 Hole, 45° Distributor Assembly
19.	DFB12445GL	- 12" 4 Hole, 45° Distributor Assembly
20.	DFB12645GL	- 12" 6 Hole, 45° Distributor Assembly
21.	DFB12845GL	- 12" 8 Hole, 45° Distributor Assembly
22.	DFB121045GL	- 12" 10 Hole, 45° Distributor Assembly
23.	DFB14445GL	- 14" 4 Hole, 45° Distributor Assembly
24.	DFB14645GL	- 14" 6 Hole, 45° Distributor Assembly
25.	DFB14845GL	- 14" 8 Hole, 45° Distributor Assembly

### DFB08645GL 8" Six Hole, 45° Distributor Assembly



### DFB08845GL 8" Eight Hole, 45° Distributor Assembly

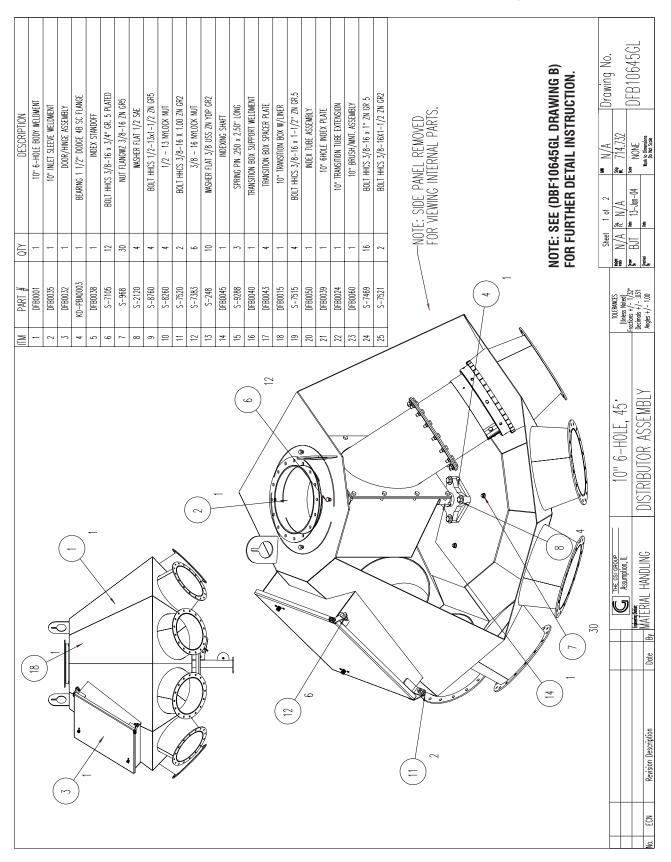


### DFB081045GL

### 8" Ten Hole, 45° Distributor Assembly

I # QTY DESCRIPTION	INFE.	S-7105 28 BOLT HHCS 3/8-16 x 3/4" GR. 5 PLATED	26	1 BEARIN	S-2120 4 WASHER FLAT 1/2 SAE	S-8760 4 BOLT HHCS 1/2-13x1-1/2 ZN GR5	S-8260 4 1/2 - 13 NYLOCK NUT	DFB0226 1 INDEXING SHAFT	DFB0040 1 TRANSITION BOX SUPPORT WELDMENT	DFB0043 2 TRANSITION BOX SPACER PLATE	DFB0176 1 TRANSITION BOX W/LINER ASSY.	S-9288 5 SPRING PIN .250 x 2.50" LONG	227 1 TRANSITION TUBE EXTENSION	DFB0189 1 BRUSH/MNT, ASSEMBLY	S-7521 2 BOLT HHCS 3/8-16X1-1/2 2N GR2	DFB0038 1 INDEX STANDOFF	DFB0082 1 10" 10-HOLE INDEX PLATE	S-248 6 WASHER FLAT 3/8 USS ZN GR2	DFB0050 1 INDEX TUBE ASSEMBLY	-	2 BOLT HH	Ç	4 BOLT HHCS	19 Sinee 1 of 1 WA R NA NA NA R NA NA NA R NA	7.27 \$
ITM PART #	2 DFBI	3 S-		5 KD-PBA0003	;-S 9	S-8	8 S-8	9 DFB	10 DFB	11 DFB	12 DFB	13 S-6	14 DFB0227	15 DFB	16 S-	17 DFB	18 DFBI	-S -61	20 DFB					24 S-75  100.tew(55)	Angles +/- 1,32 Decimals +/031 Angles +/- 1.00
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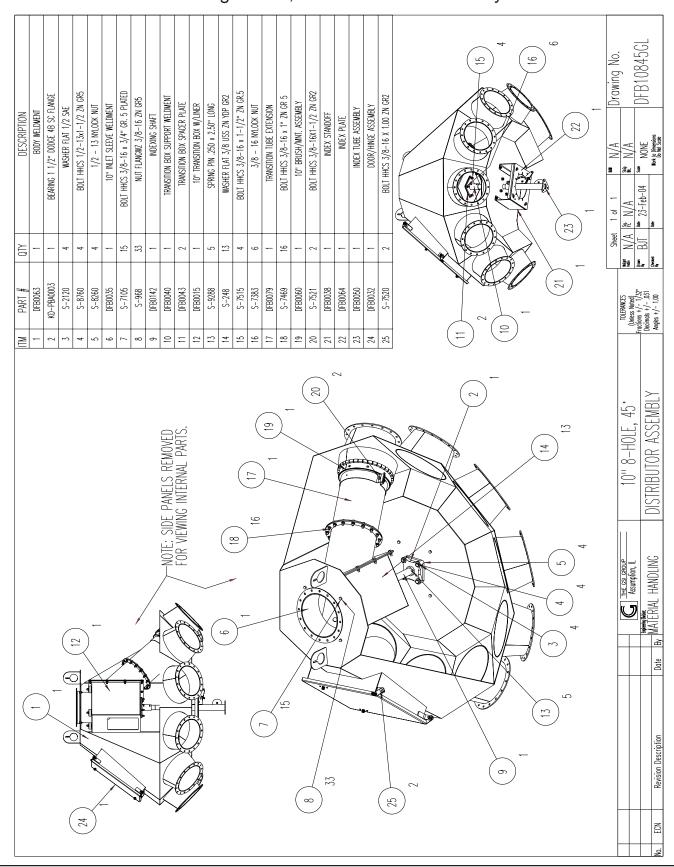
