CHORE-TIME®

Valego® RDE-49 & RDE-58 Nest with Flat Roof & Pagoda™

For additional parts and information, contact your nearest Chore-Time distributor or representative.
Find your nearest distributor at: www.choretime.com/contacts

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Limited Warranty

LIMITED WARRANTY

CTB, Inc. ("Chore-Time") warrants the new CHORE-TIME Valego® 49 & 58 Nests 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"). Chore-Time provides for an extension of the aforementioned Warranty period ("Extended Warranty Period") with respect to certain Product parts. 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 and Extended 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**

Safety and General Information

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: Rotating 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.

Planning the System

Section Dimensions and Expulsion Unit Location

Dimensions for each Section and for Expulsion Units **shown below**.

Systems 50 Sections or less

If the number of sections in the house are 50 Sections or less; only one Expulsion Unit is required and is centered as shown in **Figure 1**.
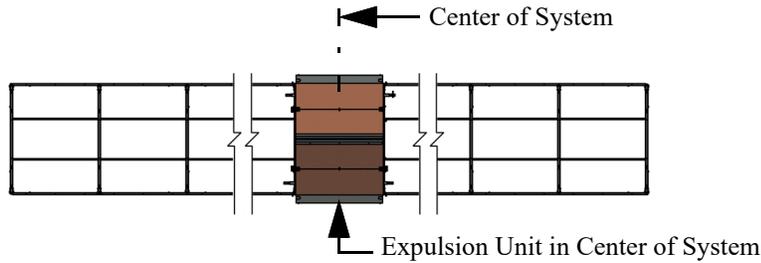
Figure 1.Systems less than 50 sections long

Systems longer than 50 Sections

If the number of sections in the house are more than 50; two Expulsion Units are required and it is recommended to be spaced as shown in **Figure 2**.
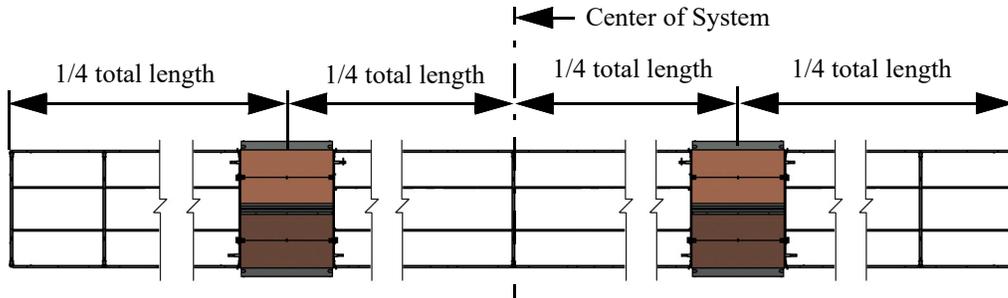
Figure 2.Systems 50 Sections and longer

Walkover Sections

A Walkover may be desired for long Spans to allow passage back and forth. If using two Expulsion units Chore-Time recommends centering the Walkover between Expulsion Units so there will not be any Expulsion Tubes to walk over. **(See below)**. A half Section Walkover is also available. **See "Walk Over Section" on page 38**
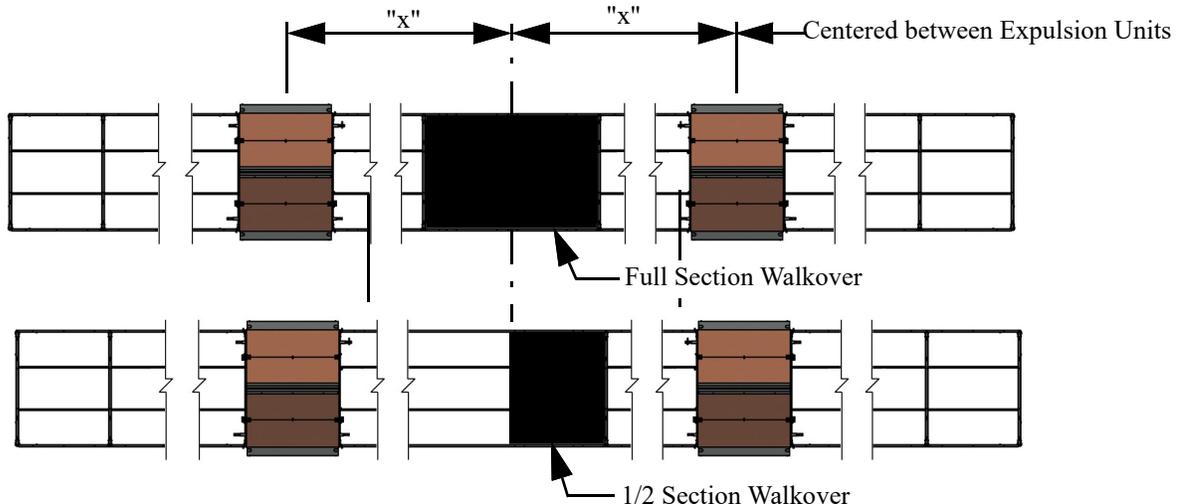
Figure 3.Walkover Sections

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Single Level and Pagoda Style Nest Installation

Important! Installation of the bottom level is exactly the same for both the Single Level and Pagoda (Two Level) systems. Follow these 1st steps while installing either system. The second part of this Installation section is specific to the Pagoda style systems.

Adjustable Leg Assembly

The Legs are adjustable. Use the appropriate Holes in the Leg Assemblies to achieve desired height.

1. Determine the desired height of the Legs and Assemble **as shown**.

Item	Description	Part No.
1	SS Leveling Leg	56674
2	Nest Leg	57315-X
3	M12 Leveling Plate	56997
4	Leveling Foot Weldment	57320
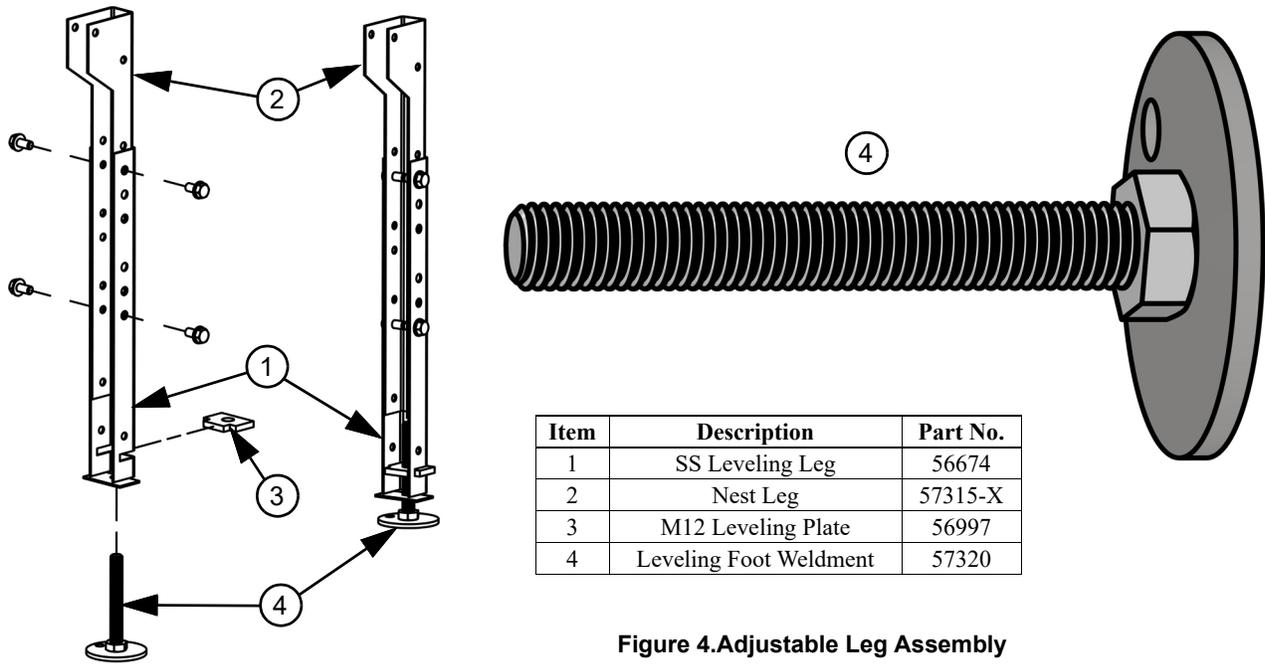
Figure 4.Adjustable Leg Assembly

Framework

Undercarriage

Heavy Duty Nest System (Legs spaced every 47-1/4" [120 cm])

1. At the end of the Framework, Fasten Leg Assemblies **(Item 1)** to Nest Crosses **(Item 2)** and Front Rails **(Item 3)** using Strut Strips **(Item 4)** with M8 Taptites **(Item 5) as shown.**

2. Attach a Nest Cross **(Item 2)**, Leg Assemblies **(Item 1)** and Strut Strips **(Item 4)** at the Center of each Front Rail with M8 Taptites **(Item 5).**

Important! Make sure that Undercarriage is **square and level** before continuing with system.
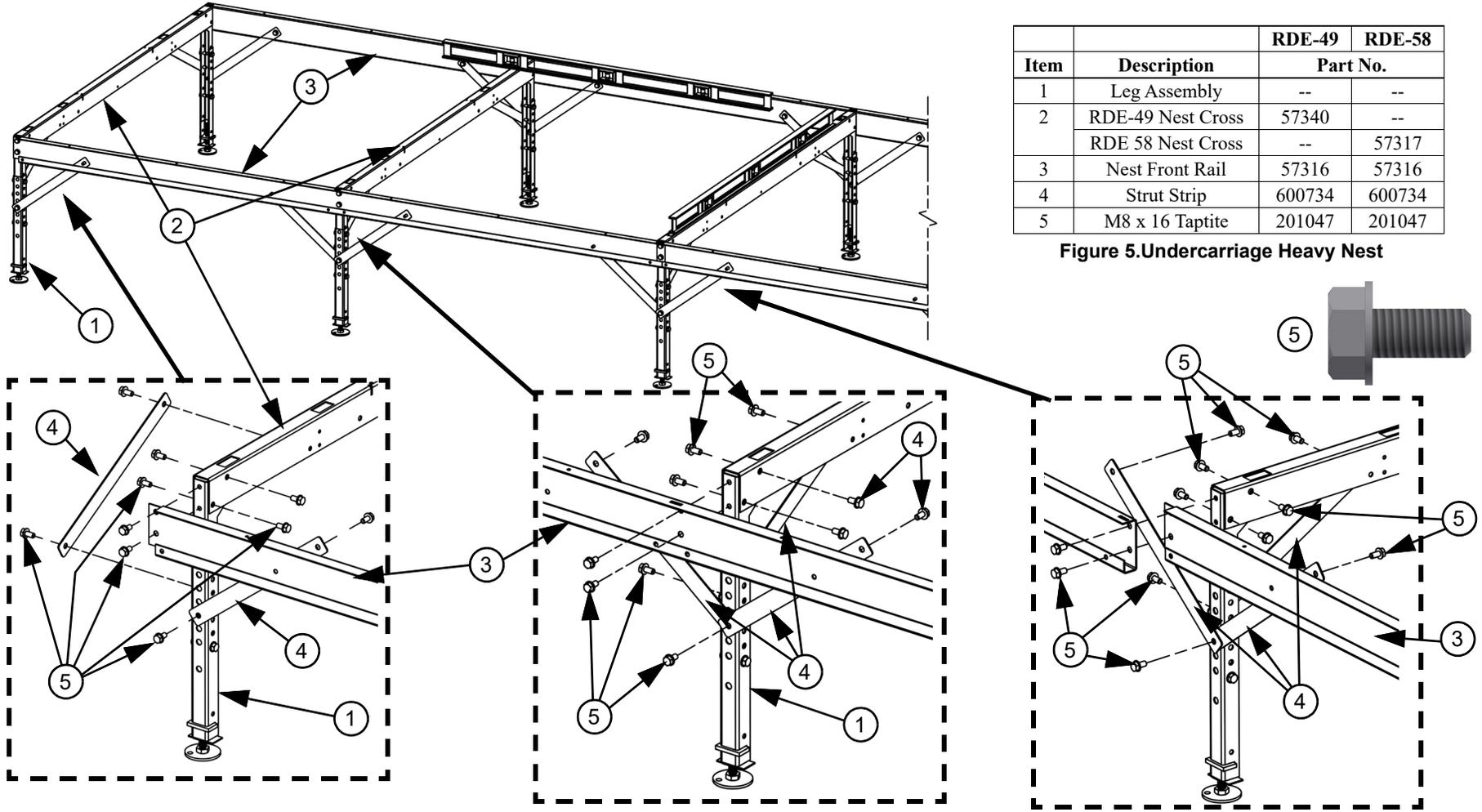
Item	Description	RDE-49	RDE-58
		Part No.	
1	Leg Assembly	--	--
2	RDE-49 Nest Cross	57340	--
	RDE 58 Nest Cross	--	57317
3	Nest Front Rail	57316	57316
4	Strut Strip	600734	600734
5	M8 x 16 Taptite	201047	201047

Figure 5.Undercarriage Heavy Nest

Regular Duty Nest System (Legs spaced every 94-1/2" [240 cm])

1. At the end of the Framework, Fasten Leg Assemblies **(Item 1)** to Nest Crosses **(Item 2)** and Front Rails **(Item 3)** using Strut Strips **(Item 4)** with M8 Taptites **(Item 5) as shown.**
2. Attach Nest Cross Brackets **(Item 6)** at the Center of each Front Rail with M8 Taptites **(Item 5).**
3. Fasten a Nest Cross **(Item 2)** to the Nest Cross Brackets with M8 Taptites **(Item 5).**

Important! Make sure that Undercarriage is **square and level** before continuing with system.

