

# Manual Feeder

## Installation and Operators Manual

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LIBERTY® Assembly  
(53476)



KONAVI® (56209)



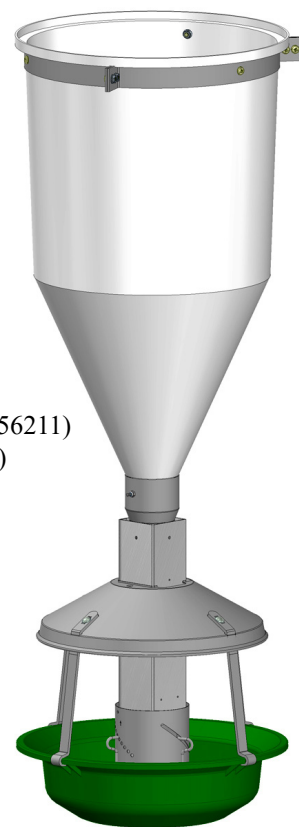
REVOLUTION® 8 Spoke (56211)  
and 12 Spoke (56210)



C2® PLUS Deep (56200) and  
C2® PLUS Shallow (56208)



FLOOR FLOOD REVOLUTION® (FFR)  
8 Spoke (56213) and 12 Spoke (56212)



ATF™ Plus (53477)

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## Introduction

### Warranty

CTB, Inc. ("Chore-Time") warrants new Manual Feeders manufactured by Chore-Time to be free from defects in material or workmanship under normal usage and conditions, for One (1) year from the date of installation by the original purchaser ("Warranty"). If such a defect is determined by Chore-Time to exist within the applicable period, Chore-Time will, at its option, (a) repair the Product or Component Part free of charge, F.O.B. the factory of manufacture or (b) replace the Product or Component Part free of charge, F.O.B. the factory of manufacture. This Warranty is not transferable, and applies only to the original purchaser of the Product.

**CONDITIONS AND LIMITATIONS.** THIS WARRANTY CONSTITUTES CHORE-TIME'S ENTIRE AND SOLE WARRANTY AND CHORE-TIME EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES. CHORE-TIME shall not be liable for any direct, indirect, incidental, consequential or special damages which any purchaser may suffer or claim to suffer as a result of any defect in the Product. Consequential or Special Damages as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs, and operational inefficiencies. *Some jurisdictions prohibit limitations on implied warranties and/or the exclusion or limitation of such damages, so these limitations and exclusions may not apply to you. This warranty gives the original purchaser specific legal rights. You may also have other rights based upon your specific jurisdiction.*

Compliance with federal, state and local rules which apply to the location, installation and use of the Product are the responsibility of the original purchaser, and CHORE-TIME shall not be liable for any damages which may result from non-compliance with such rules.

The following circumstances shall render this Warranty void:

- Modifications made to the Product not specifically delineated in the Product manual.
- Product not installed and/or operated in accordance with the instructions published by the CHORE-TIME.
- All components of the Product are not original equipment supplied by CHORE-TIME.
- Product was not purchased from and/or installed by a CHORE-TIME authorized distributor or certified representative.
- Product experienced malfunction or failure resulting from misuse, abuse, mismanagement, negligence, alteration, accident, or lack of proper maintenance, or from lightning strikes, electrical power surges or interruption of electricity.
- Product experienced corrosion, material deterioration and/or equipment malfunction caused by or consistent with the application of chemicals, minerals, sediments or other foreign elements.
- Product was used for any purpose other than for the care of poultry and livestock.

The Warranty may only be modified in writing by an officer of CHORE-TIME. CHORE-TIME shall have no obligation or responsibility for any representations or warranties made by or on behalf of any distributor, dealer, agent or certified representative.

Effective: April 2014

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## Safety

**Caution, Warning and Danger Decals** have been placed on the equipment to warn of potentially dangerous situations. Care should be taken to keep this information intact and easy to read at all times. Replace missing or damaged safety decals immediately.

### Safety–Alert Symbol



**This is a safety–alert symbol.** When you see this symbol on your equipment, be alert to the potential for personal injury. This equipment is designed to be installed and operated as safely as possible...however, hazards do exist.

### Understanding Signal Words

**Signal words** are used in conjunction with the safety–alert symbol to identify the severity of the warning.



**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 hazardous situation which, if not avoided, **MAY** result in minor or moderate injury.

### Follow Safety Instructions

Carefully read all safety messages in this manual and on your equipment safety signs. Follow recommended precautions and safe operating practices.

Keep safety signs in good condition. Replace missing or damaged safety signs.

### Decal Descriptions

#### **DANGER: Moving Parts**

Disconnect electrical power before working on system, equipment may start automatically. Otherwise personal injury will result.

Severe personal injury will result if the equipment is operated without covers properly installed.



#### **DANGER: Electrical Hazard**

Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise.

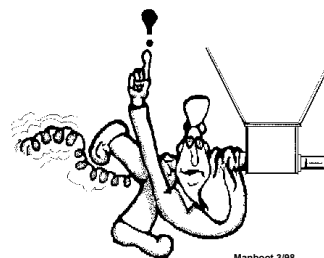
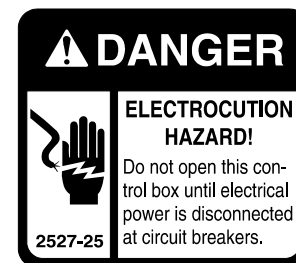
Ground all electrical equipment for safety.

All electrical wiring must be done by a qualified electrician in accordance with local and national electric codes.

Ground all non-current carrying metal parts to guard against electrical shock.

Electrical disconnects and over current protection are not supplied with the equipment. **CAUTION:**

Use caution when working with the Auger—springing Auger may cause personal injury.



Manboot 3/98

## General Information

The Chore-Time Manual Feeders have been designed to feed poultry. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

This manual is designed to provide comprehensive planning and Management Guidelines. The Table of Contents provides a convenient overview of the information in this manual.

**Important: Read ALL instructions carefully before starting construction.**

**Important: Pay particular attention to all SAFETY information.**

- *Metric measurements are shown in millimeters and in brackets, unless otherwise specified. “ ” equals inches and “ ’ ” equals feet in English measurements.*

*Examples:*

*1" [25.4]*

*4' [1 219]*

- Optional equipment contains necessary instructions for assembly or operation.
- Very small numbers near an illustration (*i.e.*, 1257-48) are identification of the graphic, not a part number.

Note: The original, authoritative version of this manual is the English version produced by CTB, Inc. or any of its subsidiaries or divisions, (hereafter collectively referred to as "CTB"). Subsequent changes to any manual made by any third party have not been reviewed nor authenticated by CTB. Such changes may include, but are not limited to, translation into languages other than English, and additions to or deletions from the original content. CTB disclaims responsibility for any and all damages, injuries, warranty claims and/or any other claims associated with such changes, inasmuch as such changes result in content that is different from the authoritative CTB-published English version of the manual. For current product installation and operation information, please contact the customer service and/or technical service departments of the appropriate CTB subsidiary or division. Should you observe any questionable content in any manual, please notify CTB immediately in writing to: CTB Legal Department, P.O. Box 2000, Milford, IN 46542-2000 USA.

# Installation

## Feeder Assembly

### KONAVI® (56209) Feeder Assembly

1. Insert the Quarter Turn Key (55818) into the Key-hole of the Chick Excluder (55821).

**Note:** Only one leg of the Chick Excluder has the Key-hole.

2. Push on the Quarter Turn Key until it snaps into place.

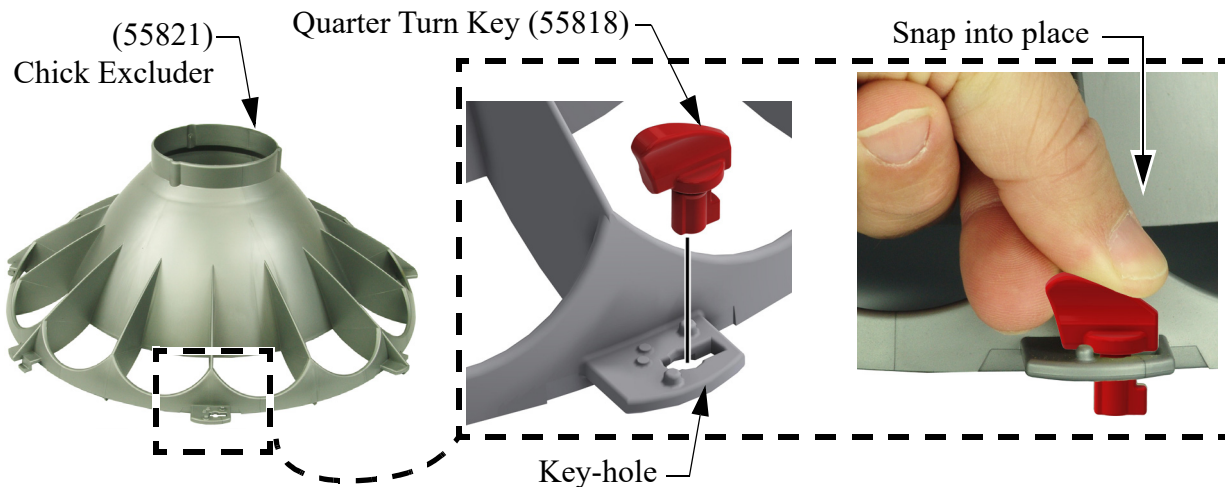


Figure 1. Installing Quarter Turn Key

3. Line up and slide the Cone Skirt (55816) over the Feed Cone (56207).

4. Line up the Feed Cone Quarter Turn Key with the Key-hole (See Figure) in the Feed Pan. Insert the Hook into the Feed Pan and rotate down as shown.