# DFB10645GL 10" Six Hole, 45° Distributor Assembly - Drawing A



# $DFB10645GL \\ 10" \ Six \ Hole, \ 45^{\circ} \ Distributor \ Assembly \ - \ Drawing \ B$

DESCRIPTION	DY WELDMENT	WELDMENT	: ASSEMBLY	4B SC FLANGE	INDEX STANDOFF	t" GR. 5 PLATED	8-16 ZN GR5	T 1/2 SAE	x1-1/2 ZN GR5	MLOCK NUT	x 1.00 ZN GR2	YLOCK NUT	S ZN YDP GRZ	S SHAFT	2.50" LONG	ORT WELDMENT	ACER PLATE	DX W/LINER	-1/2" ZN GR.5	ASSEMBLY	DEX PLATE	EXTENSION	T. ASSEMBLY	x 1" ZN GR 5	x1-1/2 ZN GR2	Drawing No.
DESCR	10" 6-HOLE BODY WELDMENT	10" INLET SLEEVE WELDMENT	DOOR/HINGE ASSEMBLY	BEARING 1 1/2" DODGE 4B SC FLANGE	INDEX S	BOLT HHCS 3/8-16 x 3/4" GR. 5 PLATED	NUT FLANGWZ 3/8-16 ZN GR5	WASHER FLAT 1/2 SAE	BOLT HHCS 1/2-13x1-1/2 ZN GR5	1/2 - 13 NYLOCK NUT	BOLT HHCS 3/8-16 X 1.00 ZN GR2	3/8 - 16 NYLOCK NUT	WASHER FLAT 3/8 USS ZN YDP GR2	INDEXING SHAFT	SPRING PIN ,250 x 2,50" LONG	TRANSITION BOX SUPPORT WELDMENT	TRANSITION BOX SPACER PLATE	10" TRANSITION BOX W/LINER	BOLT HHCS 3/8-16 x 1-1/2" ZN GR.5	INDEX TUBE ASSEMBLY	10" 6HOLE INDEX PLATE	10" TRANSITION TUBE EXTENSION	10" BRUSH/MNT. ASSEMBLY	BOLT HHCS 3/8-16 x 1" ZN GR 5	BOLT HHCS 3/8-16X1-1/2 ZN GR2	2 of 2 RP N/A Deer 16-Jon-0
VIIO	-	-	-	-	-	12	30	4	4	4	2	9	10	-	3	-	4	-	4	-	-	-	-	16	2	heet T
PART #	DFB0001	DFB0035	DFB0032	KD-PBA0003	DFB0038	S-7105	S-968	S-2120	S-8760	S-8260	S-7520	S-7383	S-248	DFB0045	S-9288	DFB0040	DFB0043	DFB0015	S-7515	DFB0050	DFB0039	DFB0024	DFB0060	S-7469	S-7521	10. EPANCE (Unless Nebted) Fractions 4 /- 1/32" Marks 4 /- 100
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								(19)	<i>)</i>		(	(13)														
																										(15)