Square and Level
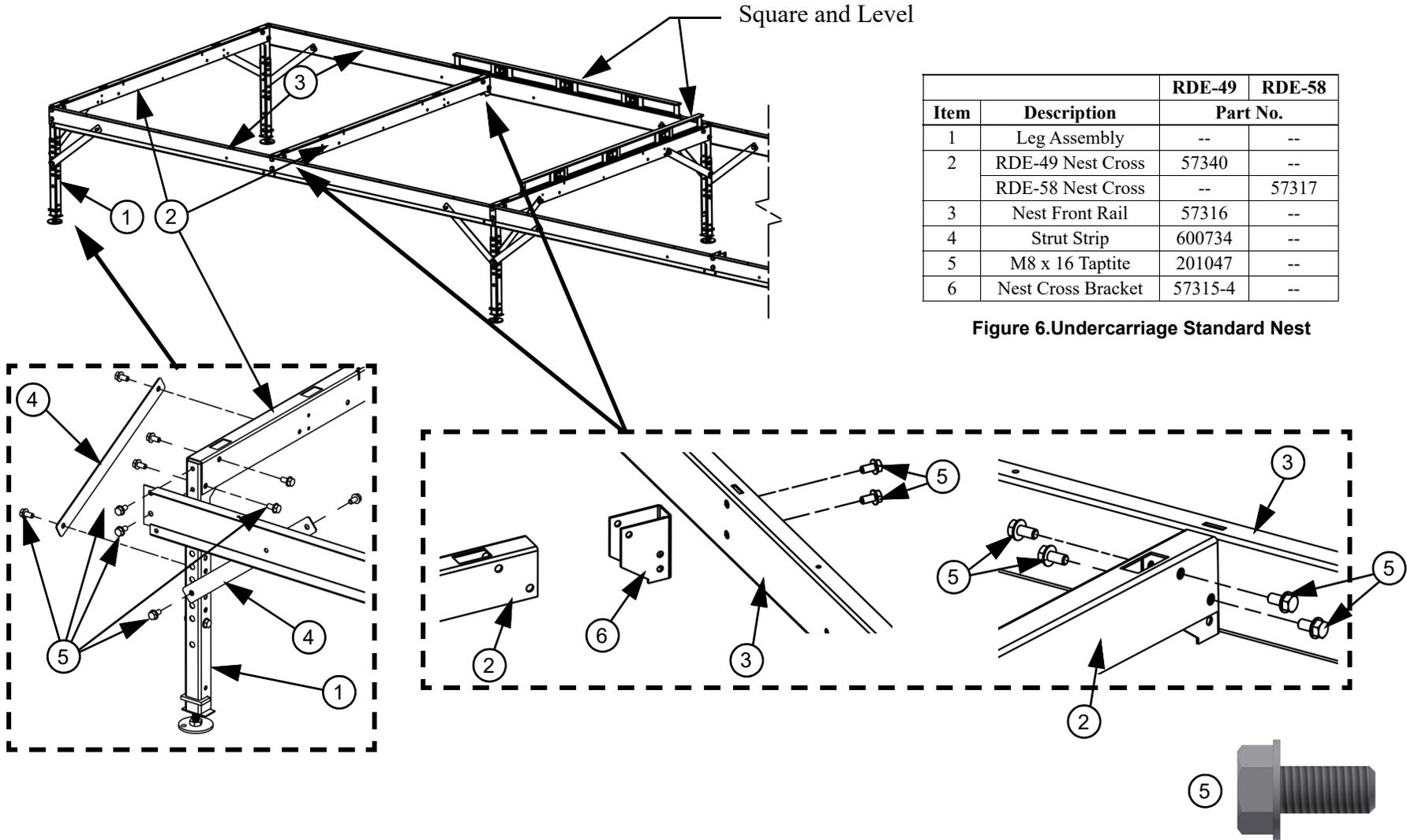
Item	Description	RDE-49	RDE-58
		Part No.	
1	Leg Assembly	--	--
2	RDE-49 Nest Cross	57340	--
	RDE-58 Nest Cross	--	57317
3	Nest Front Rail	57316	--
4	Strut Strip	600734	--
5	M8 x 16 Taptite	201047	--
6	Nest Cross Bracket	57315-4	--

Figure 6.Undercarriage Standard Nest

Egg Belt Installation

Return Egg Belt

1. Install the Egg Belt Drive Unit and Egg Belt Return Unit.
2. Start with the Egg Belt Roll/Rolls **(Item 1)** at the Belt Drive end and pull the Belt to the other end **as shown**.

Two Belt System
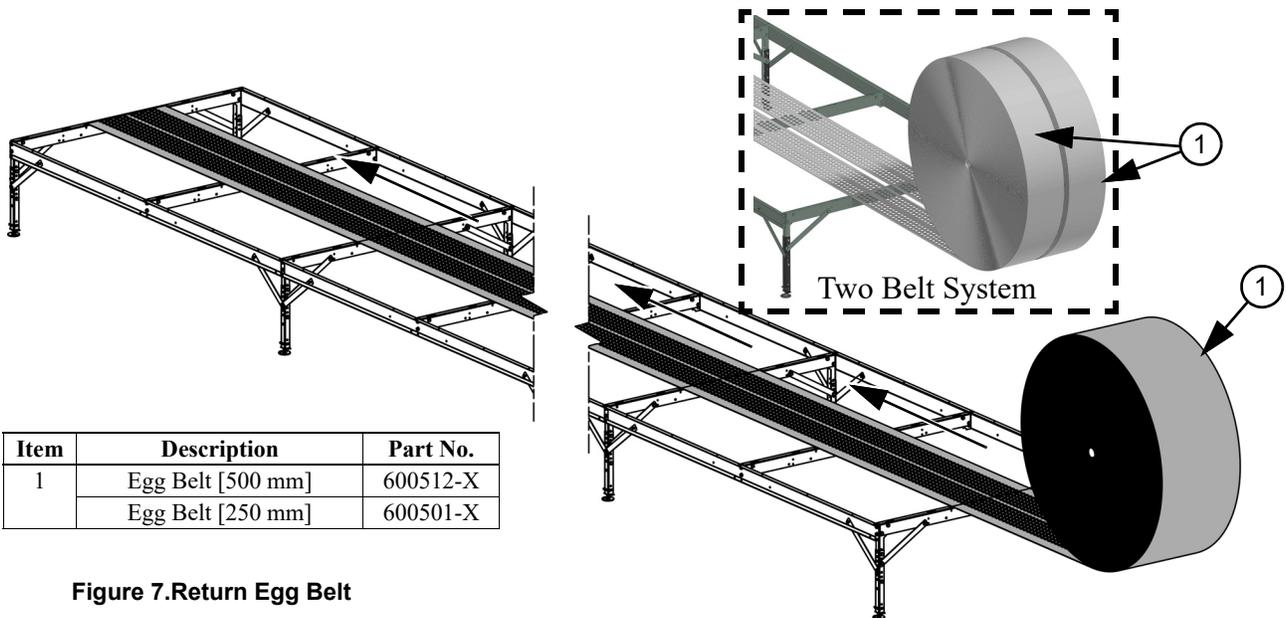
Item	Description	Part No.
1	Egg Belt [500 mm]	600512-X
	Egg Belt [250 mm]	600501-X

Figure 7.Return Egg Belt

Egg Belt Supports

1. Install Egg Belt Trays **(Item 1)** by inserting the wires into the holes in the Nest Crosses **(Item 2) as shown**.
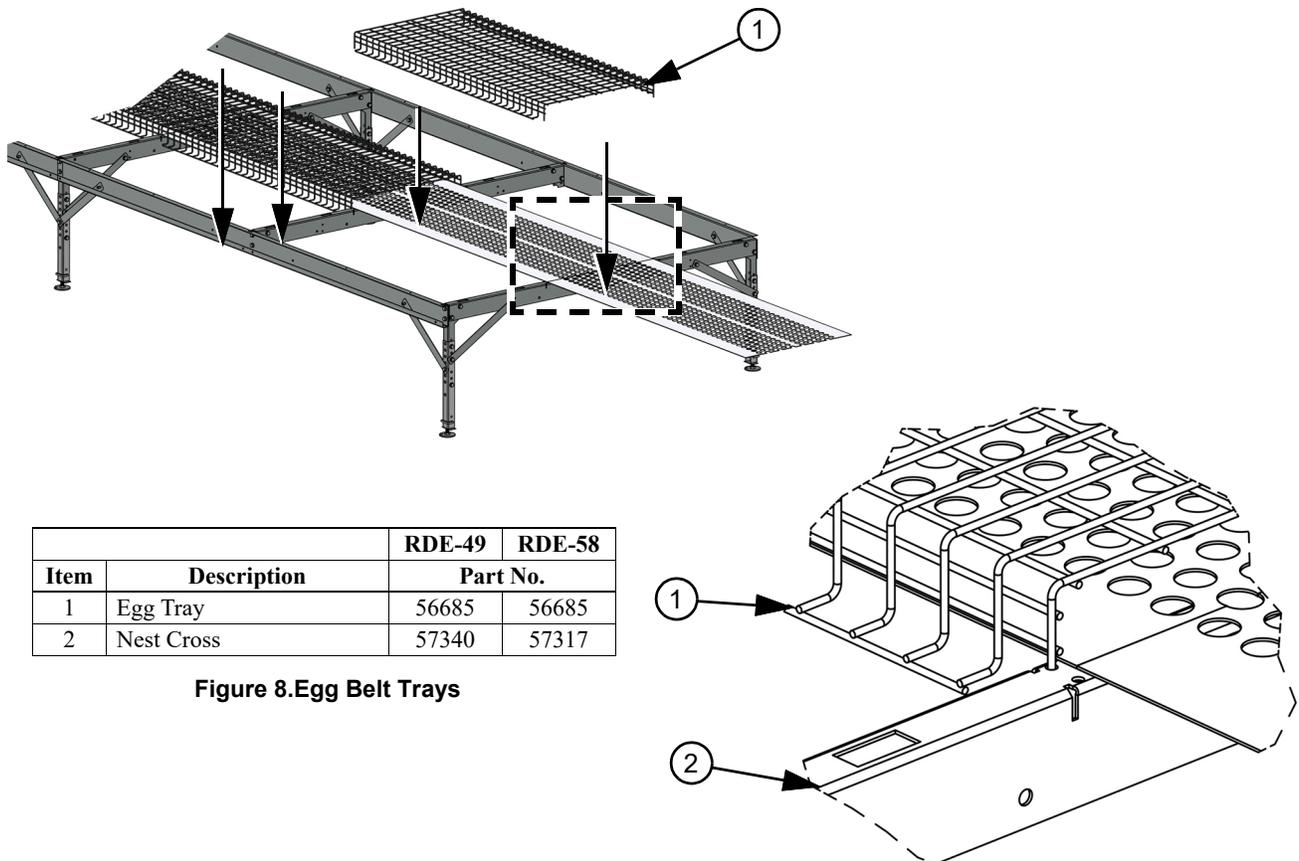
		RDE-49	RDE-58
Item	Description	Part No.	
1	Egg Tray	56685	56685
2	Nest Cross	57340	57317

Figure 8.Egg Belt Trays

Bottom Rails/Expulsion Plates

1. Install Nest Bottom Rails **(Item 1)** in the slots in the Nest Front Rails **(Item 2)** from the front all the way to the back of the system **as shown**.
2. At Expulsion Units Install Egg Expulsion Plates **(Item 3) as shown**.

Expulsion Unit

Item	Description	RDE-49	RDE-58
		Part No.	
1	Nest Bottom Rail	56683	56683
2	Nest Cross	57340	57317
3	Egg Expulsion Plate	57206	57206
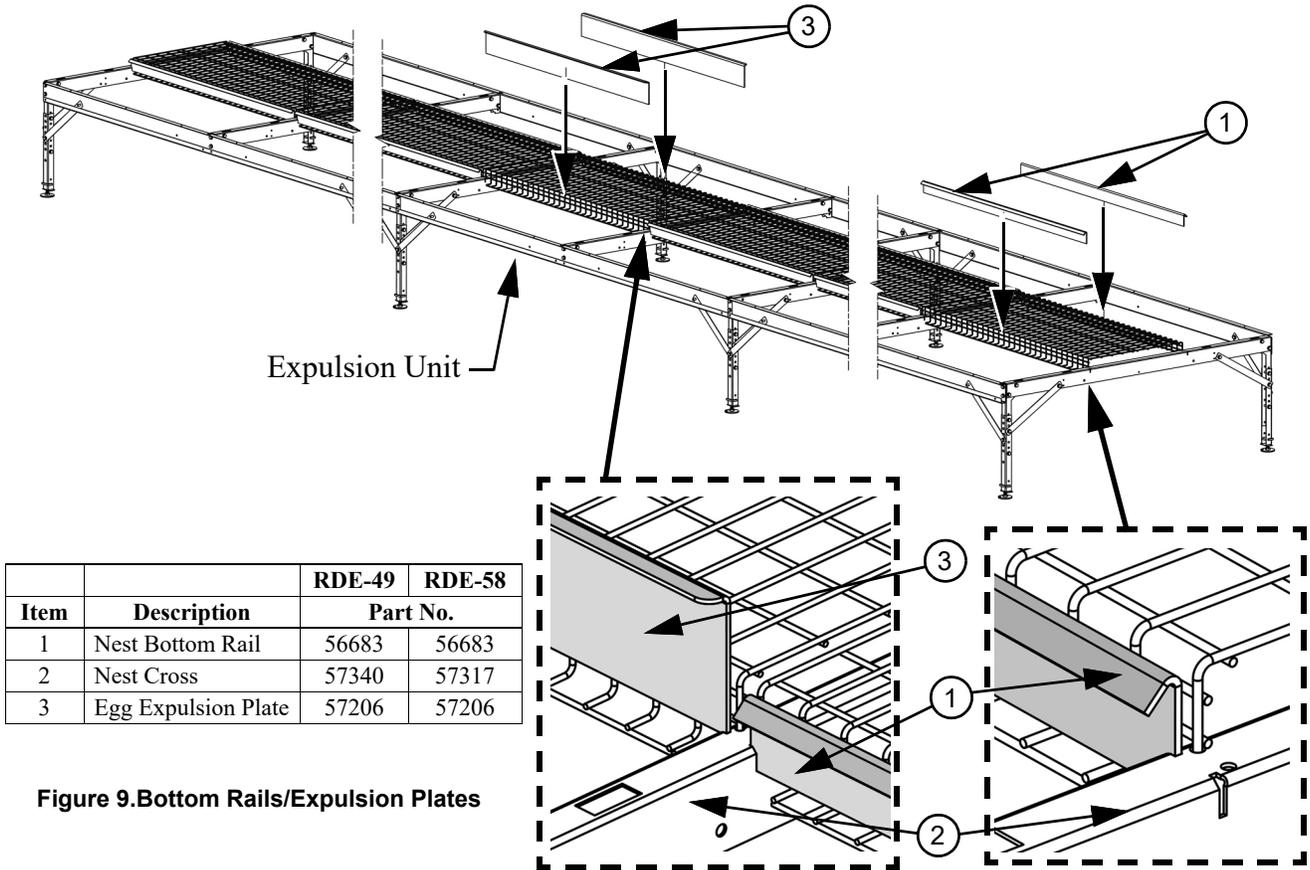
Figure 9.Bottom Rails/Expulsion Plates

Egg Belt Dividers (Two Belt System)