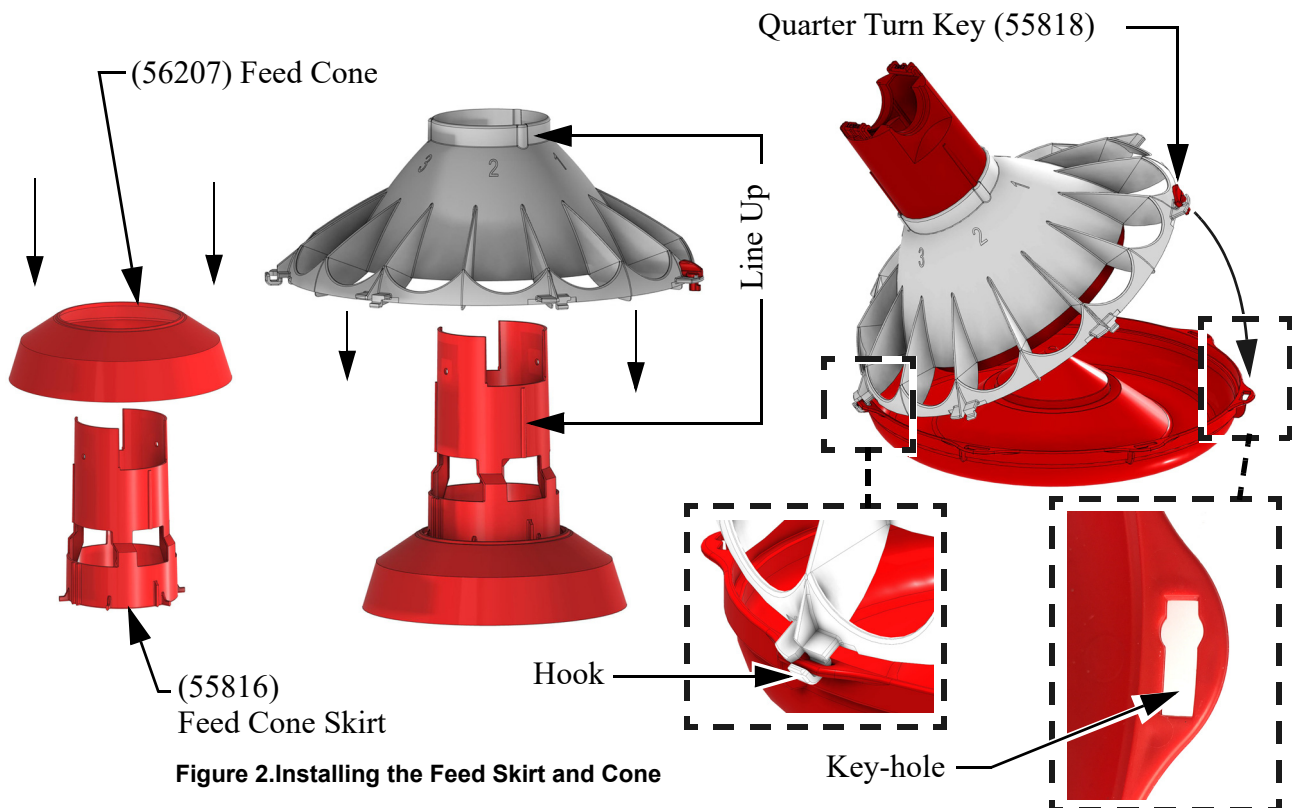
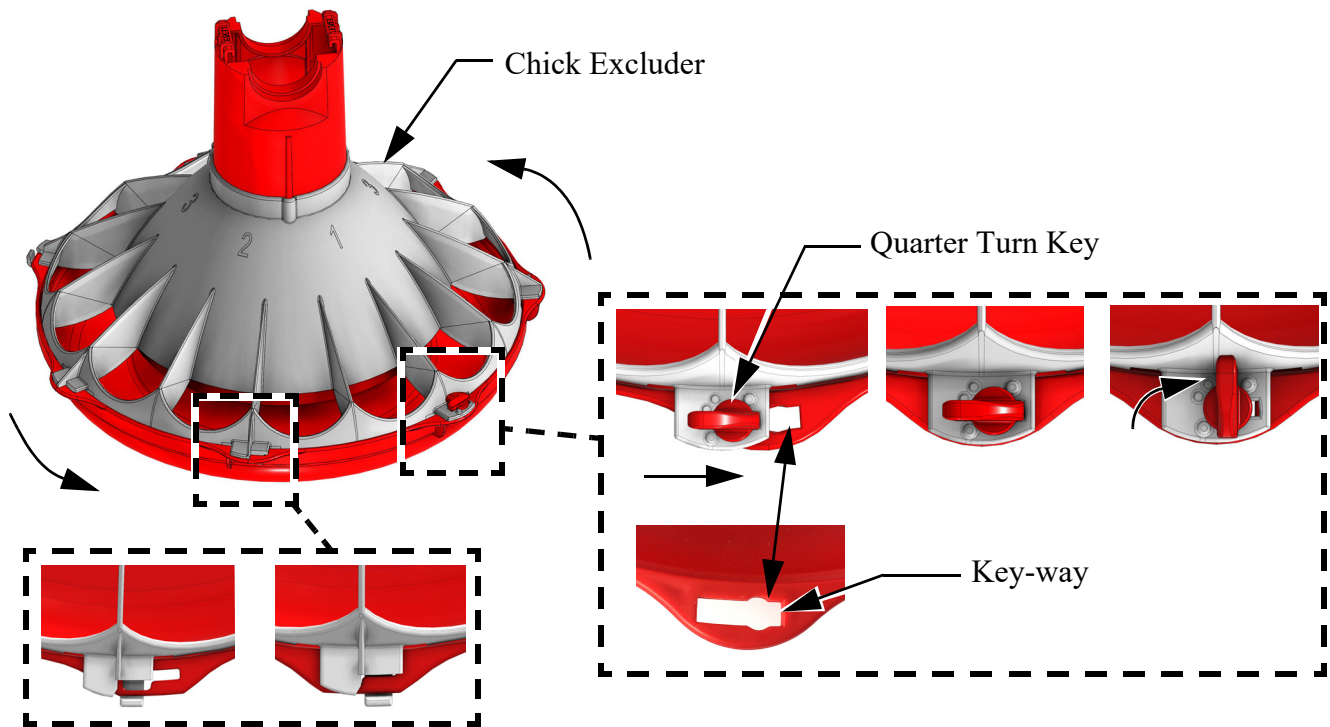


Figure 2. Installing the Feed Skirt and Cone

5. Push down and Rotate the Chick Excluder until it snaps in place and turn the Quarter turn Key Clockwise 90°.



## LIBERTY® Manual Feeder Assembly (53476)

1. Insert the Feed Level Cone (53479) into the Machined Adjustment Cone (51629) as shown in **Figure 4**. They will only slide together when they are lined up correctly.
2. Screw the LIBERTY Grill onto the Feed level Cone.

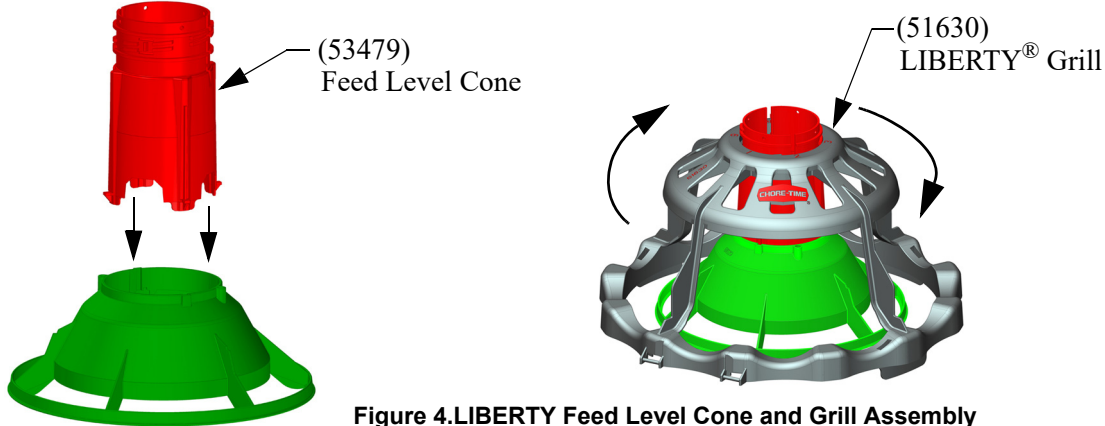


Figure 4. LIBERTY Feed Level Cone and Grill Assembly

3. Fasten the Pan (51631) onto the Grill as shown in **Figure 5**. Rotate the Pan and snap the Grill in place.

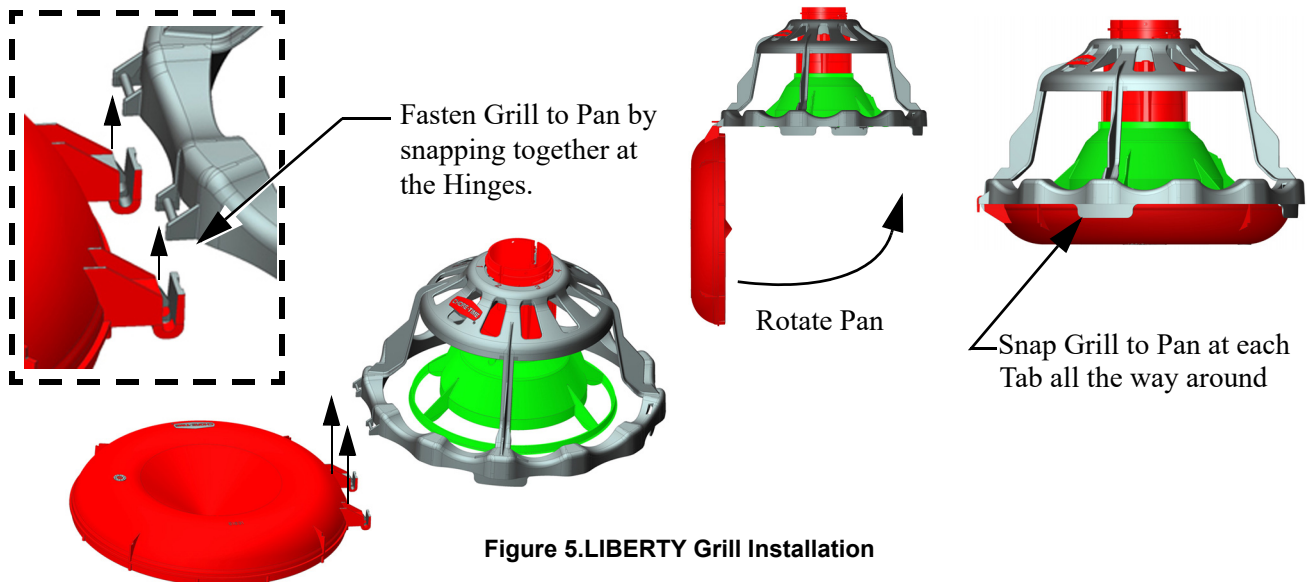


Figure 5. LIBERTY Grill Installation

4. Attach the Adapter (53480) to the Feed Level Cone with four #6-32x 3/8 Screws (34660), or Pop Rivets as shown in **Figure 6**.

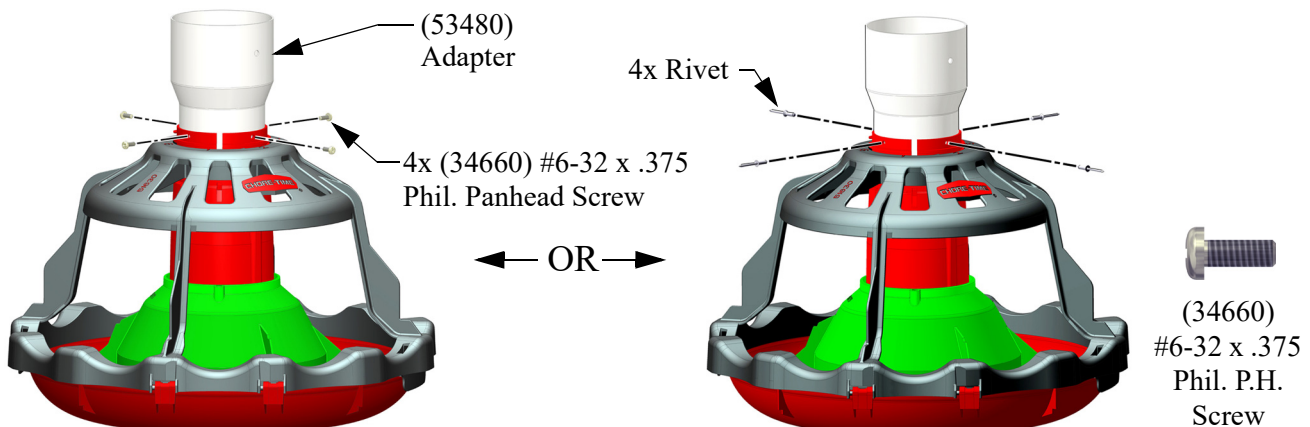


Figure 6. LIBERTY Adapter Installation



## REVOLUTION®, and FLOOR FLOOD REVOLUTION® Feeder Assemblies

**REVOLUTION: 8 spoke (56211) and 12 Spoke (56210)**

**FLOOR FLOOD REVOLUTION: 8 spoke (56213) and 12 Spoke (56212)**

The REVOLUTION and FLOOR FLOOD REVOLUTION Feeders assemble in the same manner.

1. Set the Grill (46837 or 46834) on the Cone Assembly (56214) and Rotate the Grill until it reaches Position 4. (See Figure 7.).
2. Install the Feeder Pan (46840) by Rotating Clockwise until it snaps in place.