### DFB10845GL 10" Eight Hole, 45° Distributor Assembly



### DFB101045GL

### 10" Ten Hole, 45° Distributor Assembly

DESCRIPTION	BODY WELDMENT	BEARING 1 1/2" DODGE 4B SC FLANGE	WASHER FLAT 1/2 SAE	BOLT HHCS 1/2-13x1-1/2 ZN GR5	1/2 - 13 NYLOCK NUT	10" INLET SLEEVE WELDMENT	BOLT HHCS 3/8-16 x 3/4" GR. 5 PLATED	NUT FLANGWZ 3/8-16 ZN GR5	INDEXING SHAFT	TRANSITION BOX SUPPORT WELDMENT	TRANSTION BOX SPACER PLATE	SPRING PIN .250 x 2.50" LONG	10" TRANSITION BOX W/LINER	WASHER FLAT 3/8 USS ZN GRZ	BOLT HHCS 3/8-16 x 1-1/2" ZN GR.5	3/8 - 16 NYLOCK NUT	TRANSITION TUBE EXTENSION	10" BRUSH/MNT, ASSEMBLY	BOLT HHCS 3/8-16X1-1/2 ZN GR2	INDEX STANDOFF	10" 10-HOLE INDEX PLATE	INDEX TUBE ASSEMBLY	DOOR/HINGE ASSEMBLY	BOLT HHCS 3/8-16 X 1.00 ZN GR2	Speed 1 of 1 NO NO	1 % N/A % N/
VII)	-	-	4	4	4	_	78	30	-	-	2	2	-	10	4	9	-	-	2	_	_	_	-	2	_	
PART #	DFB0143	KD-PBA0003	S-2120	S-8760	S-8260	DFB0035	S-7105	S-968	DFB0144	DFB0040	DFB0043	S-9288	DFB0015	S-248	S-7515	S-7383	DFB0093	DFB0060	S-7521	DFB0038	DFB0082	DFB0050	DFB0032	S-7520		TOLERANCES (Unless Noted) Fractions +/- 1/32" Decimals +/- ,031
MI	-	2 k	-	4	5	9	7	8	6	01	=	12	13	4	15	91	17	18	19	70	21	77	23	24		To (Unite Fractions)
						-						1					/	ANOTE: SIDE PANELS	REMOVED FOR	ONEWING INTERNAL	7 ) PARTS.				2	= 10" 10-HOLE, 45°