1. Snap Egg Belt Dividers **(Item1)** onto the end of the Egg Trays **(Item 2)** every 47-1/2" [120.7cm] **as shown**.

Snap in Place

47-1/2" [120.7cm]

Item	Description	Part No.
1	Egg Belt Dividers	57441
2	Egg Tray	600410
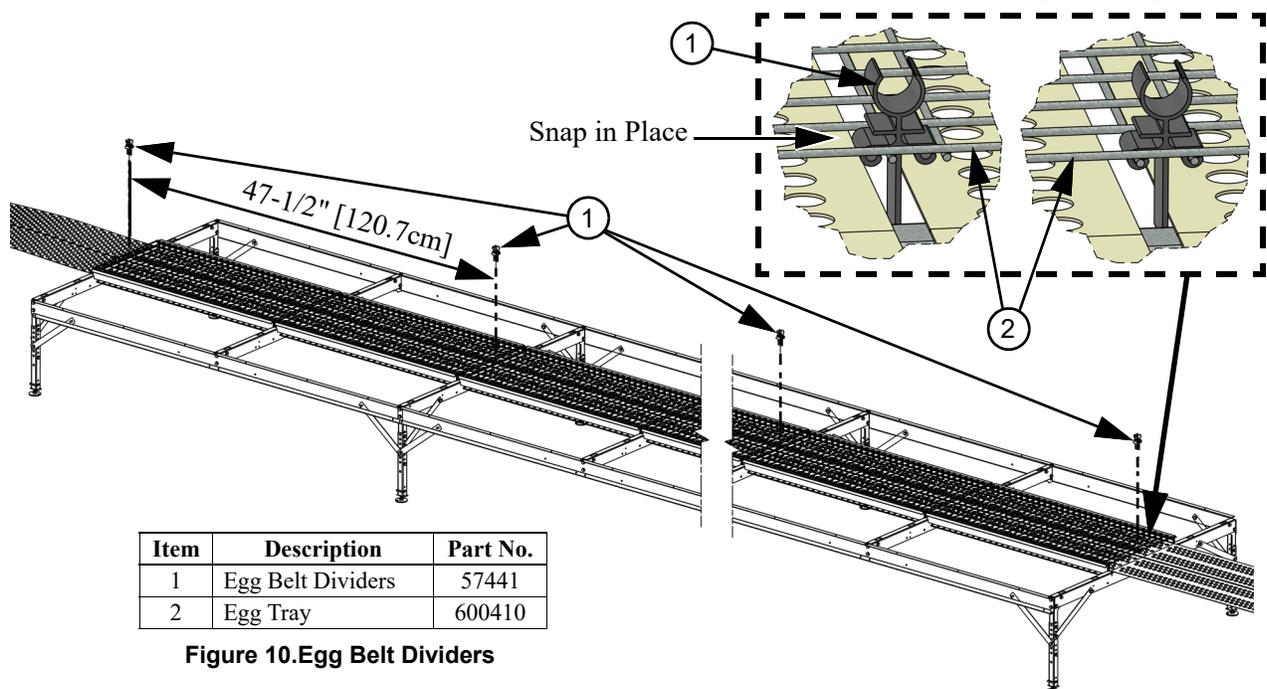
Figure 10.Egg Belt Dividers

Egg Belt Dividers

1. Feed the Egg Belt through the Return Unit **(Not Shown)** and pull the Belt back to the Drive Unit.
2. For Two Belt Systems, make sure that the Belt is under the Tabs of the Egg Belt Dividers **(Item 1) as shown**.

Lay Egg Belt on top of Egg Belt Supports
    and route back to Drive Unit.

Tabs
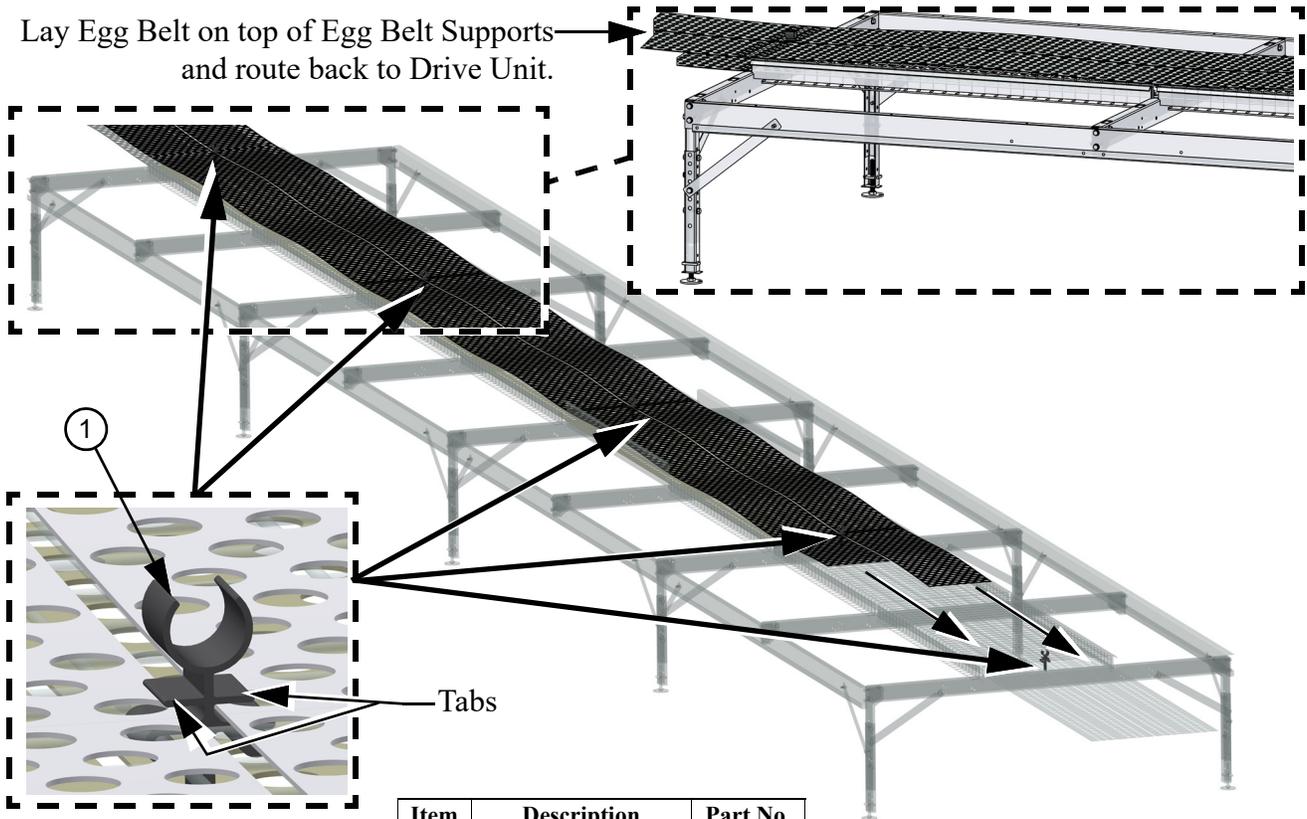
Item	Description	Part No.
1	Egg Belt Dividers	57441

Figure 11.Egg Belt Dividers

Egg Belt Divider Tubes

1. Install 1/2" PVC Pipe (Not Included) in the Egg Belt Dividers **(Item 1) as shown**.
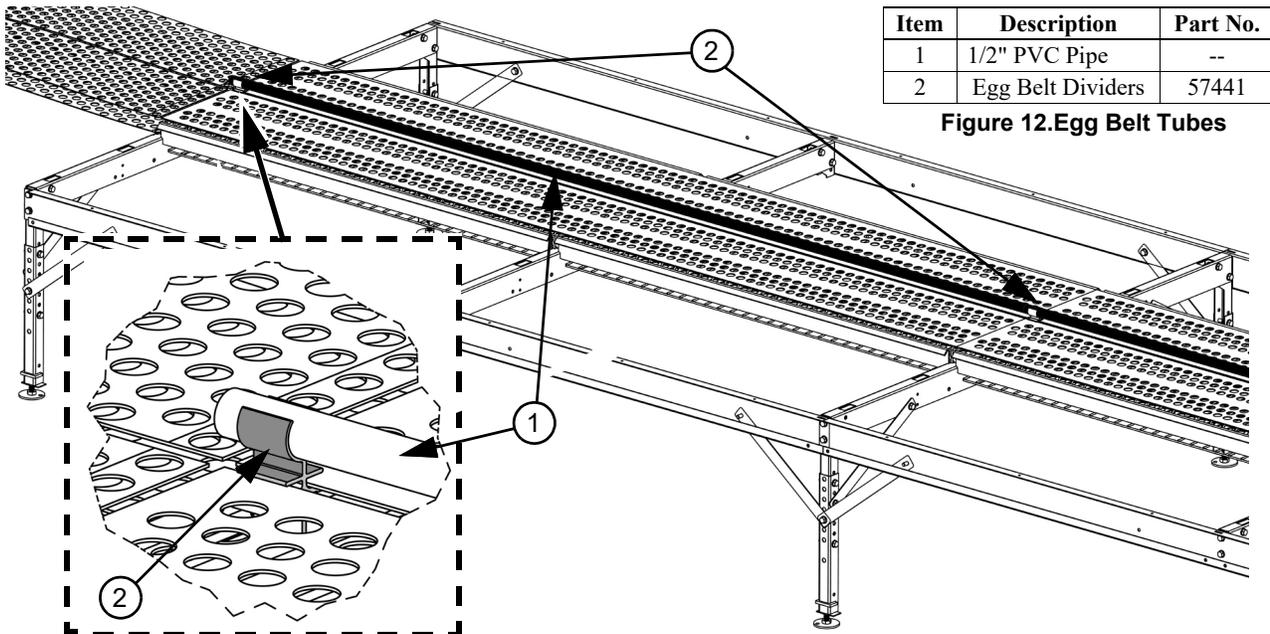
Item	Description	Part No.
1	1/2" PVC Pipe	--
2	Egg Belt Dividers	57441

Figure 12.Egg Belt Tubes

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Rack Plate/Side Panel Installation

1. Attach Toothed Rack Plates **(Item 1)** and Corner Brackets **(Item 2)** to the Side Panels **(Item 3) as shown**.
    - **Side Panels at end of System** get one Rack Plate and one Corner Bracket. Use Two M6 Taptites **(Item 4)** and one M6 Nut **(Item 5)**.
    - **"A" location Side Panels <u>do not</u>** get Rack Plates. Fasten two Corner Brackets with M6 Taptites using the smaller holes in the Brackets.
    - **"B" location Side Panels** get a Rack Plate and two Corner Brackets
    - **Side Panels at Expulsion Unit location**- Toothed Rack Plates both face each other **(towards Inside)** of the Expulsion Unit **as shown**.
2. Continue installing Rack Plates, to the end of the system. The End Side Panels get one Corner Bracket **(See Detail)**.

<u>**See next page for Details**</u>

Rack Plates face each other at Expulsion Unit

"A"
"A"
"A"
"B"
"B"
"A"
"A"

See Detail Next Page

See Detail Next Page

See Detail Next Page

Expulsion Unit See Detail Next Page

See Detail Next Page
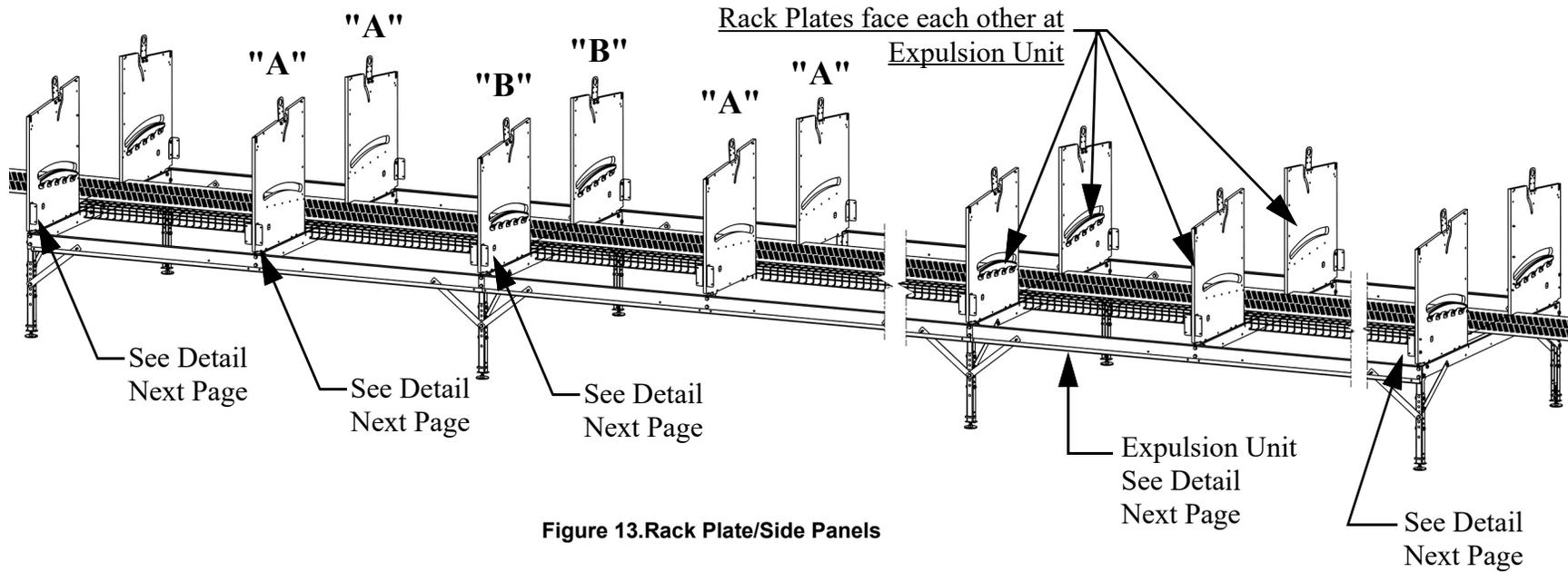
Figure 13.Rack Plate/Side Panels
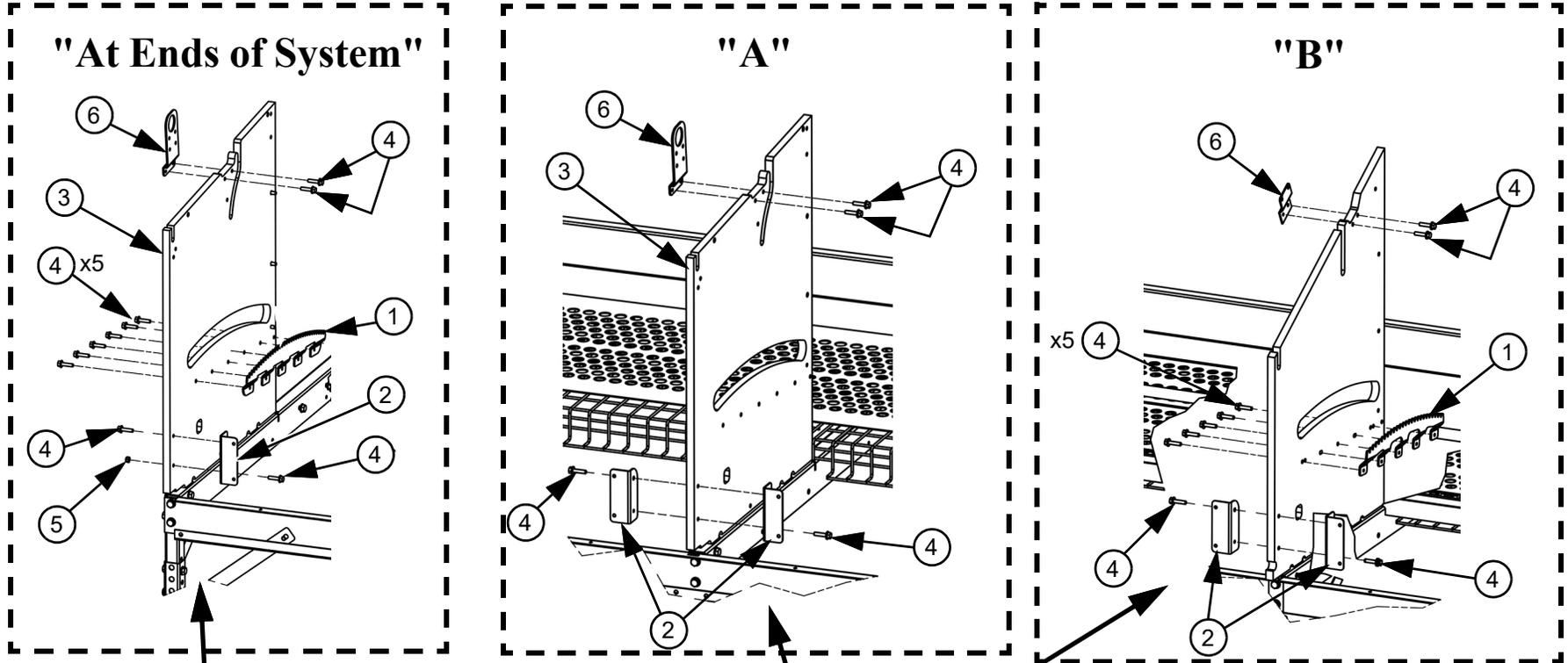
"At Ends of System"