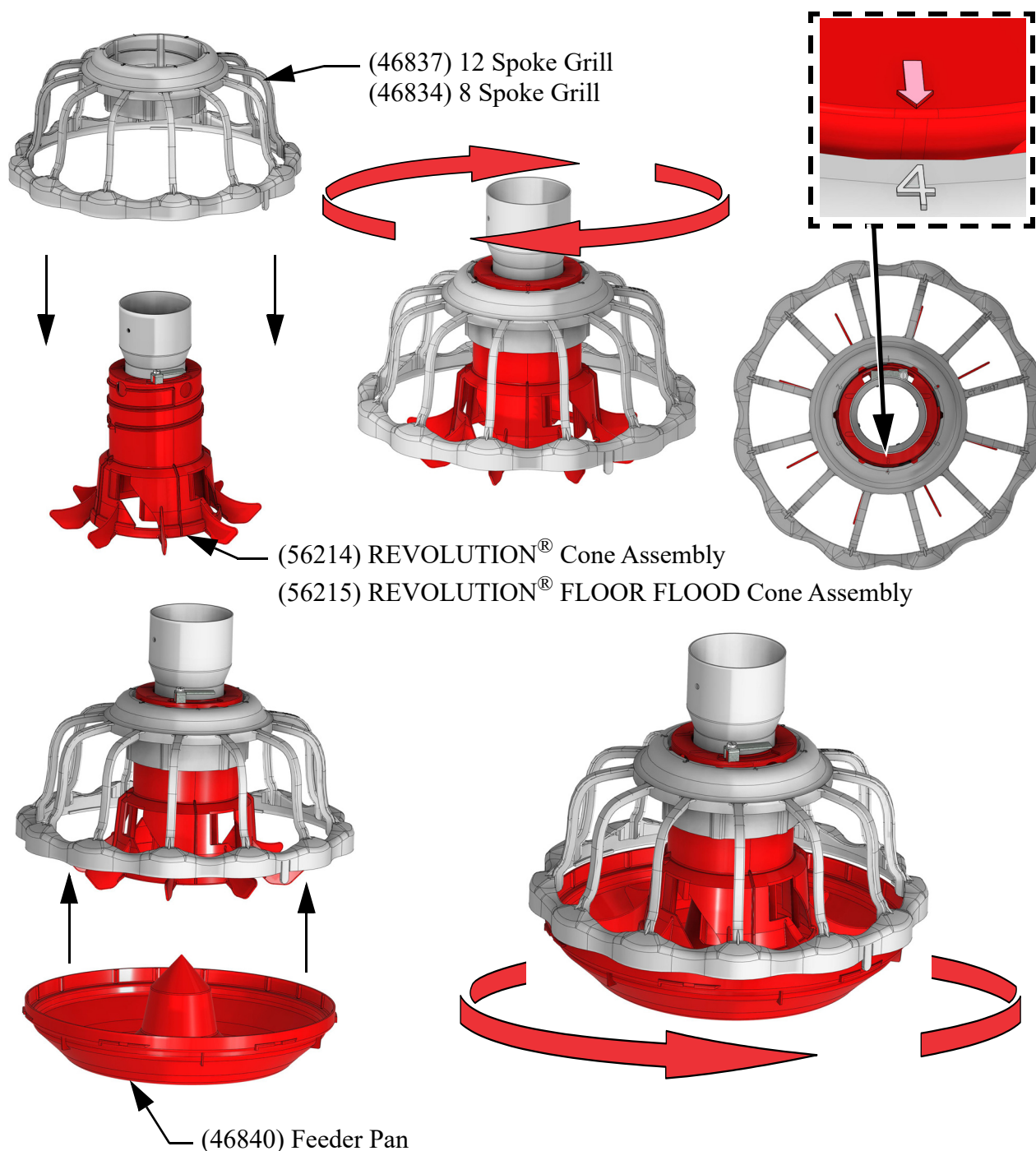


Figure 7. REVOLUTION, & REVOLUTION FLOOR FLOOD 8 and 12 Feeder Assembly

## C2<sup>®</sup> Plus Deep (56200) and Shallow (56208) Feeder Assemblies

1. Set the Grill (39567) on the Cone Assembly (56205-Shallow, or 56206-Deep) (See Figure 8.).
2. Insert the Hook of the Feeder Pan into the slot in the Grill.
3. Rotate the Pan up until it is engaged with the Grill.
4. Rotate the Grill until it snaps in place as shown.
5. Adjust the Feeder Pan to **Position 4**.

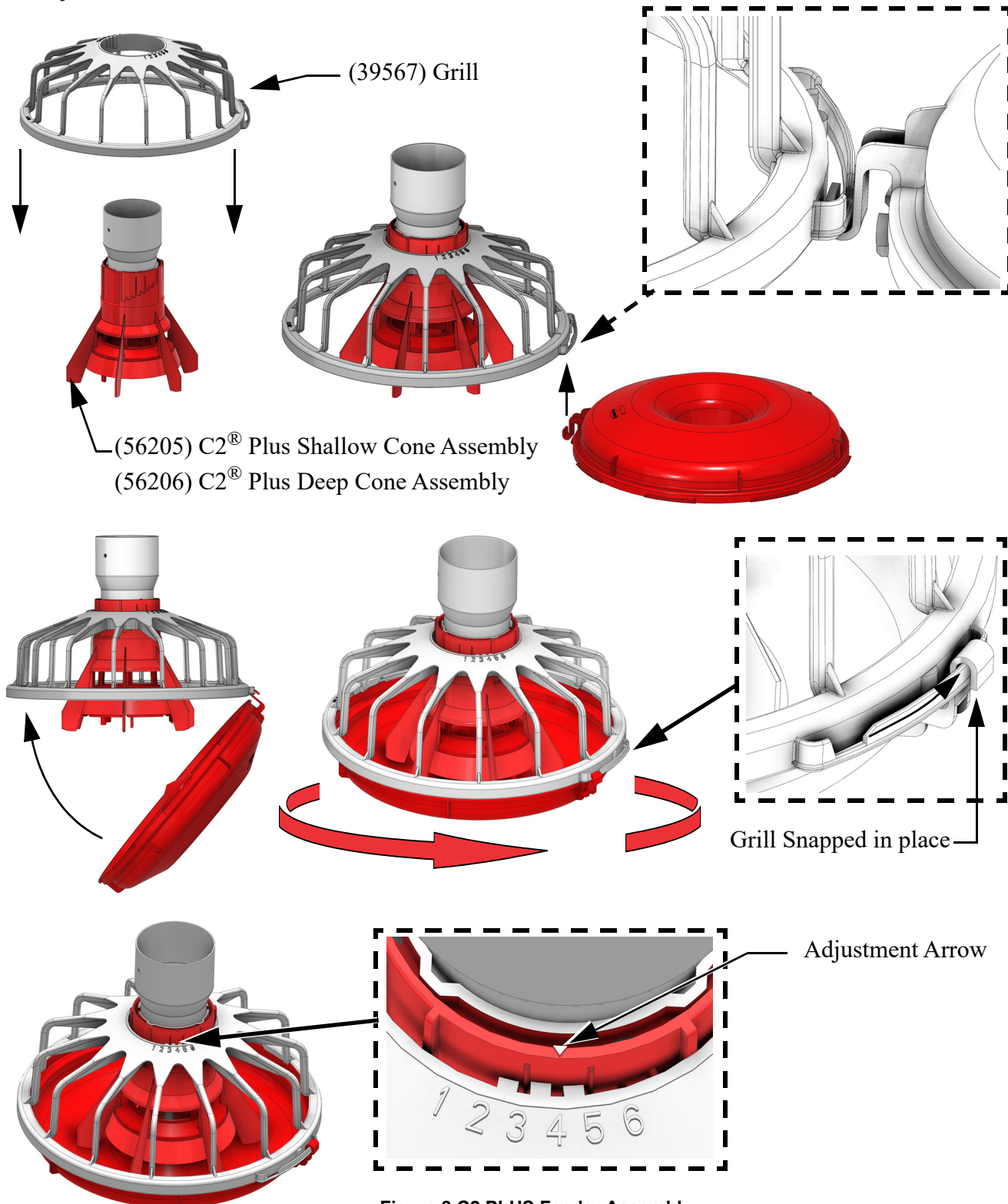
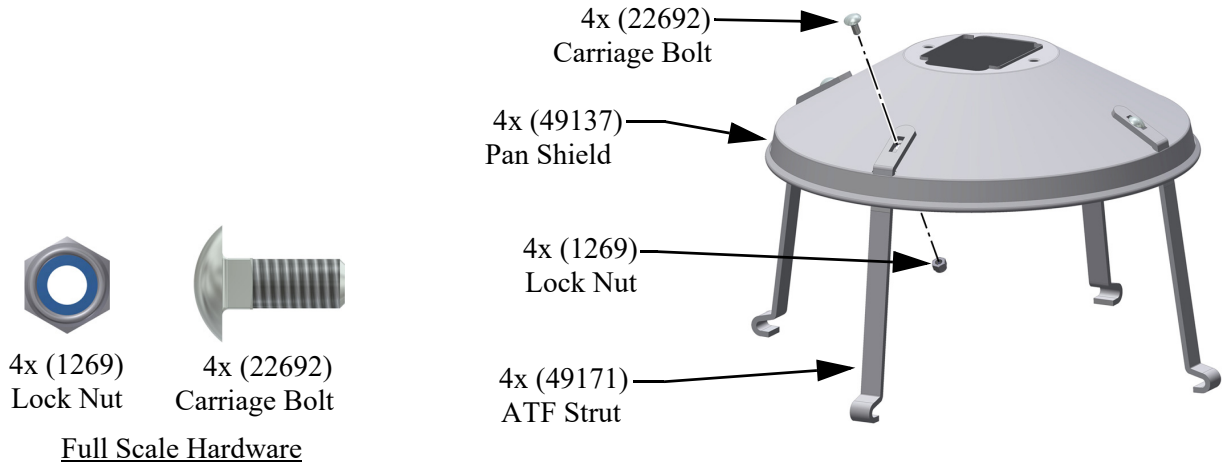


Figure 8.C2 PLUS Feeder Assembly

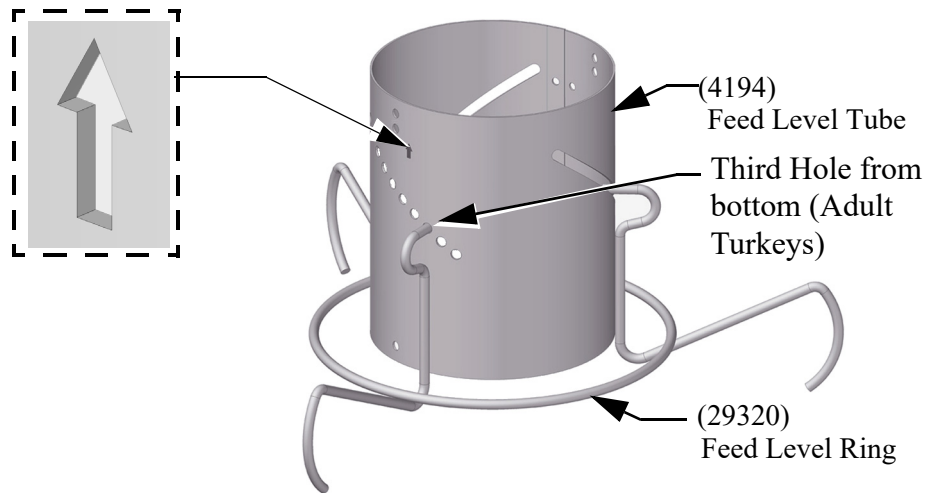
## ATF™ Plus (53477) Feeder Assembly

1. Attach four ATF Struts (49171) to the Pan Shield (49137) with 1/4-20 Carriage Bolts (22692) and 1/4-20 Lock Nuts (1269) as shown in **Figure 9**.

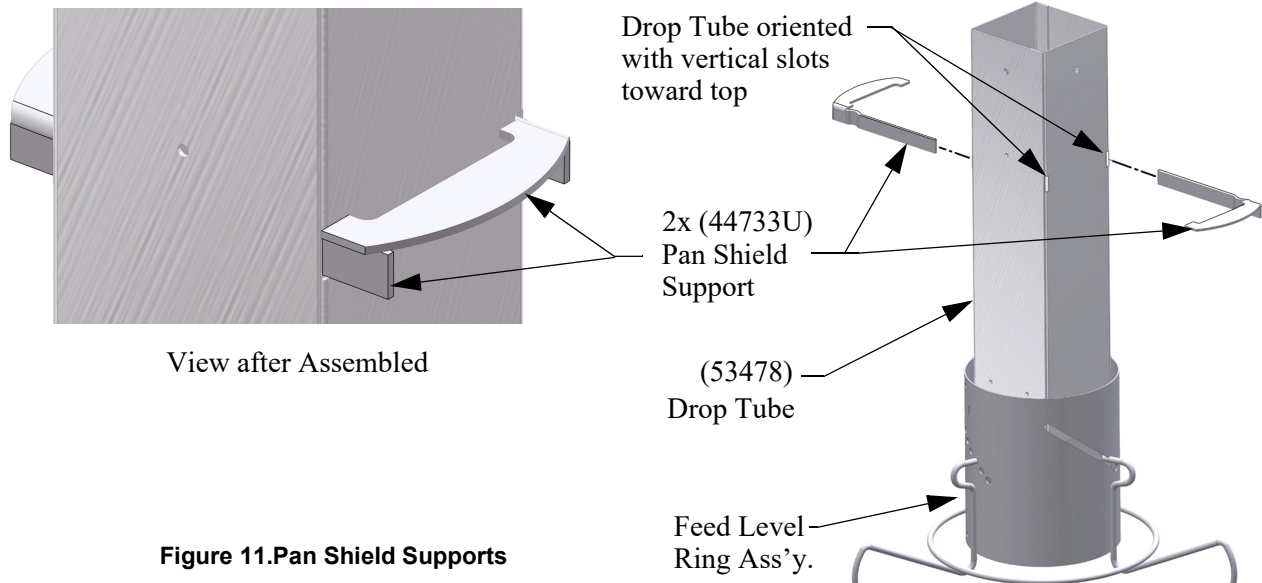


**Figure 9. Attaching Pan Shield**

2. Attach the Feed Level Tube (4194) to the Feed Level Ring (29320) as shown in (See **Figure 10**.) **Note the direction of the arrow on the side of the Feed Level Tube.**