### DFB12445GL 12" Four Hole, 45° Distributor Assembly

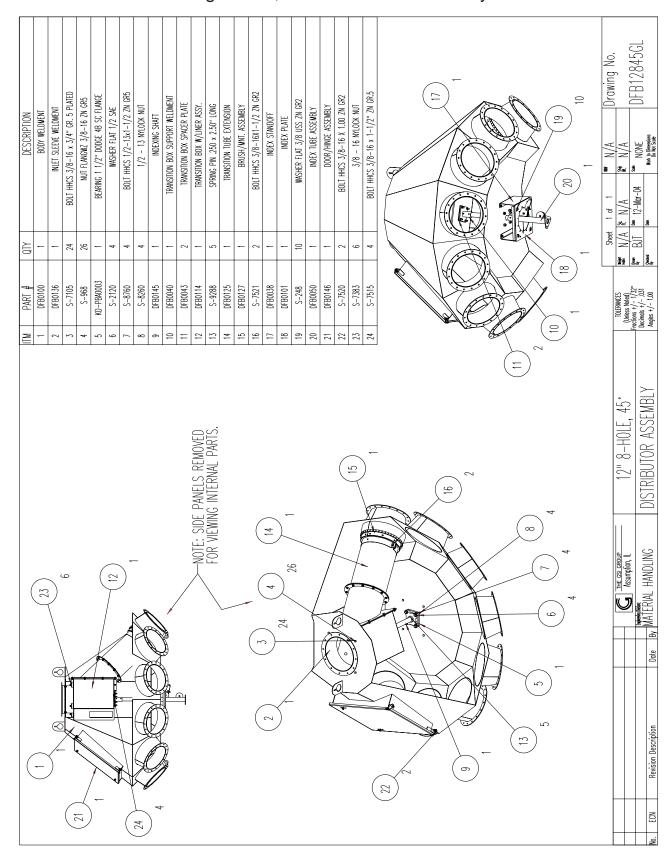
ITM   PART # QTY   DESCRIPTION	1	2 DFB0136 1 INLET SLEEVE WELDMENT	3 S-7105 20 BOLT HHCS 3/8-16 x 3/4" GR. 5 PLATED	4 S-968 22 NUT FLANCWZ 3/8-16 ZN GR5	5 KD-PBA0003 1 BEARING 1 1/2" D005E 4B SC FLANGE	6 S-2120 4 WASHER FLAT 1/2 SAE	7 S-8760 4 BOLT HHCS 1/2-13x1-1/2 ZN GR5	8 S-8260 4 1/2 - 13 NYLOCK NUT	9 DFB0158 1 INDEXING SHAFT	10 DFB0040 1 TRANSTION BOX SUPPORT WELDMENT	11 DFB0043 2 TRANSITION BOX SPACER PLATE	12 DFB0114 1 TRANSITION BOX W/LINER ASSY.	13 S-9288 5 SPRING PIN .250 x 2.50" LONG	14 DFB0159 1 TRANSITION TUBE EXTENSION	15 DFB0127 1 BRUSH/MNT. ASSEMBLY	16 S-7521 2 BOLT HHCS 3/8-16X1-1/2 ZN GR2	17 DFB0038 1 NDEX STANDOFF	18 DFB0231 1 12" 4H0LE INDEX PLATE	19 S-248 10 WASHER FLAT 3/8 USS ZN GR2	DFB0050 1	DFB0146 1	S-7520 2 BOLT HH	S-7383 6	24 S-7515 4 B0LI HHCS 3/8-16 x 1-1/2" ZN GR.5	S=-7010	
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### DFB12645GL