"A"

"B"

Tap Hole
(Smaller Diameter)

Tap Hole
Smaller Diameter

Tap Hole
(Smaller Diameter)

		RDE-49	RDE-58
Item	Description	Part No.	
1	RDE Toothed Rack Plate	56680	56993
2	Corner Bracket	56692	56692
3	RDE Side Panel	57331	57324
4	M6 x 25 DIN7500-D Taptite	201067	201067
5	M6 DIN985 Lock Nut	201037	201037
6	Double Hinged Roof Z-Part	57323	57323

Figure 14.Rack Plate/Side Panels
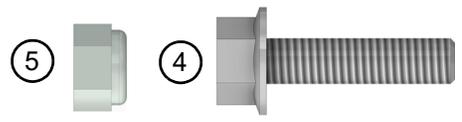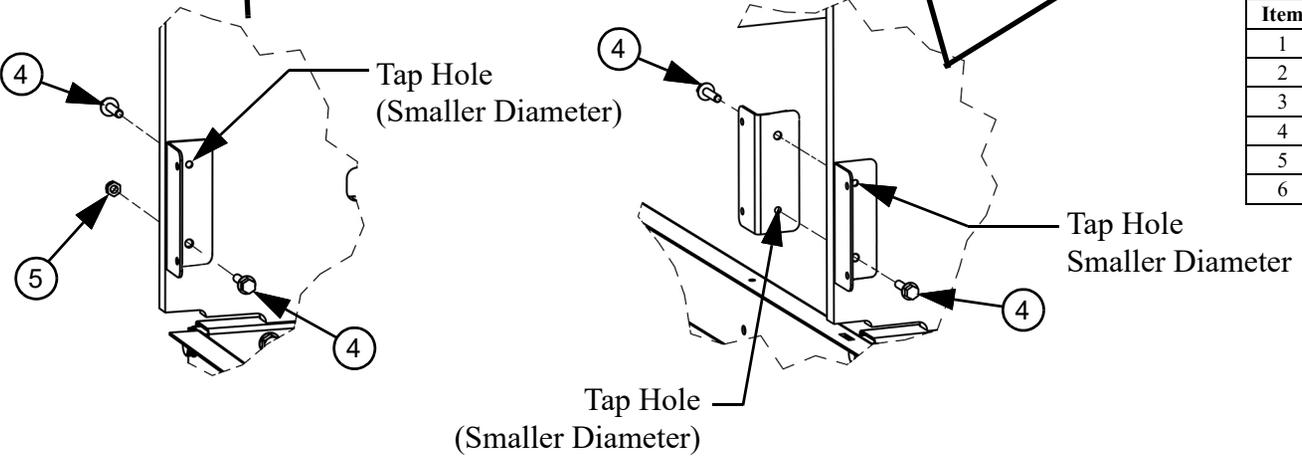
At Expulsion Unit

Attach Corner Brackets and Hinges exactly the same on both sides of the system with Rack Plates towards the inside of the Expulsion Unit **as shown**.
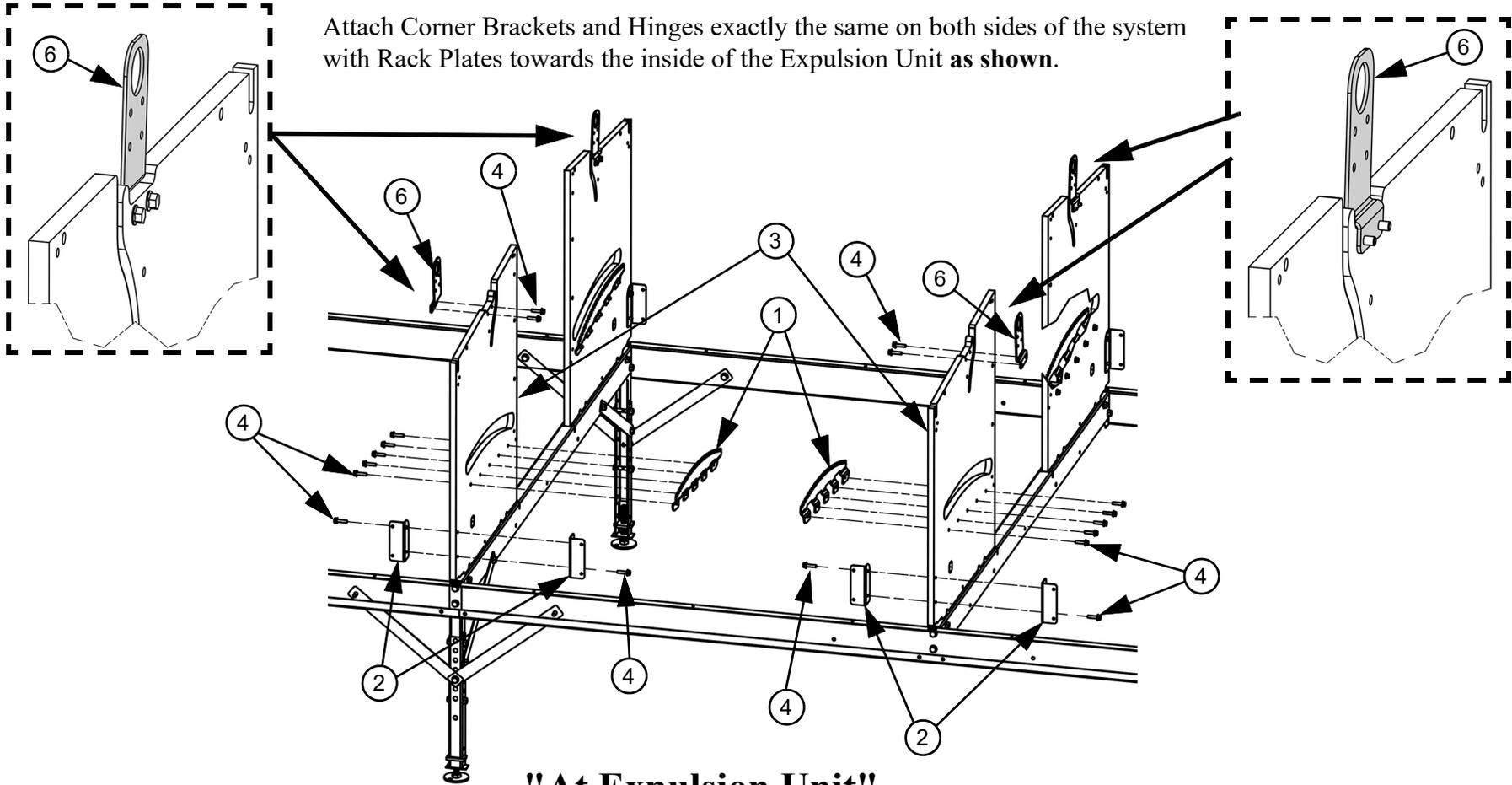
"At Expulsion Unit"

Item	Description	RDE-49	RDE-58
		Part No.	
1	RDE Toothed Rack Plate	56680	56993
2	Corner Bracket	56692	56692
3	RDE Side Panel	57331	57324
4	M6 x 25 DIN7500-D Taptite	201067	201067
5	M6 DIN985 Lock Nut	201037	201037
6	Flat Top Hinge	57323	57323

Figure 15.Rack Plate/Side Panels

Egg Curtains

⚠️ **Important!** Orient Rivets **as shown** with Heads toward the Belt area to keep points of Rivets are away from the bird area.

1. Assemble Nest Back Rails **(Item 1)** to Egg Curtains **(Item 2)** with 2 Piece Rivets **(Item 3) as shown**.

2. Attach the Egg Curtain Assembly you just assembled to the Side Panels with M6 Taptites **(Item 4)**. Use Locknuts **(Item 5)** at the end of the System.

Important! Orient Rivets **as shown** with points toward the Belt Area to keep the Rivet points out of Bird area.

Expulsion Unit

Item	Description	Part No.
1	Nest Back Rail	56684
2	Egg Curtain	56863
3	2 Piece Rivet	56879
4	M6 x 25 DIN7500-D Taptite	201067
5	M6 DIN985 Lock Nut	201037
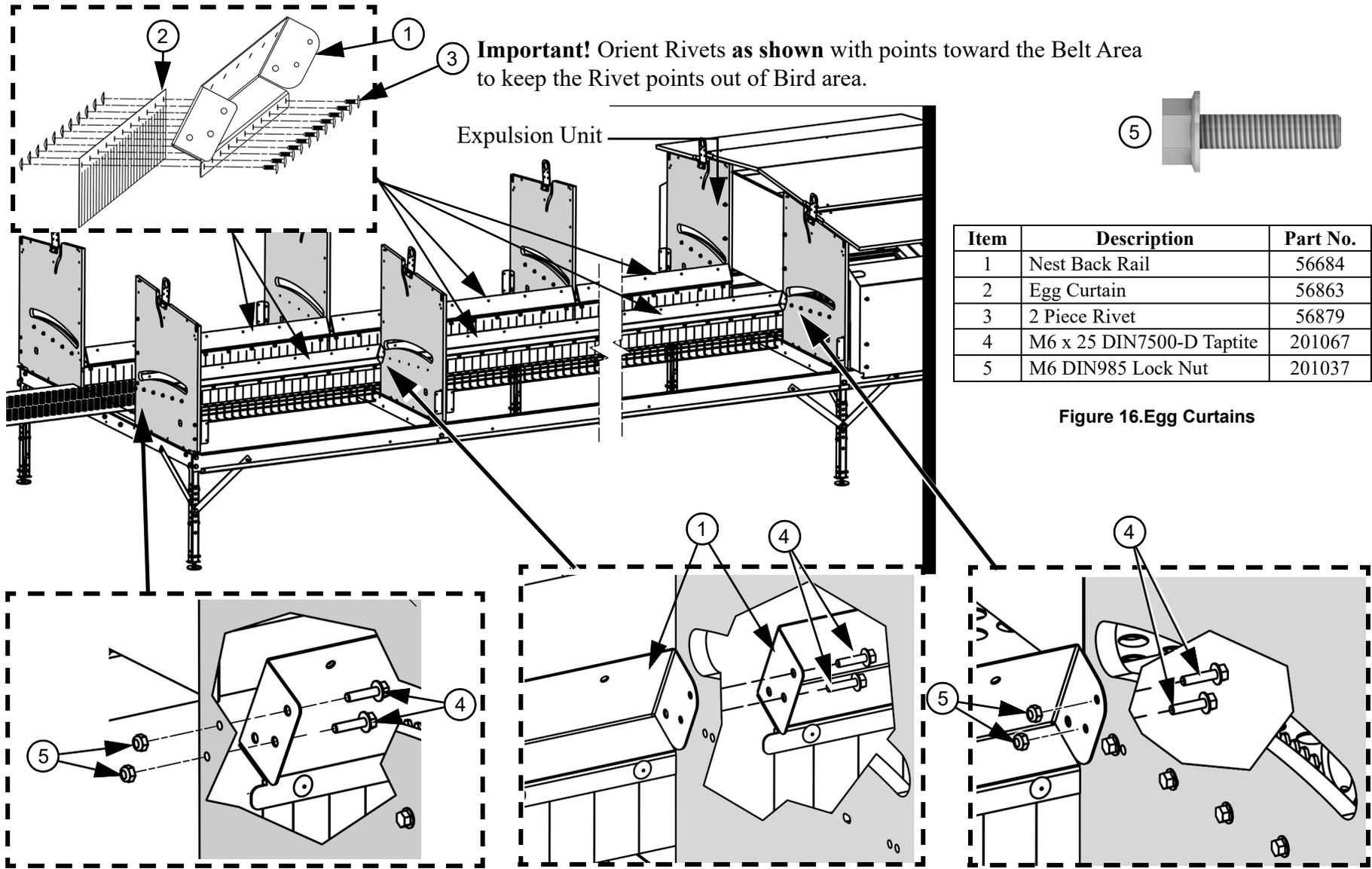
Figure 16.Egg Curtains

Entrance Board Installation

⚠️ **Important!** When fastening Entrance Boards install Screws in center of Board first to avoid out of square issues.