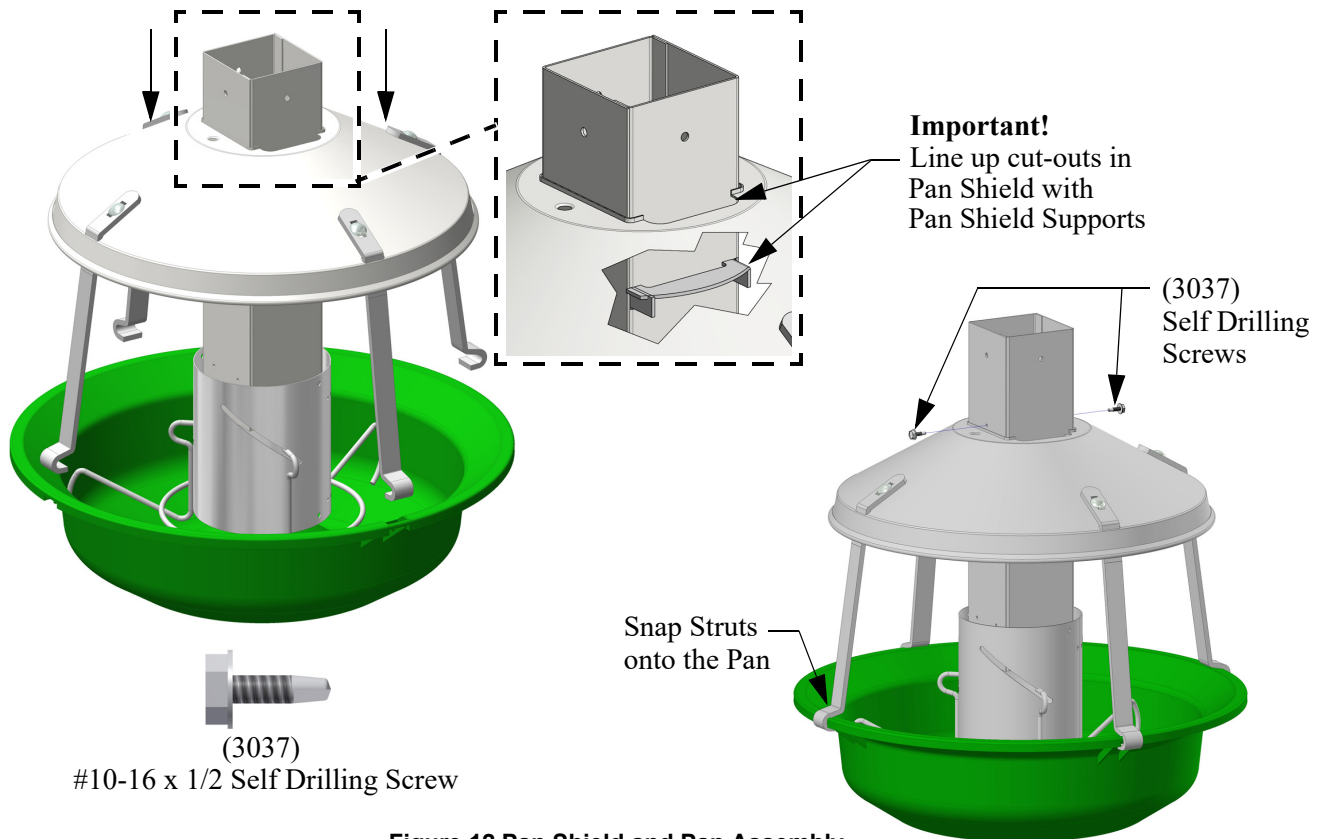


**Figure 10. Feed Level Tube and Ring**



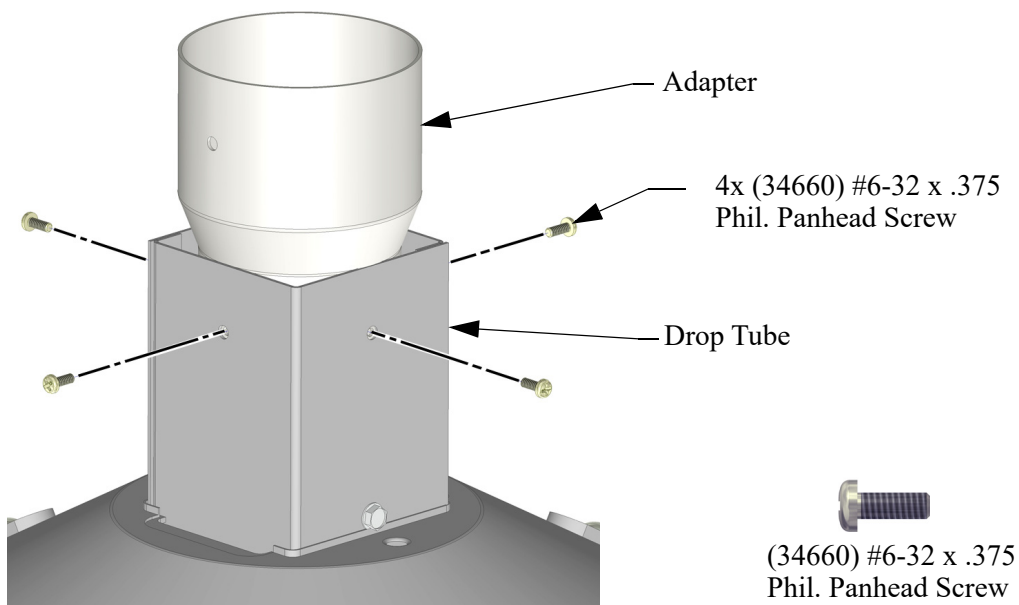
**Figure 11. Pan Shield Supports**

5. Set the Feed Level Ring Assembly in the Pan, insert the Drop Tube, and slide the Pan Shield Assembly onto the Drop Tube. Note that the orientation of the Pan Shield Assembly is important in relationship to the Drop Tube Assembly, **Figure 12**.
6. Snap the Struts onto the Pan at the four cut-outs in the Pan as shown.
7. Install two #10-16 x .50 Self Drilling Screws (**1876**) in the holes in the Drop Tube, **Figure 12**.



**Figure 12. Pan Shield and Pan Assembly**

8. Attach the Adapter (**53480**) to the Feeder Tube with four #6-32 x 3/8 Screws (**34660**) as shown in **Figure 13**.



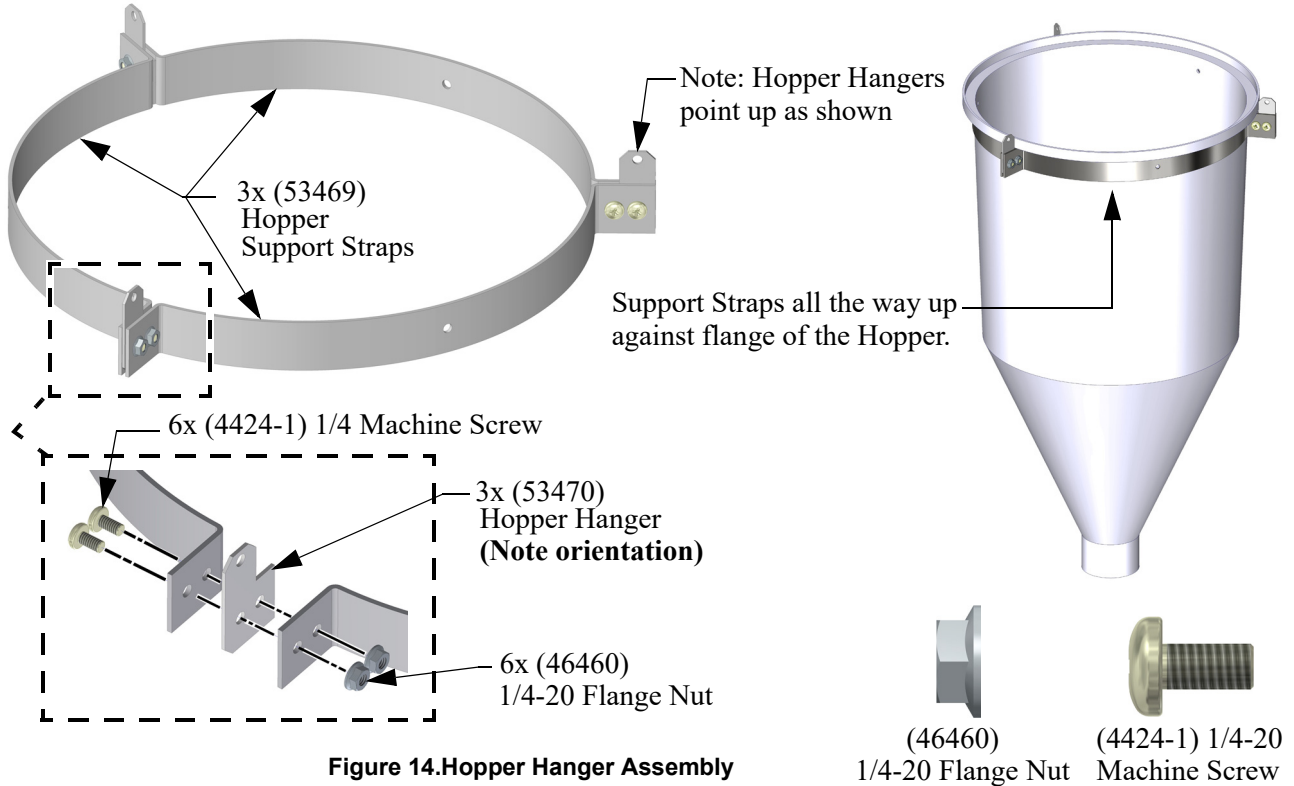
**Figure 13. Adapter**



## Hopper Assembly and Installation

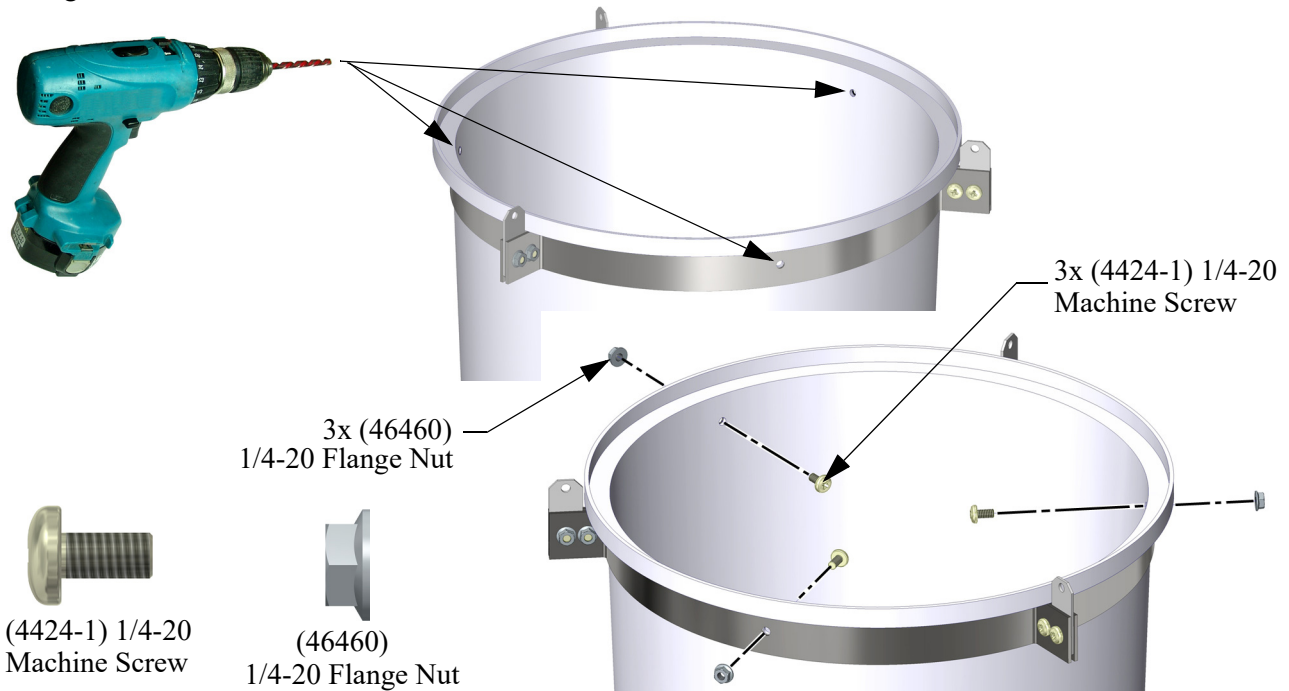
### ST60036 Hopper for ATF Feeder Model

1. Assemble the Hopper Support Straps (53469) and Hopper Hangers as shown in **Figure 14**. Do not tighten hardware at this time. The Straps will be tightened in the next step.
2. Slide the Support Straps up onto the Hopper (ST60036) until it is against the upper Hopper flange and tighten the Hardware.