### 12" Six Hole, 45° Distributor Assembly

PART #   QTY   DESCRIPTION	DFB0147 1 12" 6-HOLE BODY WELDMENT	DFB0136 1 INLET SLEEVE WELDMENT	S-7105 20 BOLT HHCS 3/8-16 x 3/4" GR. 5 PLATED	S-968 22 NUT FLANGWZ 3/8-16 ZN GR5	KO-PBA0003 1 BEARING 1 1/2" DODGE 4B SC FLANGE	S-2120 4 WASHER FLAT 1/2 SAE	S-8760 4 BOLT HHCS 1/2-13x1-1/2 ZN GR5	S-8260 4 1/2 - 13 NYLOCK NUT	DFB0158 1 INDEXING SHAFT	DFB0040 1 TRANSTION BOX SUPPORT WELDMENT	DFB0043 2 TRANSITION BOX SPACER PLATE	DFB0114 1 TRANSITION BOX W/LINER ASSY.	S-9288 5 SPRING PIN ,250 x 2.50" LONG	DFB0159 1 TRANSITION TUBE EXTENSION	DFB0127 1 BRUSH/MNT, ASSEMBLY	S-7521 2 BOLT HHCS 3/8-16X1-1/2 ZN GR2	DFB0038 1 INDEX STANDOFF	DFB0148 1 12" GHOLE INDEX PLATE	S-248 10 WASHER FLAT 3/8 USS ZN GR2	DFB0050 1 INDEX TUBE ASSEMBLY	-	2 BOLT HH	S-7383 6 3/8 - 16 NYLOCK NUT	S-7515 4 BOLT HHCS 3/8-16 x 1-1/2" ZN GR.5	BOLTHICS 388-16 x 1-172 ZN  BOLTHICS 388-16 XN  BOLTHICS 388-16 XN	
ITM PAF	1 DFB	2 DFB	3 S-	-S	5 KD-PE	-S 9	-S 2-	-S	9 DFB	10 DFB	11 058	12 DFB	13 S-	14 DFB	15 DFB	16 S-	17 DFB	18 DFB	19 S-	20 DFB				24 S-		Fractions +/- 1/32" Decimals +/- ,031 Angles +/- 1,00
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# DFB12845GL 12" Eight Hole, 45° Distributor Assembly