1. Attach Entrance Boards **(Item 1)** to the Corner Brackets with M6 Taptites **(Item 2) as shown**.
2. At 1.2 M Walkovers and Expulsion Units use 1.2M Nest Entrance Boards **(Item 3)**.

⚠️ Fasten Boards at center first to avoid out of square issues.

1.2 M Walkover

Expulsion Unit
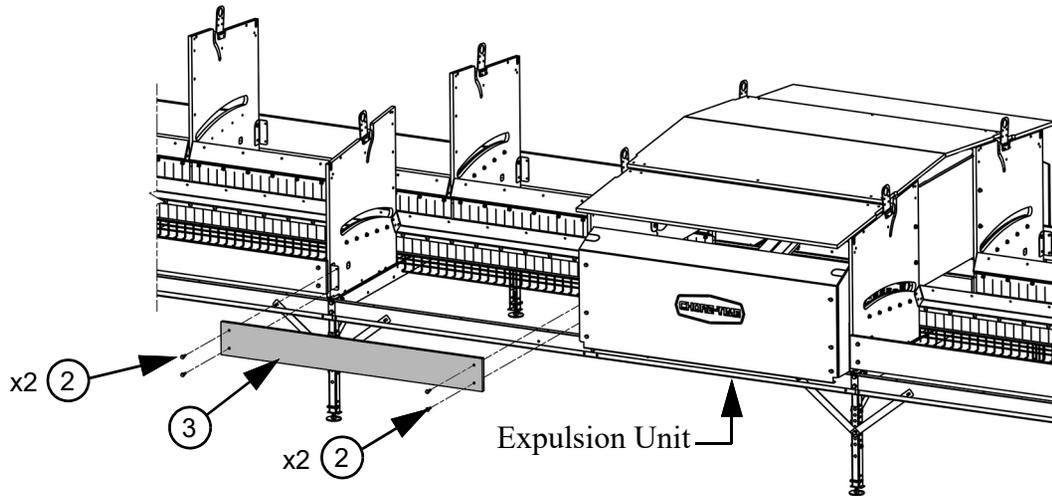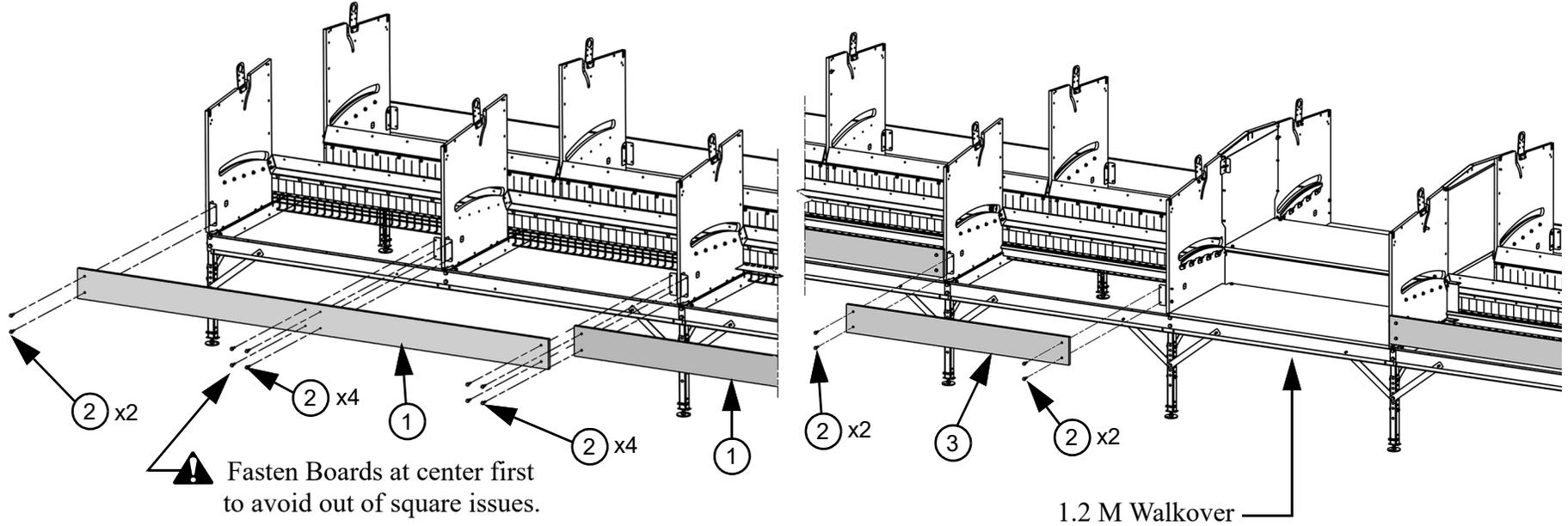
Item	Description	Part No.
1	2.4M Nest Entrance Board	56691
2	M6 x 25 DIN7500-D Taptite	201067
3	1.2M Nest Entrance Board	56691-1

Figure 17. Entrance Boards
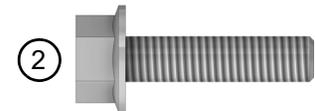
Draft Board Installation

Note: Draft Boards are optional.

1. Install Support Wires **(Item 1)** as shown by inserting them into the holes in the Nest Front Rails **(Item 2)** and Nest Bottom Rails **(Item 3)**.
2. Rest Draft Board Sheets **(Item 4)** on the Wires.
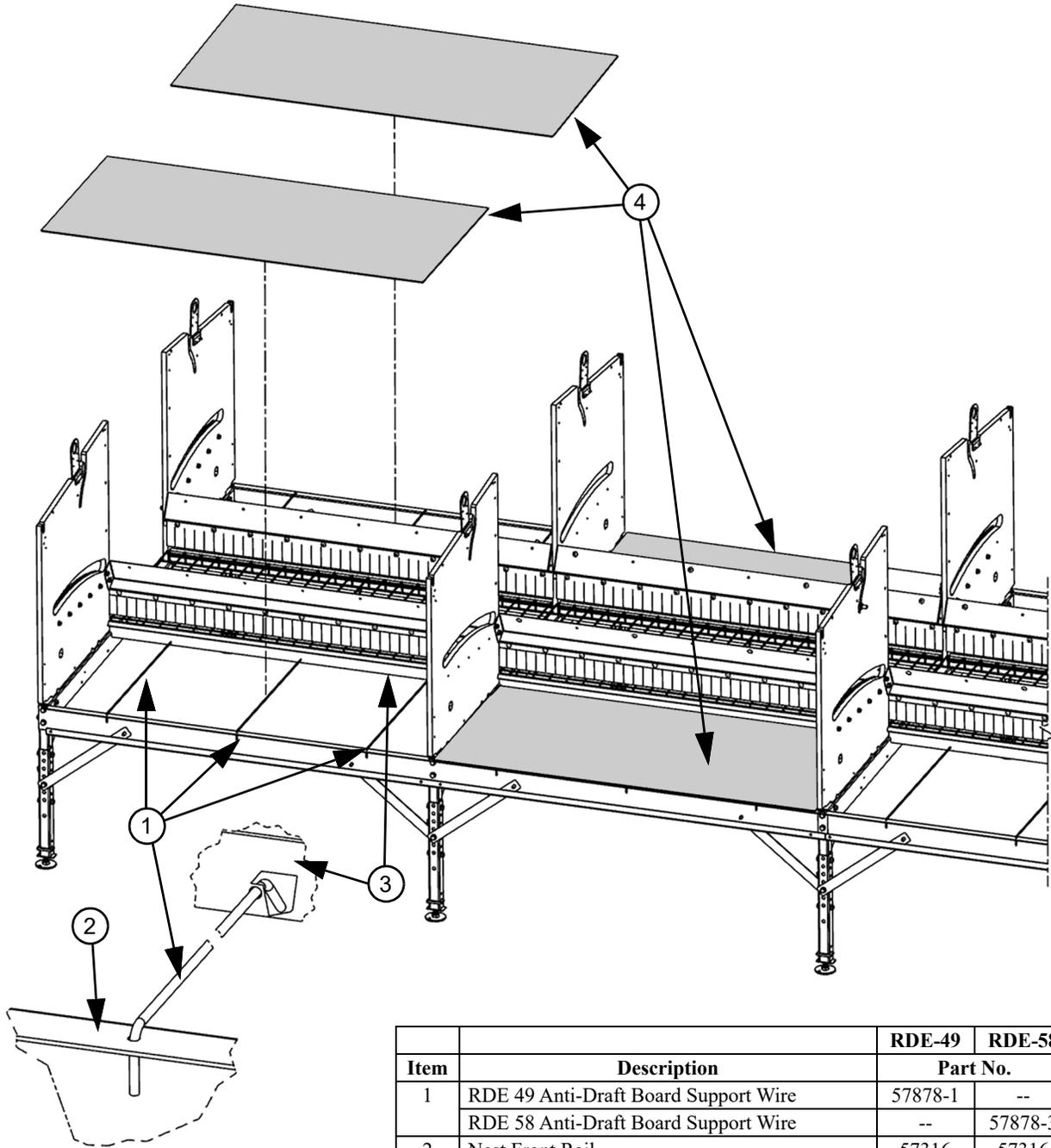
		RDE-49	**RDE-58**
Item	**Description**	**Part No.**	
1	RDE 49 Anti-Draft Board Support Wire	57878-1	--
	RDE 58 Anti-Draft Board Support Wire	--	57878-3
2	Nest Front Rail	57316	57316
3	Nest Bottom Rail	56683	56683
4	RDE 58 1175mm x 580mm Draft Board Sheet	600677	--
	RDE 49 1175 x 490mm Draft Board Sheet	--	600654

Figure 18.Draft Boards

Floor Pipe Installation

1. Install a Support Tube **(Item 1)** by inserting it into the square holes in the Side Panels **(Item 2) as shown**. Let the Tubes extend approximately 1-1/2" [3.81 cm] at the end of the system.
2. Attach Tubes together using M6 Screws **(Item 3)** in the holes provided in the Tubes.
3. Tubes need to be cut off at the Expulsion Unit and at Walkways. Cut pipes leaving 1-1/2" [3.81 cm].
4. Install Plastic Caps **(Item 4)** in the ends of all of the Floor Support Tubes.

Expulsion Unit

No Tubes at Expulsion Units and Walk-Over.

Walk-Over

Expulsion Unit
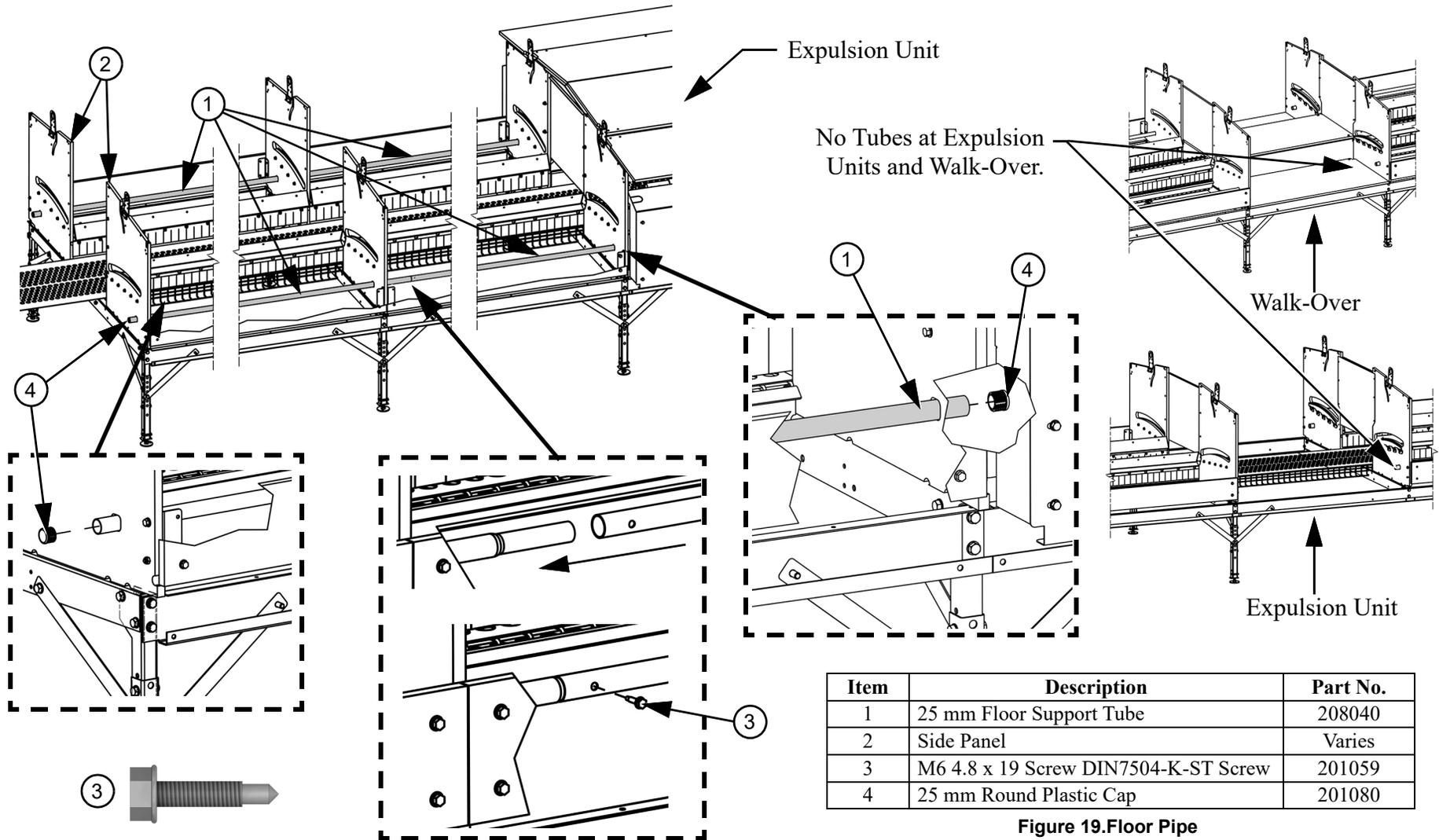
Item	Description	Part No.
1	25 mm Floor Support Tube	208040
2	Side Panel	Varies
3	M6 4.8 x 19 Screw DIN7504-K-ST Screw	201059
4	25 mm Round Plastic Cap	201080

Figure 19.Floor Pipe

Nest Bottom Installation

1. Install Nest Bottoms **(Item 1)** by centering them in each Nest section and resting them on the Floor Support Tubes **(Item 2)** and Nest Rail Bottoms **as shown**. **Note** the direction of Bend in Nest Bottom.
2. Fasten each Nest Bottom to the Floor Support Tubes by crimping on three Nest Floor Wire Clips **(Item 4)**

Make sure Nest Bottoms are above the Taptites in Entrance Boards.