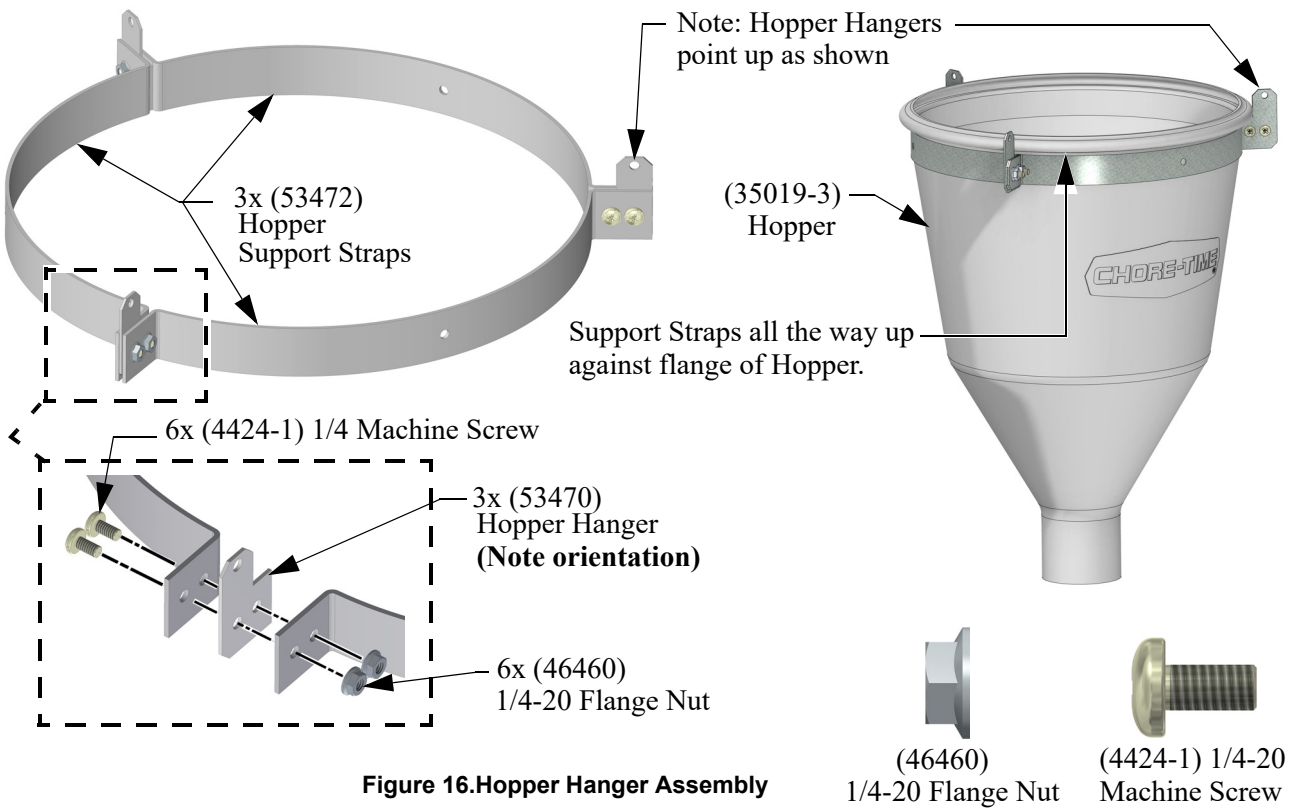
**Figure 14. Hopper Hanger Assembly**

3. Using the holes in the Straps as a guide, drill three 1/4" [6.35mm] holes in the Hopper, **Figure 15**.
4. fasten the Straps to the Hopper with 1/4-20 Machine Screws (4424-1) and Flange Nuts (46460).
5. Tighten down all the hardware.



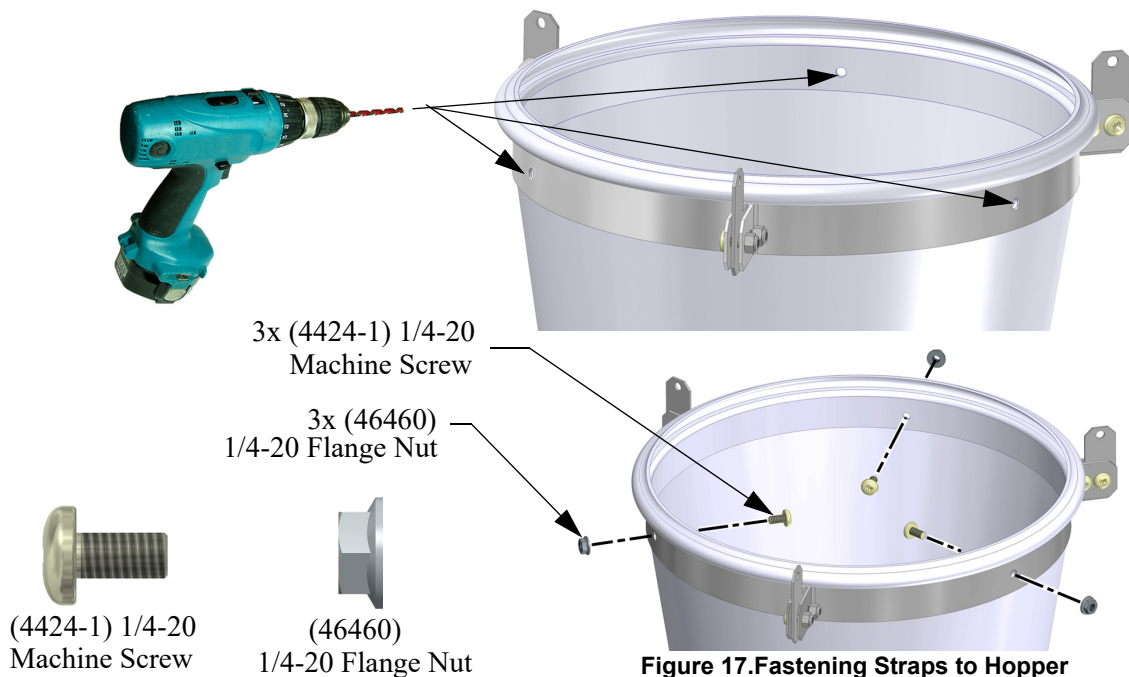
## Hopper Assembly 35019-3 (for all models except ATF)

1. Assemble the Hopper Support Straps (53472) and Hopper Hangers as shown in **Figure 16**. Do not tighten hardware at this time. The Straps will be tightened in the next step.
2. Slide the Support Straps up onto the Hopper (35019-3) until it is against the upper Hopper flange and tighten the Hardware.



**Figure 16. Hopper Hanger Assembly**

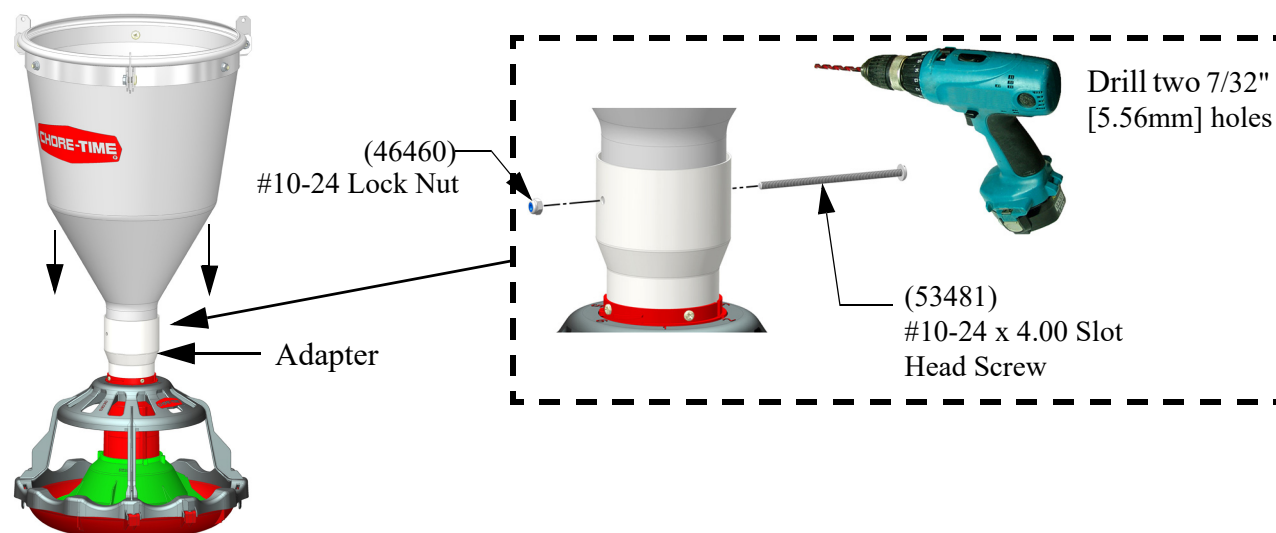
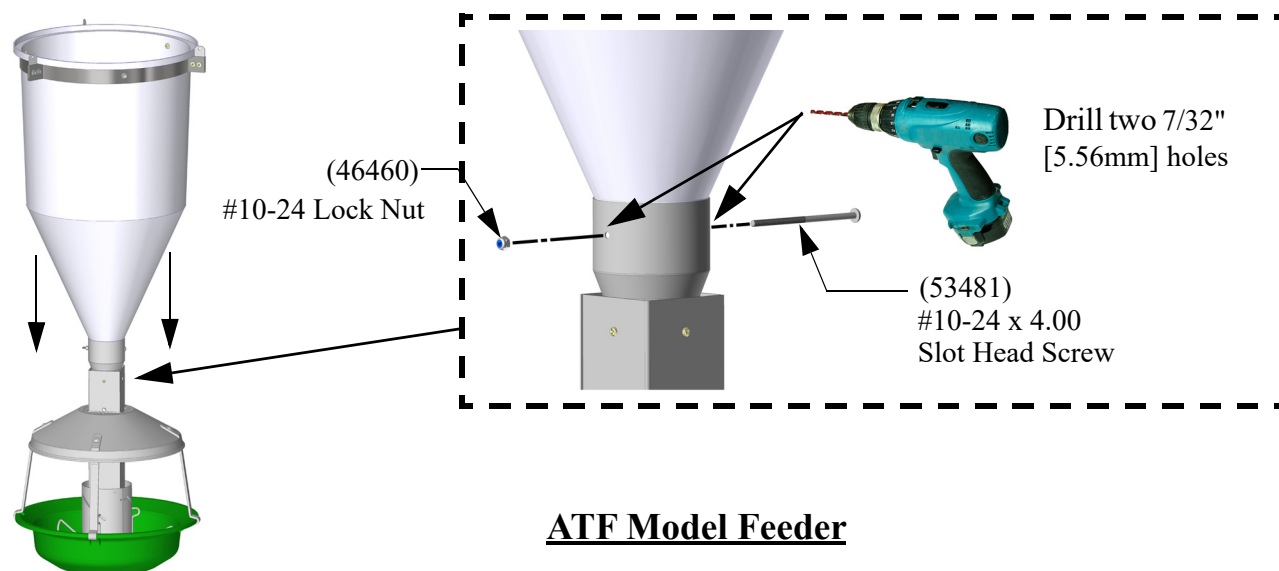
3. Using the holes in the Straps as a guide, drill three 1/4" [6.35mm] holes in the Hopper, **Figure 15**.
4. fasten the Straps to the Hopper with 1/4-20 Machine Screws (4424-1) and Flange Nuts (46460).
5. Tighten down all the hardware.