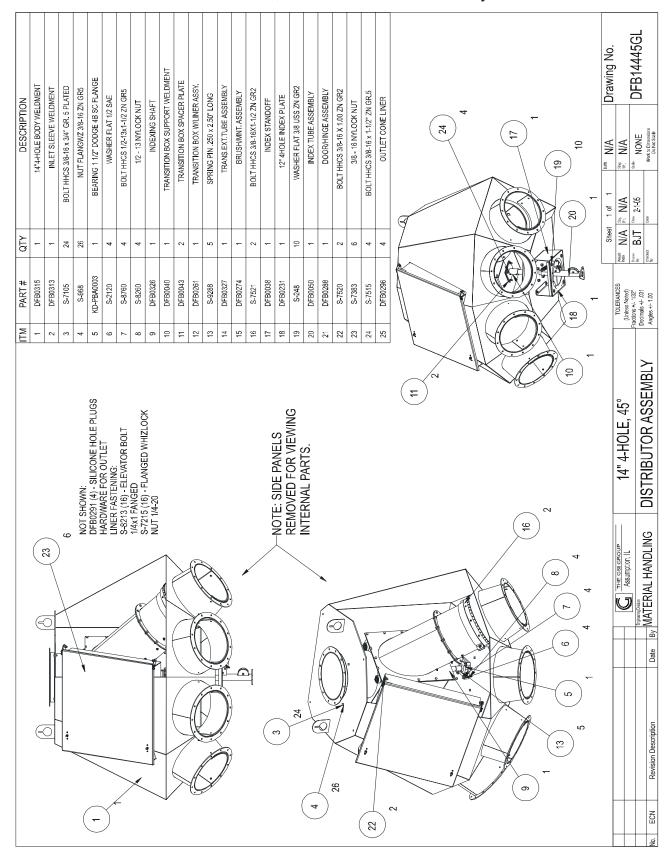


### DFB121045GL

### 12" 10 Hole, 45° Distributor Assembly

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17M   PART # OTTY   17M   PART # OTTY   17M   PART # OTTY   17   17   17   17   17   17   17   1	1	DESCRIPTION	BODY WELDMENT	BEARING I 1/2" DODGE 4B SC FLANGE	WASHER FLAT 1/2 SAE	BOLT HHCS 1/2-13x1-1/2 ZN GR5	1/2 - 13 NYLOCK NUT	5	INDEXING SHAFT	TRANSITION BOX SUPPORT WELDMENT	TRANSITION BOX SPACER PLATE	SPRING PIN .250 x 2.50" LONG	TRANSITION BOX W/LINER ASSY.	WASHER FLAT 3/8 USS ZN GR2		3/8 - 16 NYLOCK NUT	INDEX STANDOFF	10" 10-HOLE INDEX PLATE	INDEX TUBE ASSEMBLY	NUT FLANGWZ 3/8-16 ZN GR5	INLET SLEEVE WELDMENT	TRANSITION TUBE EXTENSION	BRUSH/MNT. ASSEMBLY	BOLT HHCS 3/8-16X1-1/2 ZN GR2	DOOR/HINGE ASSEMBLY	BOLT HHCS 3/8-16 X 1.00 ZN GR2	W.M.	Ship WA
11M PART #   11M	1   18	<u></u> _ Lo	-	_	4	4	4	24	_	_	2	5	-	0_	4	9	_	_	-	26	-	_	_	2	_	2		X X
26 (13) (13) (14) (14) (14) (15) (16) (17) (17) (18) (18) (18) (19) (19) (19) (19) (19) (19) (19) (19	111 120 111 121 121 131 141 141 141 151 161 161 161 161 161 161 16	PART #	DFB0331	KD-PBA0003	8-2120	8-8760	8-8260	\$-7105	DFB0344	DFB0040	DFB0043	8-9288	DFB0114	S-248	5-7515	5-7383	DFB0038	DFB0082	DFB0050	8-968	DFB0136	DFB0345	DFB0127	8-7521	DFB0146	8-7520		TOLERANCES WITH Unless Noted)
26 (13) (9) (9) (13) (13) (13) (13) (14) (15) (15) (15) (16) (17) (17) (18) (18) (19) (19) (19) (19) (19) (19) (19) (19	9	<u>×</u> ⊢	-	2	٣	4	2	9	7	80	6	0	=	12	- 3	1 4	12	9	11	8	6	20	21	22	23	24		` e
			$\bigcirc$		9.7		-3	4		6	) `	٦ (	( 20 )							Y-NOTE: SIDE PANE	/ REMOVED FOR	/ VIEWING INTERNA	PARTS.	` /		<u> </u>	4 4 4 6 5 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6	nption, IL 12" 10-HOLE,