Taptite

Bend in Nest Bottom toward Egg Belt

Crimp Wire Clip to fasten Nest Bottom to Floor Support Tube.
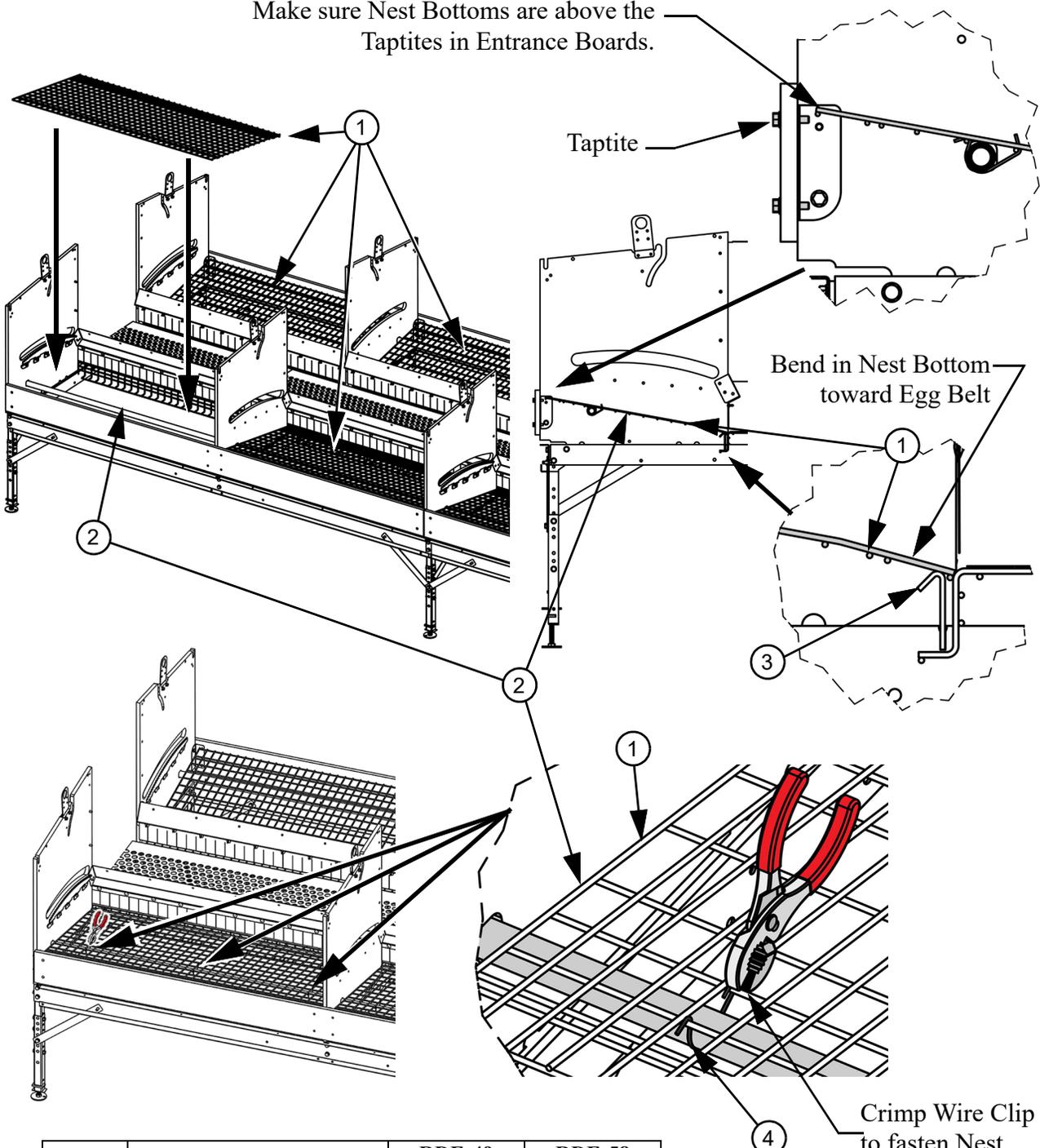
Item	Description	RDE-49	RDE-58
		Part No.	
1	RDE Nest Bottom	57128	57296
2	25 mm Floor Support Tube	208040	208040
3	Nest Bottom Rail	56683	56683
4	Nest Floor Wire Clip	57004	57004

Figure 20.Nest Bottom

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Nest Pad Installation

1. Slide two Nest Pad Clips **(Item 1)** onto each nest Pad **(Item 2) as shown**.
2. Place the Nest Pads on the Nest Bottoms while snapping the Nest Pad Clips onto the Nest Entrance Boards.

Item	Description	RDE-49	RDE-58
		Part No.	
1	Nest Pad Clip	201223	201223
2	RDE 49 Nest Pad	600355	--
	RDE 58 Nest Pad	--	600357
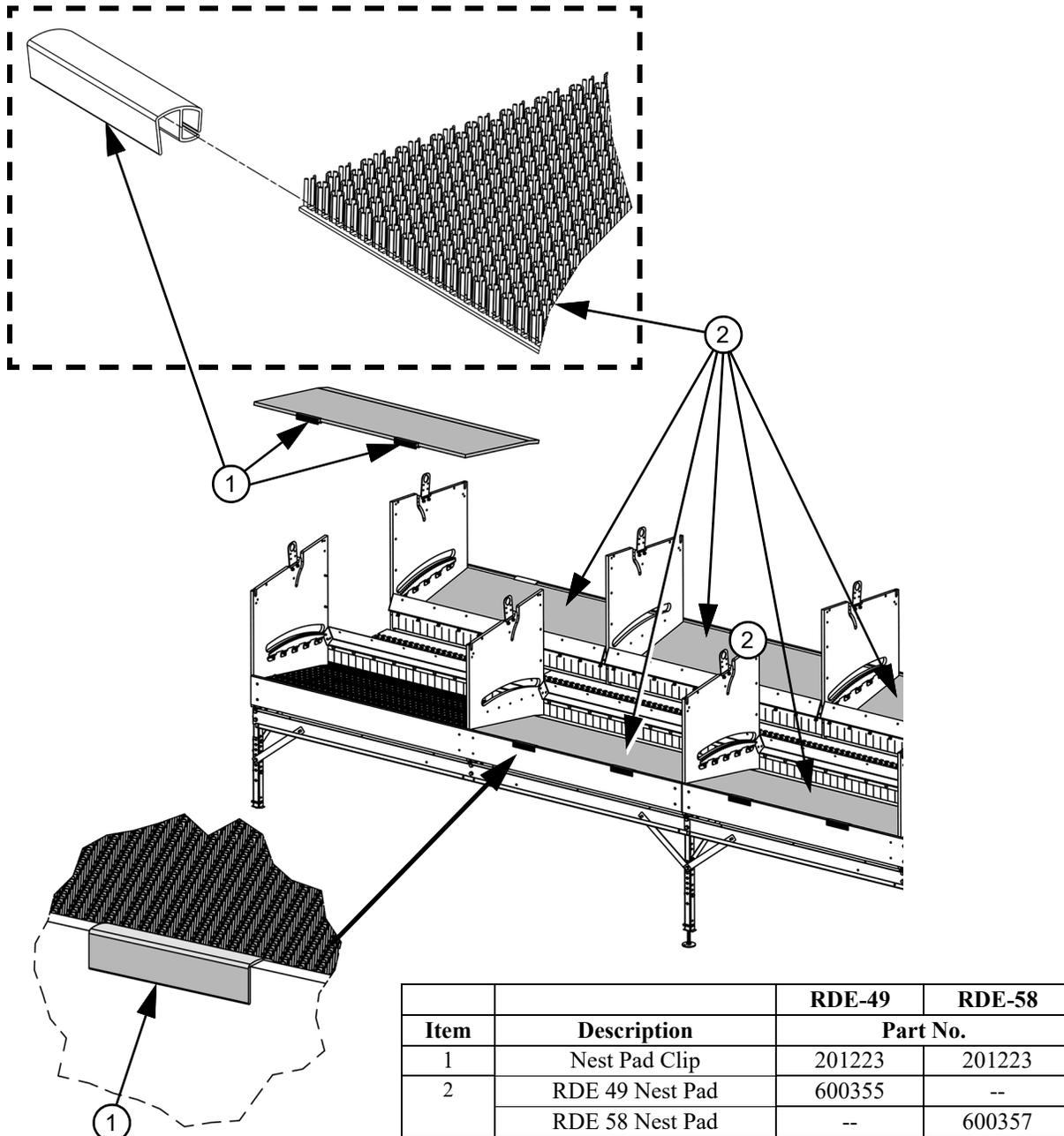
Figure 21.Nest Pad Installation

Back Wall Installation

Important! Pagoda Style Nests require special components be installed before the Back Wall Installation. Skip to **"Pagoda Systems" on page 50** if installing a Pagoda system. After installing those components you can return to this page and continue installing Back Walls.

Make sure the Flange of the Nest Wall Brackets are toward the top **as shown** (They are not symmetrical).

Nest Wall Brackets & Walkover/End Panels

1. Starting at the End of the System, on one side fasten the End Walkover Panel **(Item 1)** and a Nest Wall Start Bracket **(Item 2)** with M6 Taptites **(Item 3) as shown**. Also fasten the End Walkover Panel with two additional Taptites.
2. Cut off the end of the Nest Wall Bracket **(Item 4)** and use the Start Bracket as a guide to drill a hole in it and attach with a M6 Taptite **(Item 3)**.
3. On the other side of the Nest Fasten the End Walkover Panel and other Nest Wall Bracket **(Item 4)** with M6 Taptites.
4. Continue installing Nest Wall Brackets attaching them to each other and Side Panels until reaching Expulsion Units or Walkways. **See "At Expulsion Units and Walkways." on page 23.**

Cut off end of the Nest Wall Brackets **(Item 1)**

Drill holes in the Nest Wall PP Bracket.
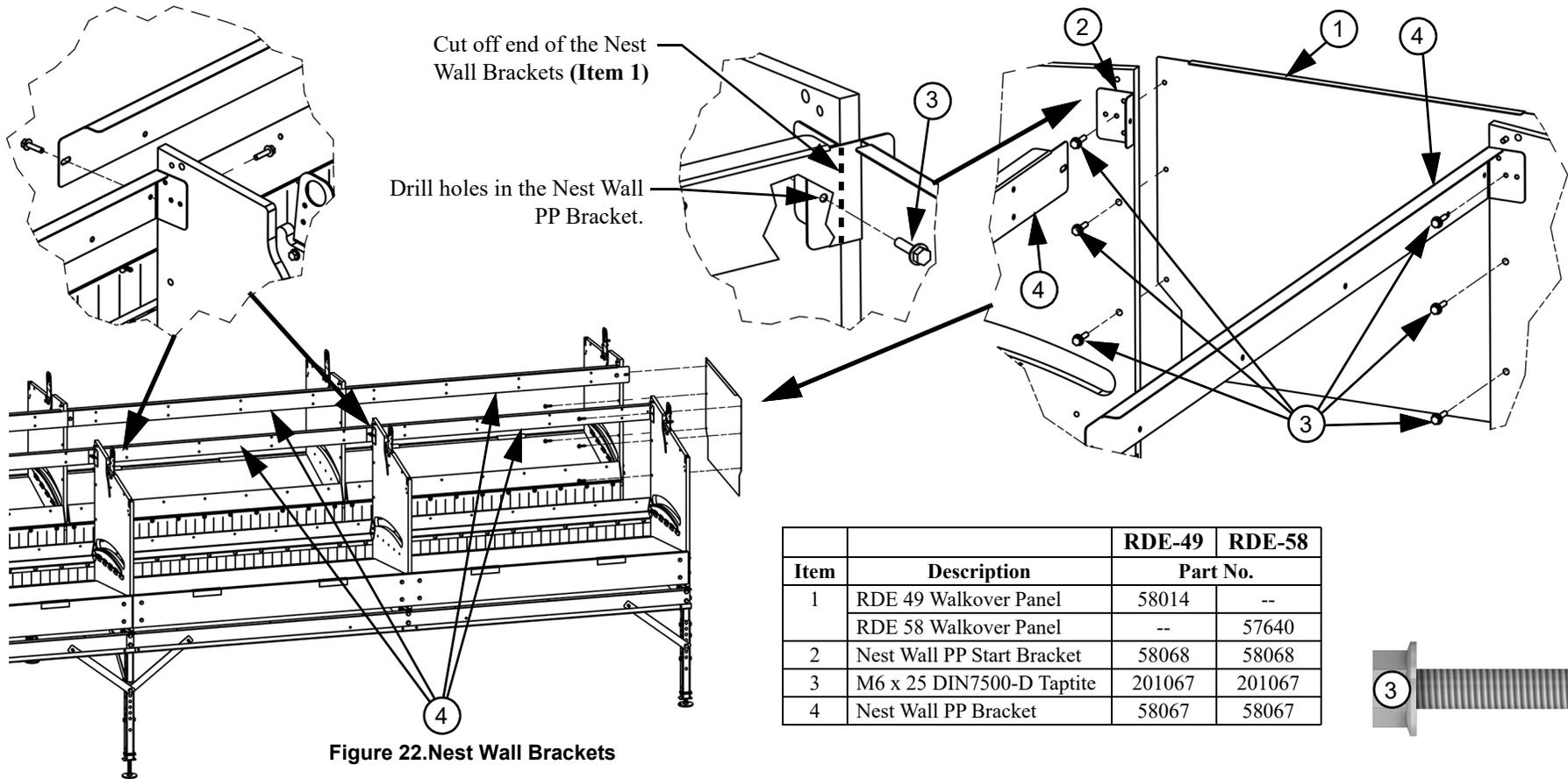
Figure 22. Nest Wall Brackets

		RDE-49	**RDE-58**
Item	**Description**	**Part No.**	
1	RDE 49 Walkover Panel	58014	--
	RDE 58 Walkover Panel	--	57640
2	Nest Wall PP Start Bracket	58068	58068
3	M6 x 25 DIN7500-D Taptite	201067	201067
4	Nest Wall PP Bracket	58067	58067

At Expulsion Units and Walkways.