**Figure 17. Fastening Straps to Hopper**

## Assembling Hopper to Feeder

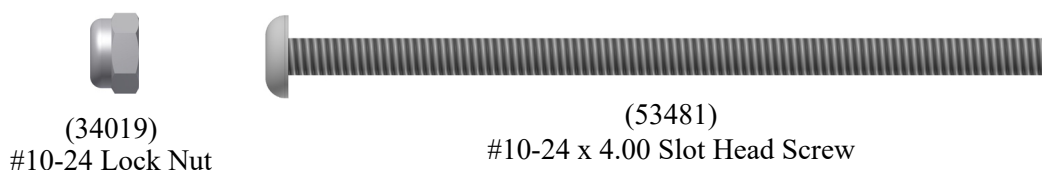
1. Insert the Hopper into the Adapter.
2. Using the holes in the Adapter as a guide, drill two 7/32" [5.56mm] holes in the Hopper. (See Figure 18.)
3. Attach with a #10-24 x 4 Slot Head Screw (53481) and a #10-24 Lock Nut (34019).



LIBERTY Feeder Shown.  
Installation same for all  
Models. (Except ATF  
shown above)

### **All Feeder Models except ATF**

Figure 18.ATF Feeder Hopper Installation



## Feeder Suspension

1. Use the provided S-Hooks (2805) and Chains to suspend the Feeder as shown below in **Figure 19**. The ATF Plus Feeder is shown. All Feeders are Suspended the same way.

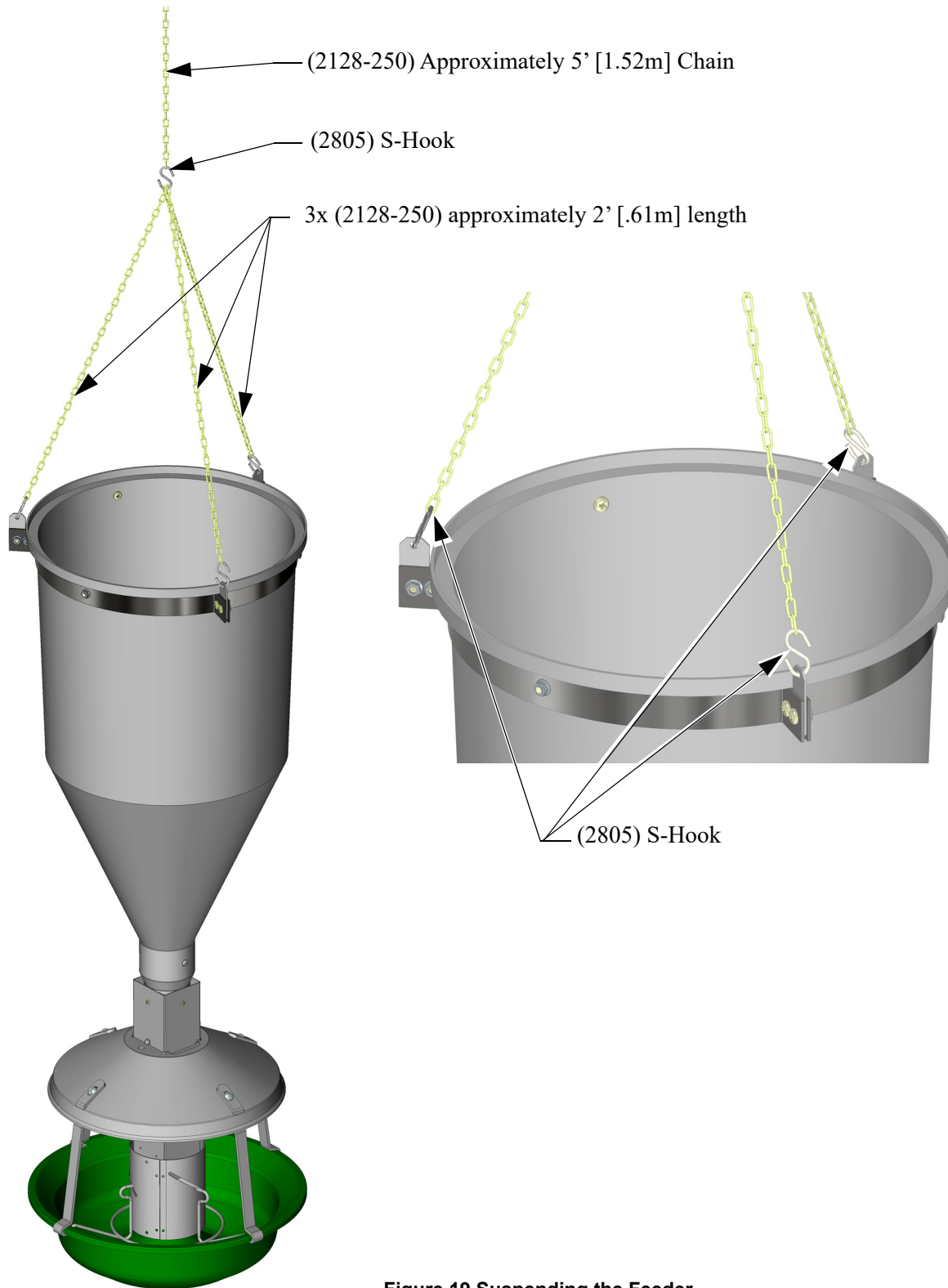
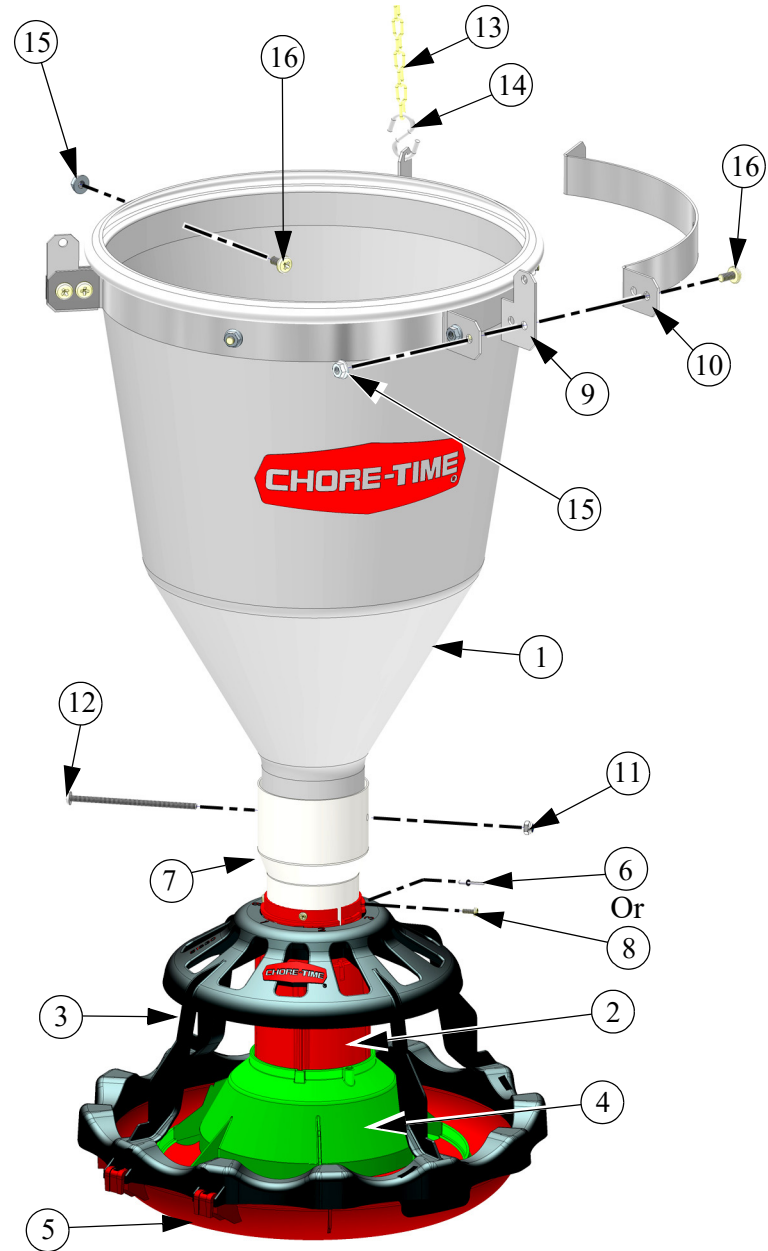


Figure 19. Suspending the Feeder



Part Numbers

LIBERTY® Manual Feeder Assembly (53476)



All Hardware below is Full Scale

8 (34660) #6-32 x .375 Phil. Panhead Screw

11 (34019) #10-24 Lock Nut

15 (46460) 1/4-20 Flange Nut

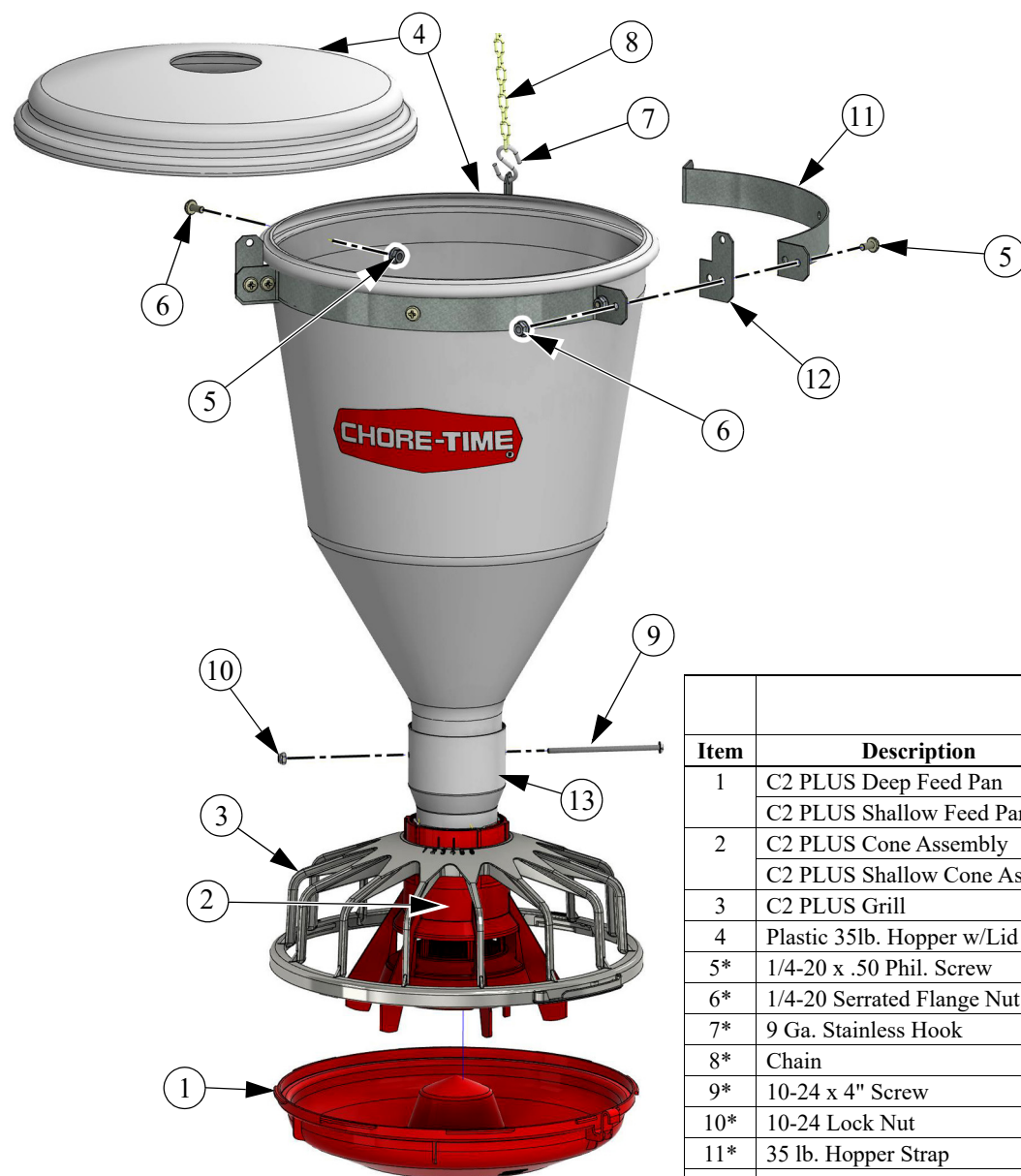
16 (4424-1) 1/4-20 Machine Screw

12 (53481) #10-24 x 4.00 Slot Head Screw

Item	Part No	Description
1	35019-3	35# Hopper (Lid not shown)
2	53479	LIBERTY Support Cone
3	51630	LIBERTY Grill
4	51629-3	Green Feed Level Cone
5	51631	LIBERTY Pan
6	2946	.125 x .250 Pop Rivet
7	53480	Adapter Tube
8*	34660	#6-32 x .375 Phil Pan Hd Screw
*Included in 53473 Hopper Hanger Package		