### DFB14445GL 14" 4 Hole, 45° Distributor Assembly

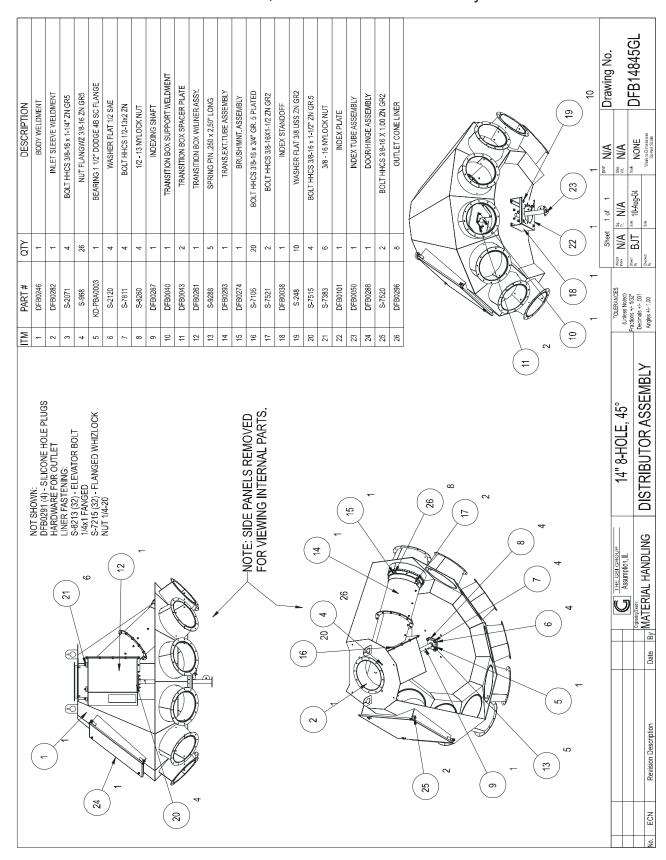


### DFB14645GL

### 14" 6 Hole, 45° Distributor Assembly

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DESCRIPTION	14" 6-HOLE BODY WELDMENT	BOLT HHCS 3/8-16 x 1-1/4" ZN GR5	BEARING 1 1/2" DODGE 4B SC FLANGE	WASHER FLAT 1/2 SAE	BOLT HHCS 1/2-13x2 ZN	1/2 - 13 NYLOCK NUT	INDEXING SHAFT	TRANSITION BOX SUPPORT WELDMENT	TRANSITION BOX SPACER PLATE	TRANSITION BOX W/LINER ASSY.	SPRING PIN .250 x 2.50" LONG	TRANS EXT TUBE ASSEMBLY	INDEX STANDOFF	12" 6HOLE INDEX PLATE	WASHER FLAT 3/8 USS ZN GR2	BOLT HHCS 3/8-16 x 3/4" GR. 5 PLATED	NUT FLANGWZ 3/8-16 ZN GR5	INDEX TUBE ASSEMBLY	BOLT HHCS 3/8-16 x 1-1/2" ZN GR.5	3/8 - 16 NYLOCK NUT	BRUSH/MNT. ASSEMBLY	INLET SLEEVE WELDMENT	DOOR/HINGE ASSEMBLY	BOLT HHCS 3/8-16 X 1.00 ZN GR2	BOLT HHCS 3/8-16X1-1/2 ZN GR2	OUTLET CONE LINER	18 10 10 10 10 10 10 10 10 10 10 10 10 10	Pr. N/A 90 N/A ONE NONE DFB14645GL (100 NONE NONE NONE NONE NONE NONE NONE NO
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PART#	DFB0298	S-2071	KD-PBA0003	S-2120	S-7811	S-8260	DFB0308	DFB0040	DFB0043	DFB0261	S-9288	DFB0312	DFB0038	DFB0148	S-248	S-7105	S-968	DFB0050	S-7515	S-7383	DFB0274	DFB0313	DFB0288	S-7520	S-7521	DFB0296	-	TOLERANCES (Unless Noted) Fractions +1 1/32* Decimals +1 031 Angles +1 100
ME	-	2	8	4	2	.0	7	80	6	10	=	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		(Un Fraction Decim
NO HON	DFB0291 (4) - SILICONE HOLE PLUGS	HARDWARÉ FOR OUTLET	LINEK FASTENING: S-8213 (24) - FI EVATOR BOLT	1/4×1 FANGED	S-7215 (24) - FLANGED WHIZLOCK	07-171					(	26		9	,		NOTE: SIDE PANELS	KEMOVED FOR VIEWING	INTERNAL PARTS.		•	(1)	الخ		(21)		25 25	— 14" 6-HOLE, 45° IG DISTRIBUTOR ASSEMBLY
			22	**		<u>/</u>	/	/ *	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				に が に が に に に に に に に に に に に に に			$\begin{pmatrix} 22 \end{pmatrix} \begin{pmatrix} 10 \end{pmatrix}$	)_  									<i> </i>	• 📉 🛝 \\\	Assumption, IL representation in the control of the
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### DFB14845GL 14" 8 Hole, 45° Distributor Assembly



# **NOTES**

### The GSI Group, Inc. Warranty

THE GSI GROUP, INC. ("GSI") WARRANTS ALL PRODUCTS WHICH IT MANUFACTURES TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USAGE AND CONDITIONS FOR A PERIOD OF 12 MONTHS AFTER RETAIL SALE TO THE ORIGINAL END USER. THE PURCHASER'S SOLE REMEDY AND GSI'S ONLY OBLIGATION SHALL BE TO REPAIR OR REPLACE, AT GSI'S OPTION AND EXPENSE, PRODUCTS THAT, IN GSI'S SOLE JUDGMENT, CONTAIN A MATERIAL DEFECT DUE TO MATERIALS OR WORKMANSHIP. ALL DELIVERY AND SHIPMENT CHARGES TO AND FROM GSI'S FACTORY WILL BE PURCHASER'S RESPONSIBILITY. EXPENSES INCURRED BY OR ON BEHALF OF THE PURCHASER WITHOUT PRIOR WRITTEN AUTHORIZATION FROM AN AUTHORIZED EMPLOYEE OF GSI SHALL BE THE SOLE RESPONSIBILITY OF THE PURCHASER.

EXCEPT FOR THE LIMITED WARRANTY EXPRESSED ABOVE, GSI MAKES NO FURTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH (I) PRODUCT MANUFACTURED OR SOLD BY GSI OR (ii) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.

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### THE GSI GROUP



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