Assemblies shown with Expulsion Unit already assembled. **See "Expulsion Unit" on page 26.**

1.At Expulsion Units and Walkways, Cut off the ends of Nest Wall Brackets **(Item 1)** when necessary.
2.Attach Nest Wall Start Brackets **(Item 2)** to the Walkover Panels using M6 Taptites **(Item 4)**.
3.Cut off the end of the Nest Wall PP Bracket **(Item 1)**, use the Start Bracket as a guide to drill a hole in it, and attach with a M6 Taptite **(Item 4)**.
4.Attach the Nest Wall Brackets to the Nest Wall Start Brackets or the Walkover Panels directly with M6 Taptites **as shown**.

Expulsion Unit (Same at Walkovers)

Use the Center Hole

Cut off end of the Nest Wall
Brackets where necessary.

Drill a hole in the Nest Wall
PP Bracket

		RDE-49	RDE-58
Item	**Description**	**Part No.**	
1	Nest Wall PP Bracket	58067	58067
2	Nest Wall PP Start Bracket	58068	58068
3	RDE-49 Walkover Panel	58014	--
	RDE-58 Walkover Panel	--	57640
4	M6 x 25 DIN7500-D Taptite	201067	201067
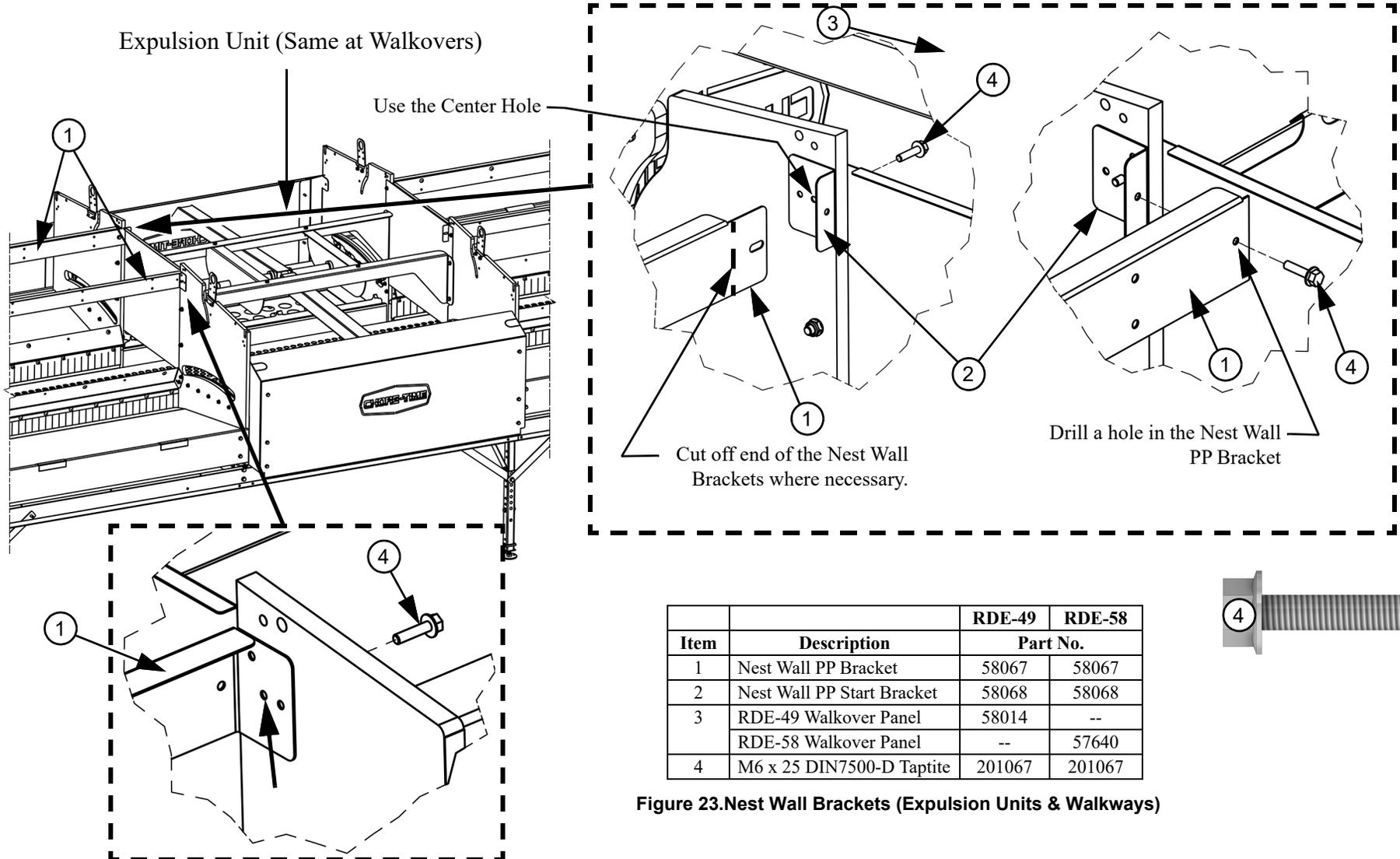
Figure 23.Nest Wall Brackets (Expulsion Units & Walkways)

Top Assembly

1. Attach Cross Braces **(Item 1)** to the Walkover Panels with M6 Taptites **(Item 3) as shown**.
2. Assemble the Flat Top Mid Supports **(Item 2)** by sliding the ends into the Slots in the Cross Braces.

Note: All Cross Braces must face the same way.

Item	Description	RDE-49	RDE-58
		Part No.	
1	Flat Top Cross Brace	57322	57322
2	Flat Top Mid Support	57321	57321
3	M6 x 25 DIN7500-D Taptite	201067	201067
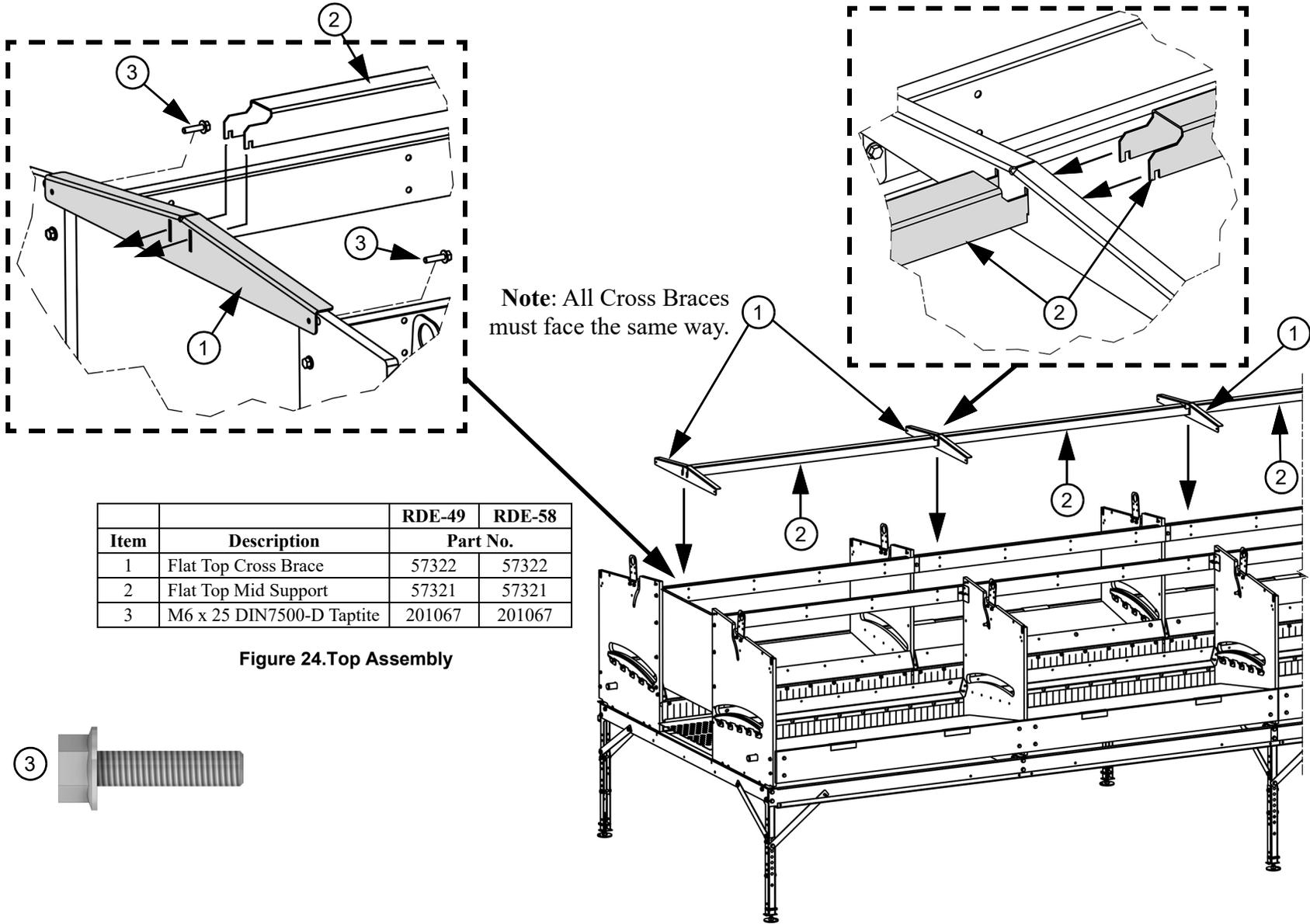
Figure 24. Top Assembly
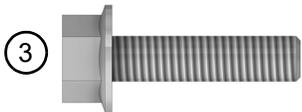
Back Wall

⚠ **Important!** Orient Rivets **as shown** with Heads toward the Belt area to keep points of Rivets away from the bird area.

1. Attach Back Walls **(Item 1)** to the Nest Wall Brackets **(Item 2)** and Nest Back Rails **(Item 3)** with Rivets **(Item 4) as shown**.
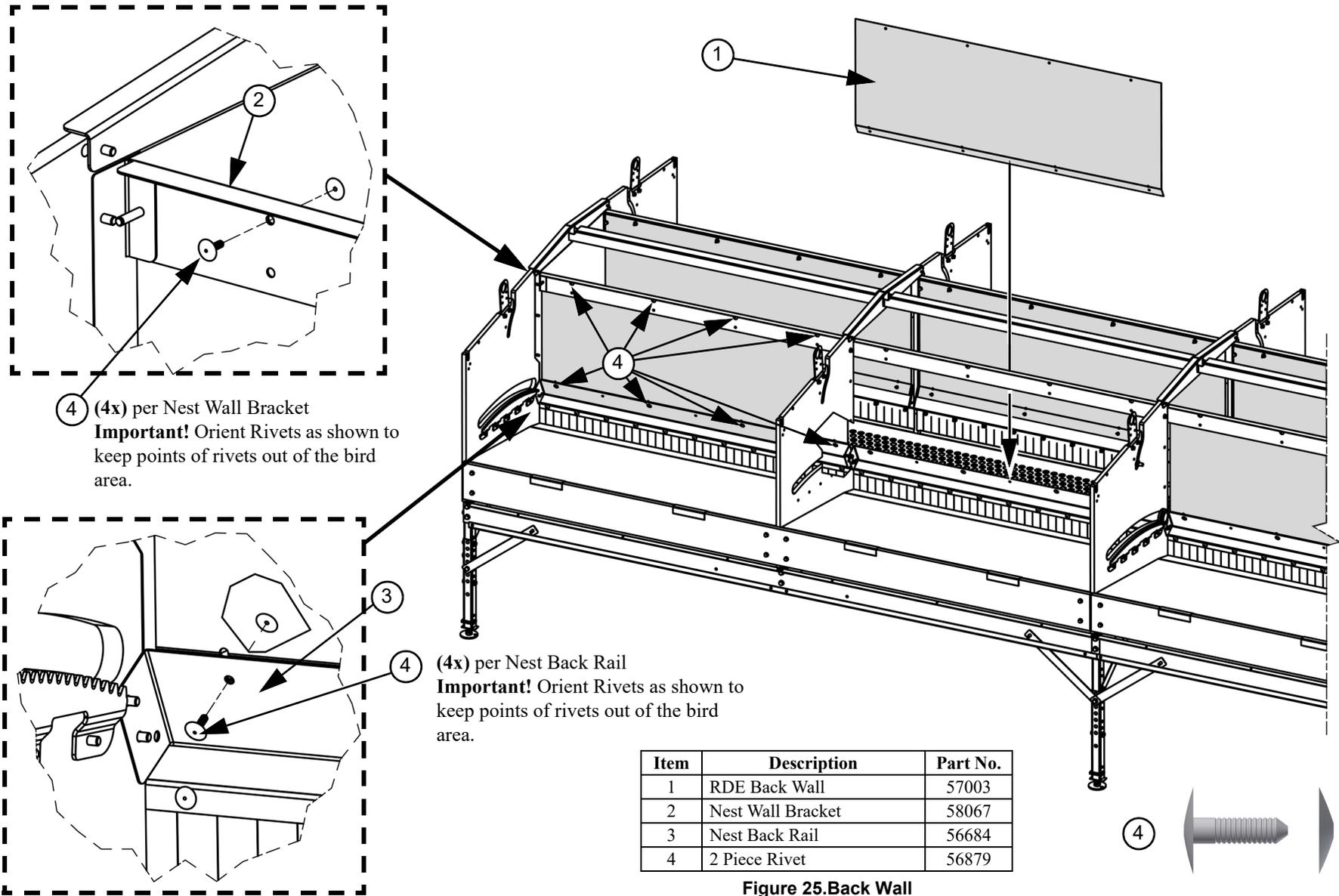
④ **(4x)** per Nest Wall Bracket
Important! Orient Rivets as shown to keep points of rivets out of the bird area.

④ **(4x)** per Nest Back Rail
Important! Orient Rivets as shown to keep points of rivets out of the bird area.

Item	Description	Part No.
1	RDE Back Wall	57003
2	Nest Wall Bracket	58067
3	Nest Back Rail	56684
4	2 Piece Rivet	56879

Figure 25.Back Wall

Expulsion Unit

Expeller Tube Support & Crosses

Note: Make sure that the Expulsion Plates are installed. **See "Bottom Rails/Expulsion Plates" on page 11.**

1. Fasten Expeller Tube Supports **(Item 1)** to Expeller Mount Crosses **(Item 2)** with M8 Hardware **as shown**.
2. Use the same Hardware to fasten the Expeller Mount Crosses to the Side Panels.

Note 1: No Floor Pipe or Nest Pad at Expulsion Unit. **See "Floor Pipe Installation" on page 19.**

Note 2: Use short Entrance Boards at Expulsion Units. **See "Entrance Board Installation" on page 17.**

Floor Pipes Cut Off.