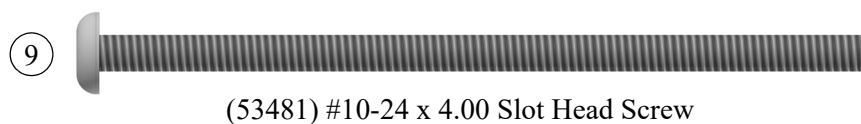
Item	Part No	Description
9*	53470	Support Bracket
10*	53472	35# Hopper Strap
11*	34019	#10-24 Lock Nut
12*	53481	#10-24 x 4" Screw
13*	2128-250	Link Chain
14*	2805	9 Ga. S Hook
15*	46460	1/4-20 Flange Nut
16*	4424-1	1/4-20 x .5 Pan Hd. Phil. Screw

## C2<sup>®</sup> PLUS Deep (56200) and C2<sup>®</sup> PLUS Shallow (56208) Feeder Assemblies

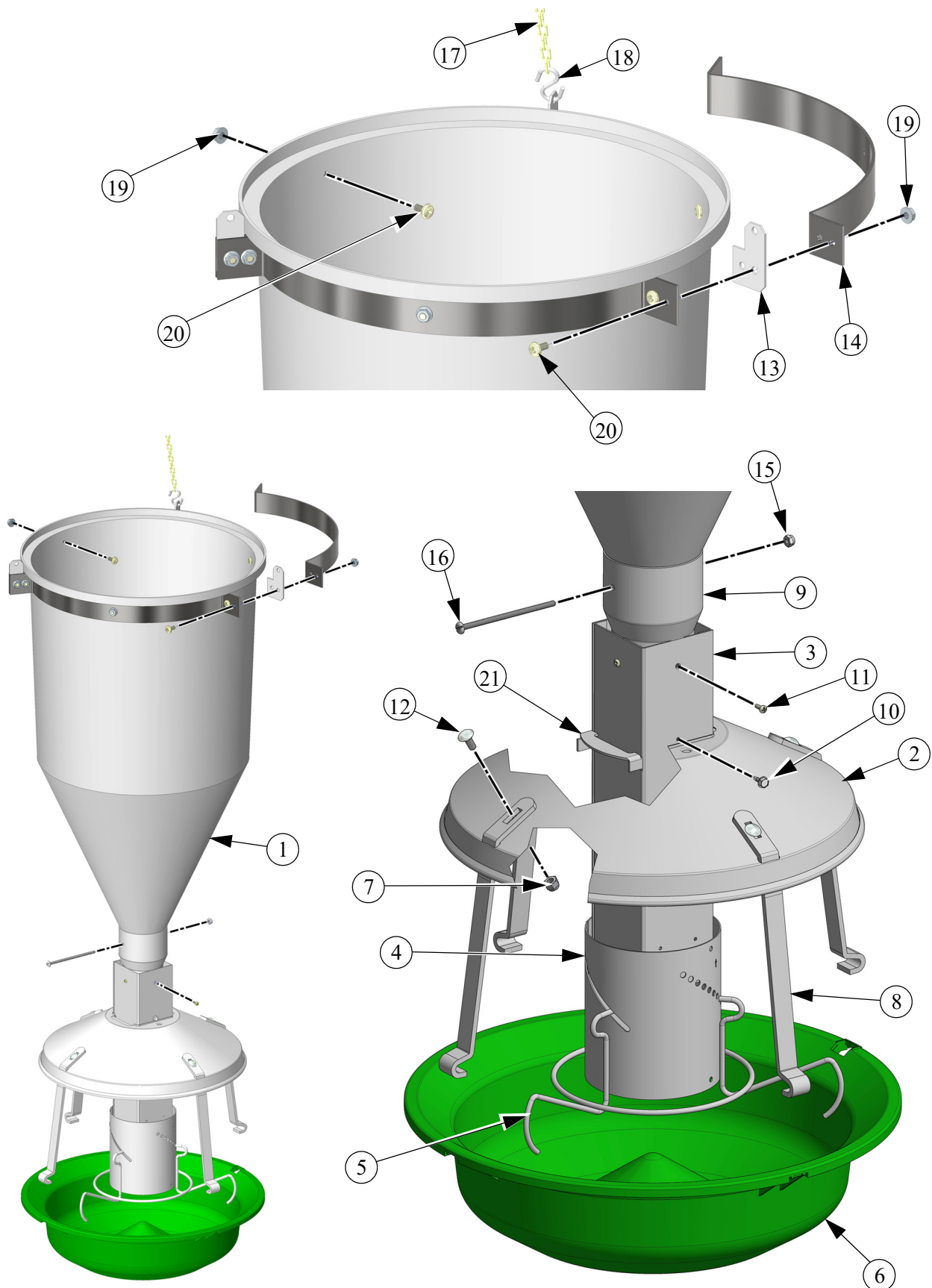


		56200 Deep	56208 Shallow
Item	Description	Part No	
1	C2 PLUS Deep Feed Pan	41501	--
	C2 PLUS Shallow Feed Pan	--	41500
2	C2 PLUS Cone Assembly	56206	--
	C2 PLUS Shallow Cone Ass'y	--	56205
3	C2 PLUS Grill	39567	39567
4	Plastic 35lb. Hopper w/Lid	35019-3	35019-3
5*	1/4-20 x .50 Phil. Screw	4424-1	4424-1
6*	1/4-20 Serrated Flange Nut	46460	46460
7*	9 Ga. Stainless Hook	2805	2805
8*	Chain	2128-250	2128-250
9*	10-24 x 4" Screw	53481	53481
10*	10-24 Lock Nut	34019	34019
11*	35 lb. Hopper Strap	53472	53472
12*	Support Bracket	53470	53470
13**	Adapter	53480	53480

\*Included in 53473 Hopper Hanger Kit  
 \*\*Included with the 56205 or 56206 Cone Assemblies



## ATF Plus (53477) Feeder Assembly

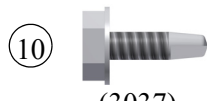


Item	Part No	Description
1	ST60036	100# Hopper
2	49137	Pan Shield
3	53478	ATF Drop Tube
4	4194	Feed Level Cone
5	29320	Feed Level Ring
6	29000G	ATF Pan (Green)
7*	1269	1/4-20 Lock Nut
8*	49171A	ATF Strut
9*	53480	Machined Adapter
10*	3037	#10-16 x 1/2 Self Drilling Screw
11*	34660	#6-32 x .375 Phil. PH Screw
12*	22692	1/4-20 x .625 Carriage Bolt
13*	53470	Support Bracket
14*	53469	100# Hopper Strap
15*	34019	#10-24 Lock Nut
16*	53481	#10-24 x 4" Screw
17*	2128-250	Link Chain
18*	2805	9 Ga. S Hook
19*	46460	1/4-20 Flange Nut
20*	4424-1	1/4-20 x .5 Pan Hd. Phil. Screw
21**	44733U	Pan Shield Support
*Included in 53471 Hopper Hanger Package		
**Included with 53478 ATF Drop Tube Assembly		

**All Hardware below is Full Scale**



(1269)  
Lock Nut



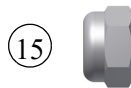
(3037)  
#10-16x 1/2 Self Drilling Screw



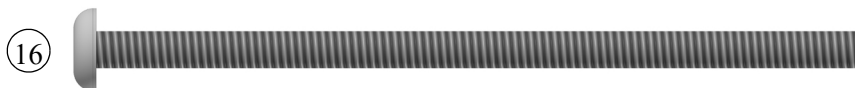
(34660) #6-32 x .375  
Phil. Panhead Screw



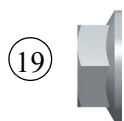
(22692)  
Carriage Bolt



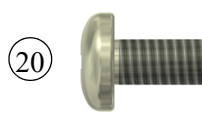
(34019)  
#10-24 Lock Nut



(53481) #10-24 x 4.00 Slot Head Screw

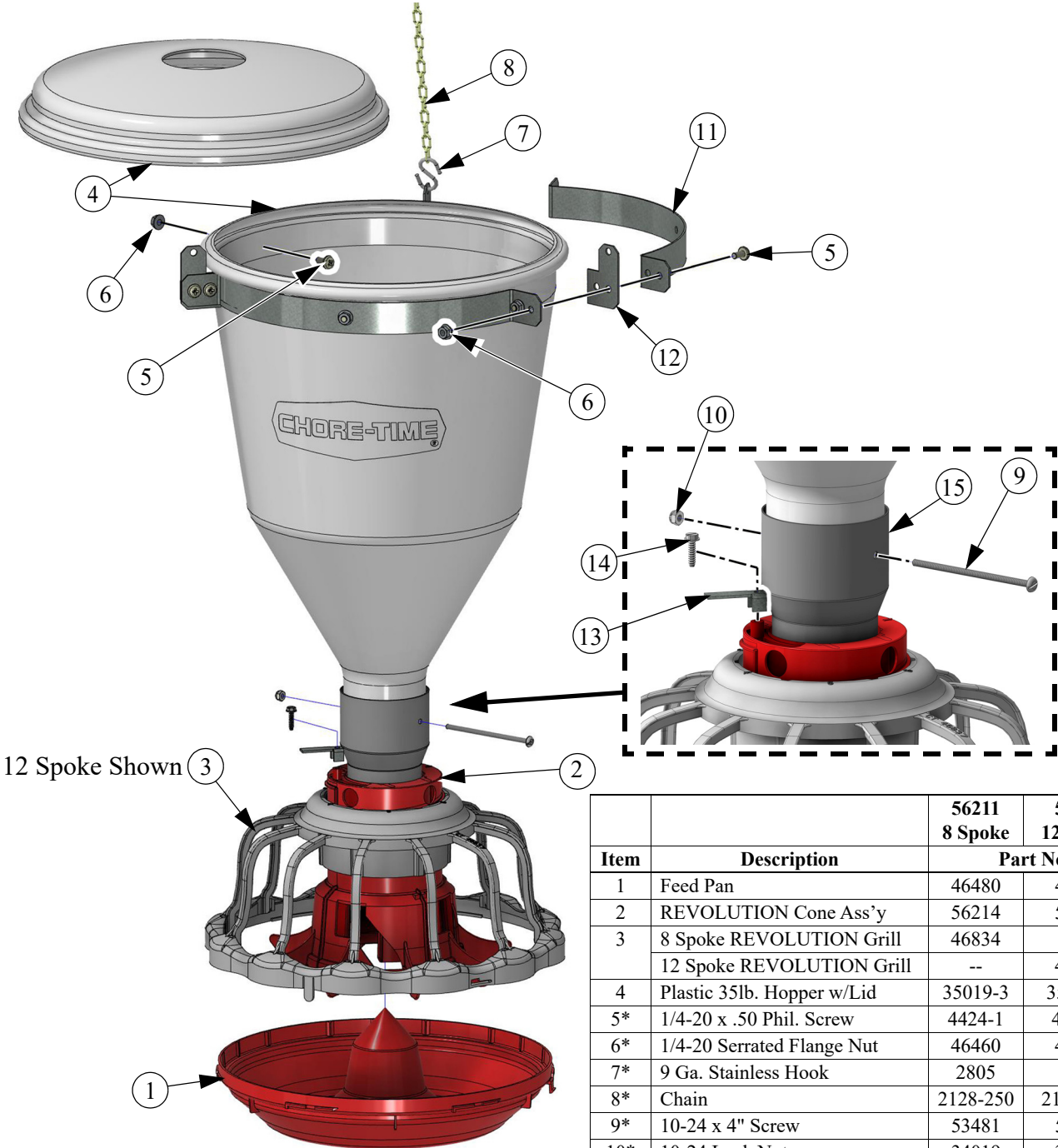


(46460)  
1/4-20 Flange Nut



(4424-1)  
1/4-20 Machine Screw

REVOLUTION® 8 Spoke (56211) and 12 Spoke (56210) Feeder Assemblies



12 Spoke Shown

- 10

(34019)

#10-24 Lock Nut
- 6

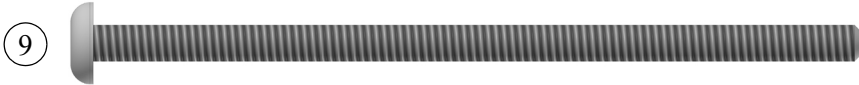
(46460)

1/4-20 Flange Nut
- 5

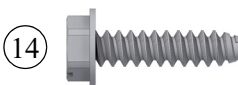
(34660) #6-32 x .375

Phil. P. hd. Screw

		56211	56210
		8 Spoke	12 Spoke
Item	Description	Part No	
1	Feed Pan	46480	46480
2	REVOLUTION Cone Ass'y	56214	56214
3	8 Spoke REVOLUTION Grill	46834	--
	12 Spoke REVOLUTION Grill	--	46837
4	Plastic 35lb. Hopper w/Lid	35019-3	35019-3
5*	1/4-20 x .50 Phil. Screw	4424-1	4424-1
6*	1/4-20 Serrated Flange Nut	46460	46460
7*	9 Ga. Stainless Hook	2805	2805
8*	Chain	2128-250	2128-250
9*	10-24 x 4" Screw	53481	53481
10*	10-24 Lock Nut	34019	34019
11*	35 lb. Hopper Strap	53472	53472
12*	Support Bracket	53470	53470
13**	Control Lock Arm	48525	48525
14**	#10 Twin Helix Screw	6980	6980
15**	Adapter	53480	53480
*Included in 53473 Hopper Hanger Kit			
**Included with the 56214 Cone Assembly			



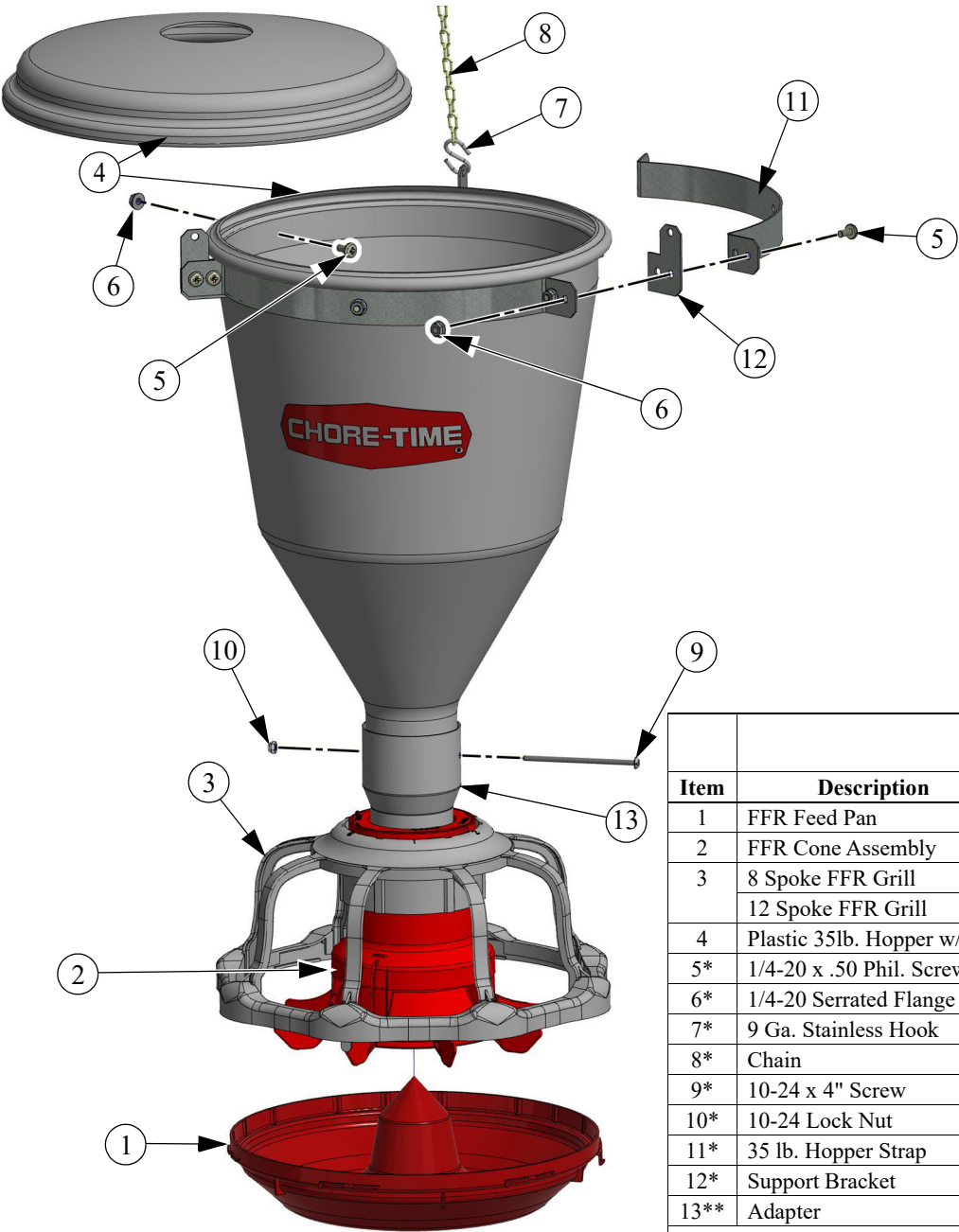
(53481) #10-24 x 4.00 Slot Head Screw



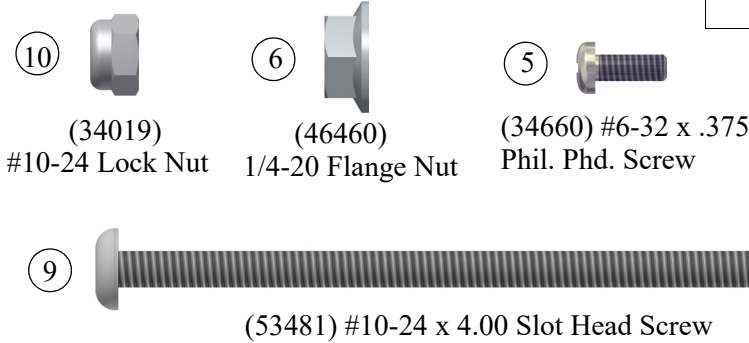
(6980) #10 Twin Helix Screw



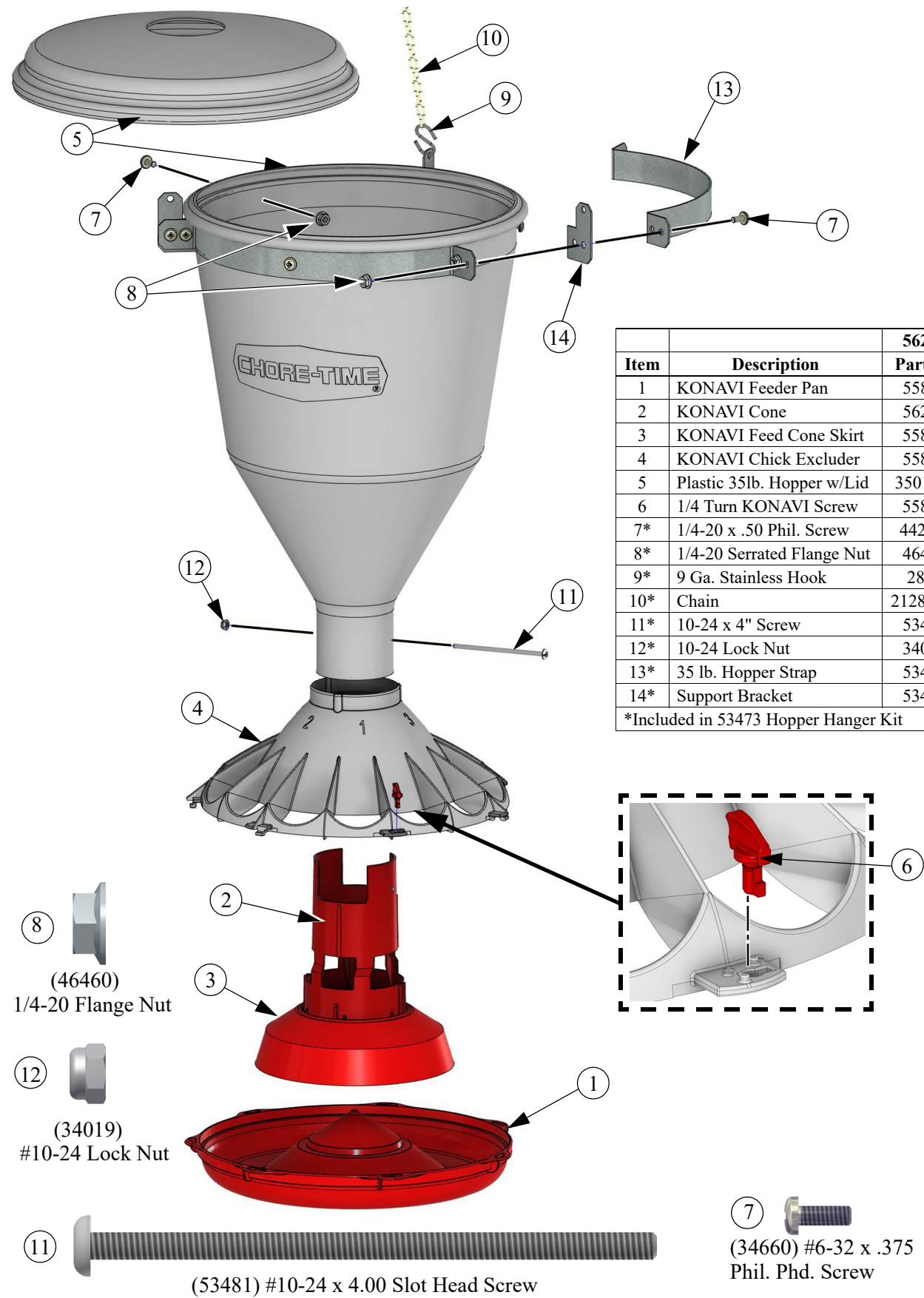
FFR 8 Spoke (56213) and 12 Spoke (56212) Feeder Assemblies

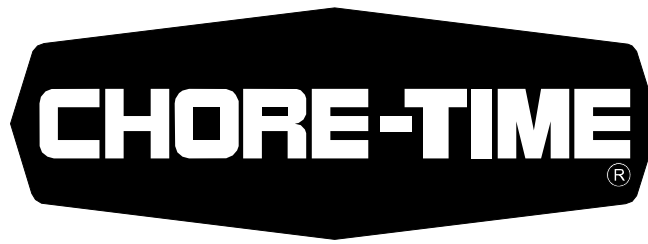


		56213 8 Spoke	56212 12 Spoke
Item	Description	Part No	
1	FFR Feed Pan	46480	46480
2	FFR Cone Assembly	56215	56215
3	8 Spoke FFR Grill	46834	--
	12 Spoke FFR Grill	--	46837
4	Plastic 35lb. Hopper w/Lid	35019-3	35019-3
5*	1/4-20 x .50 Phil. Screw	4424-1	4424-1
6*	1/4-20 Serrated Flange Nut	46460	46460
7*	9 Ga. Stainless Hook	2805	2805
8*	Chain	2128-250	2128-250
9*	10-24 x 4" Screw	53481	53481
10*	10-24 Lock Nut	34019	34019
11*	35 lb. Hopper Strap	53472	53472
12*	Support Bracket	53470	53470
13**	Adapter	53480	53480
*Included in 53473 Hopper Hanger Kit			
**Included in the 56215 Cone Assembly			



KONAVI® (56209) Feeder Assembly





**MADE TO WORK.**

**BUILT TO LAST.®**

**Revisions to this Manual**

<b>Page No.</b>	<b>Description of Change</b>	<b>ECO</b>
	Added all Manual Feeders and many other updates	35583

**Contact your nearby Chore-Time distributor or representative for additional parts and information.**

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