Short (1.2m) Entrance Board
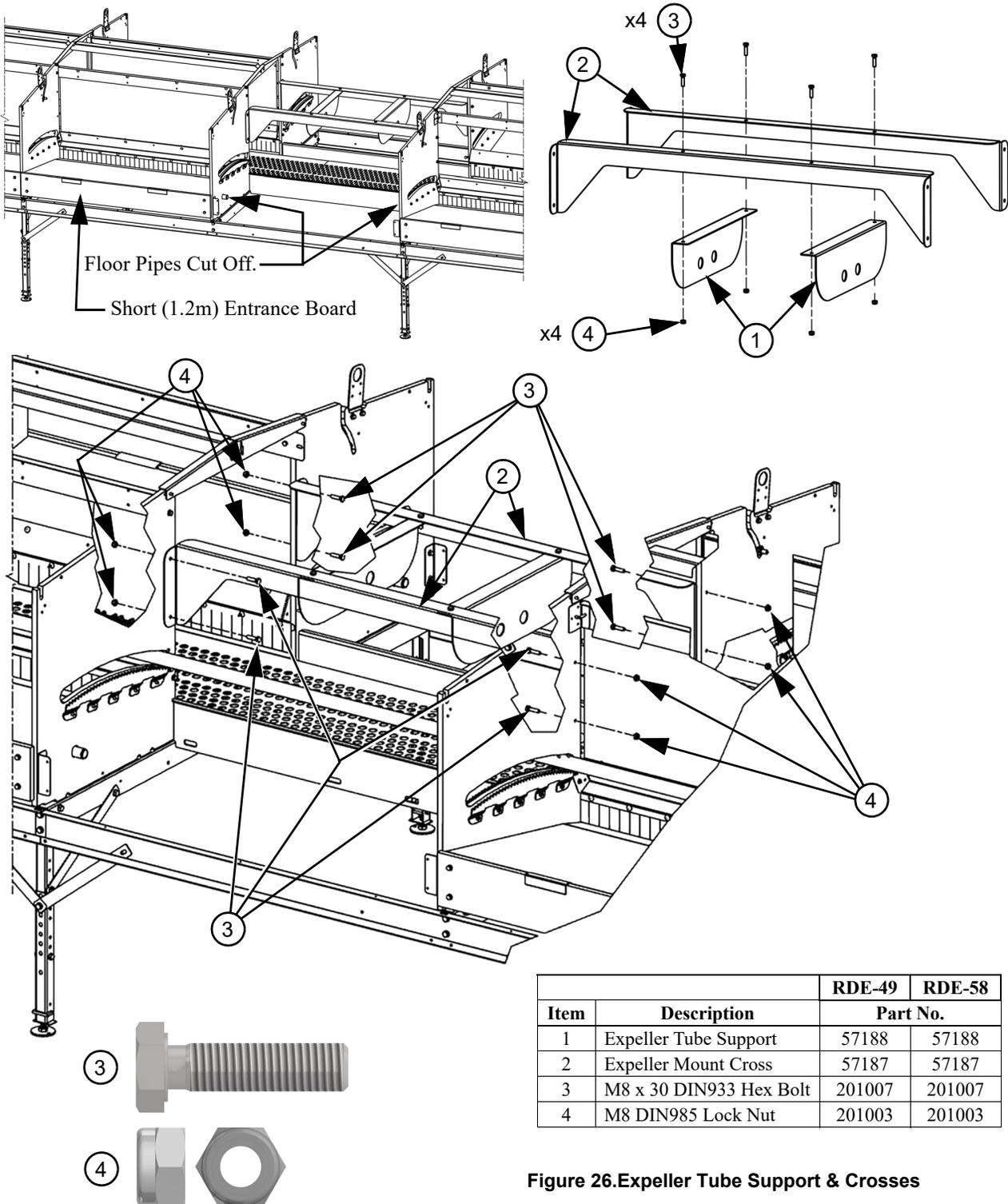
		RDE-49	**RDE-58**
Item	**Description**	**Part No.**	
1	Expeller Tube Support	57188	57188
2	Expeller Mount Cross	57187	57187
3	M8 x 30 DIN933 Hex Bolt	201007	201007
4	M8 DIN985 Lock Nut	201003	201003

Figure 26. Expeller Tube Support & Crosses

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Expeller Bottom Cover

Note: Expeller Bottom Covers are optional. They should only be used if the Expeller area is open to birds. Some alterations may be necessary to be made to the Covers to fit certain systems.

1. Insert the bent tabs in the Expeller Bottom Covers **(Item 1)** into the slots of the Expulsion Egg Plates **(Item 2)**.
2. If necessary bend the outside flange of the Bottom Covers so the Tabs will rest on the Nest Front Rails **(Item 3)**.

Tab in Slot of Expulsion Egg Plate.

Tab resting on Nest Front Rail.

Bend if Necessary
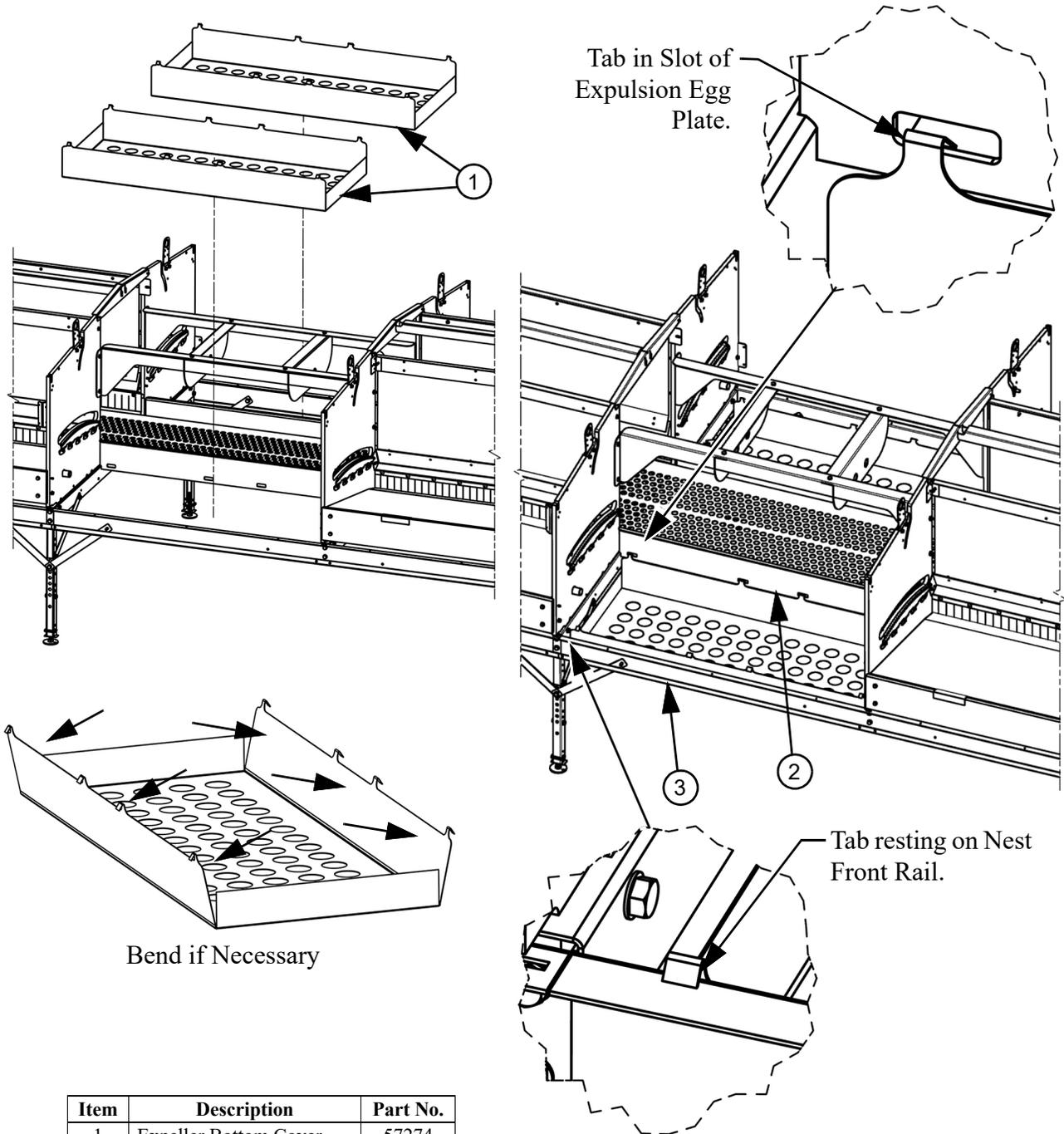
Item	Description	Part No.
1	Expeller Bottom Cover	57274
2	Expulsion Egg Plate	57206
3	Nest Front Rail	57316

Figure 27. Expeller Bottom Covers

ME2531B

Expeller Pipes

1. Insert Expeller Pipes **(Item 1)** into the Expeller Mounting Profiles **(Item 2)**.
2. Slide Set Collars **(Item 3)** and Slide Bearings **(Item 4)** onto the Pipe and Insert the Pipe into the Expeller Tube Supports **(Item 5) as shown**.
3. Center the Pipes in the Tube Supports and torque the Outside Set Collars to 6.3 ft./lbs. [5 Nm].

Important! Do not torque the inside Set Collars at this time **(See Figure)**.

Do not tighten these Set Collars at this time.

Center Pipes and torque Set Screws to 6.3 ft./lbs. [5 Nm]
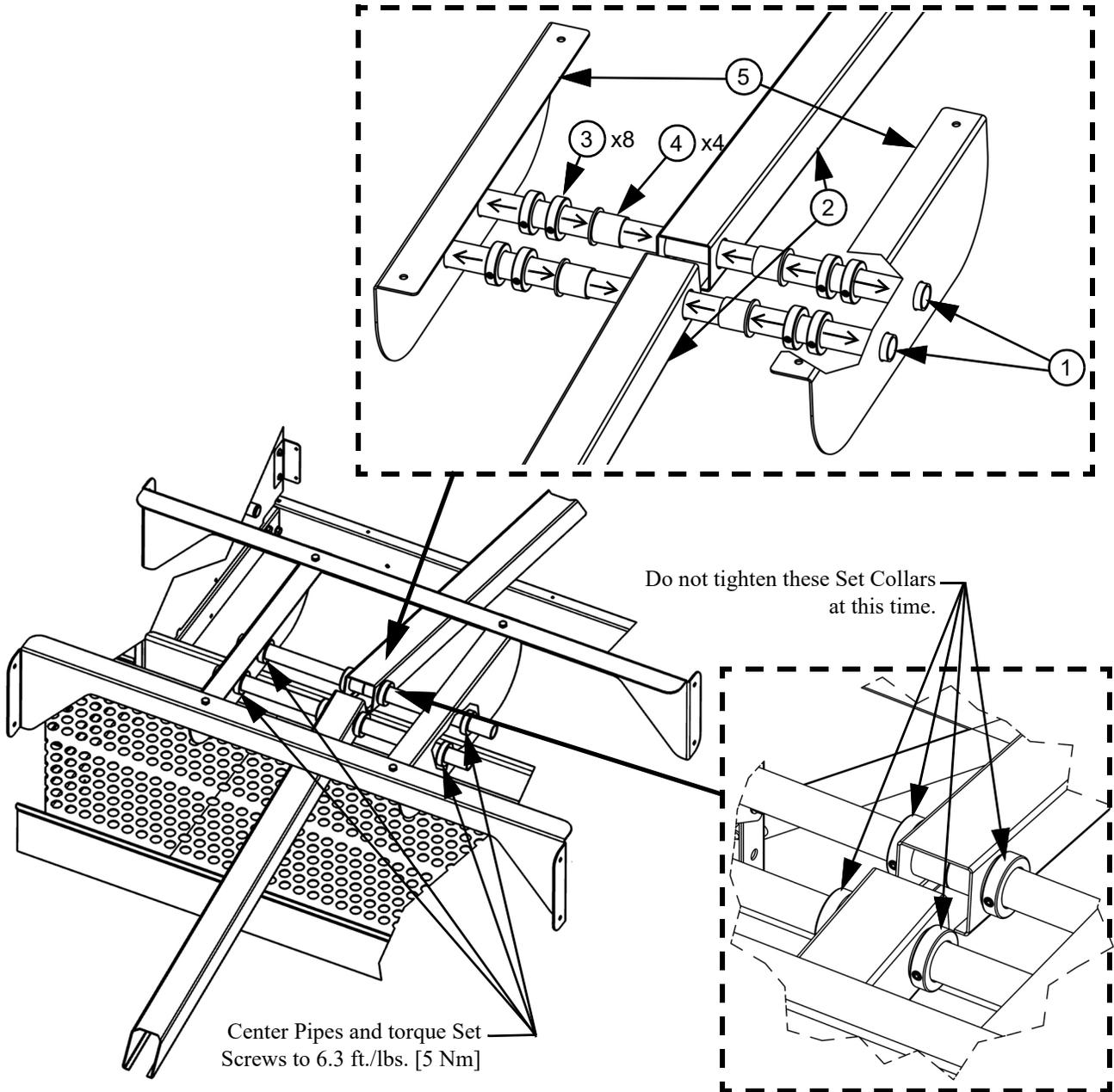
			RDE-49	RDE-58
Item	**Description**		**Part No.**	
1	500 MM RDE Mounting Profile Expeller Pipe		600638	600638
2	RDE-49 Expeller Mounting Profile		600630	--
	RDE-58 Expeller Mounting Profile		--	600646
3	32 MM DIN705A Set Collar		201140	201140
4	30x34x26MM Plastic Axle Slide Bearing		201139	201139
5	Expeller Tube Support		57188	57188

Figure 28. Expeller Pipes

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Motor Installation

1. Fasten Motor Mounting Plates **(Item 1)** to the Motors **(Item 2)** with M8 Hardware **as shown**.
2. Slide the Motors onto the Expeller Channels **(Item 5) as shown**.
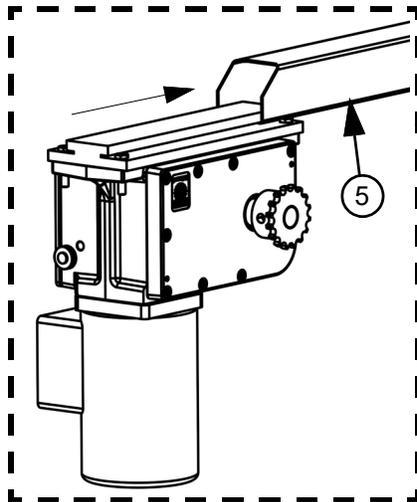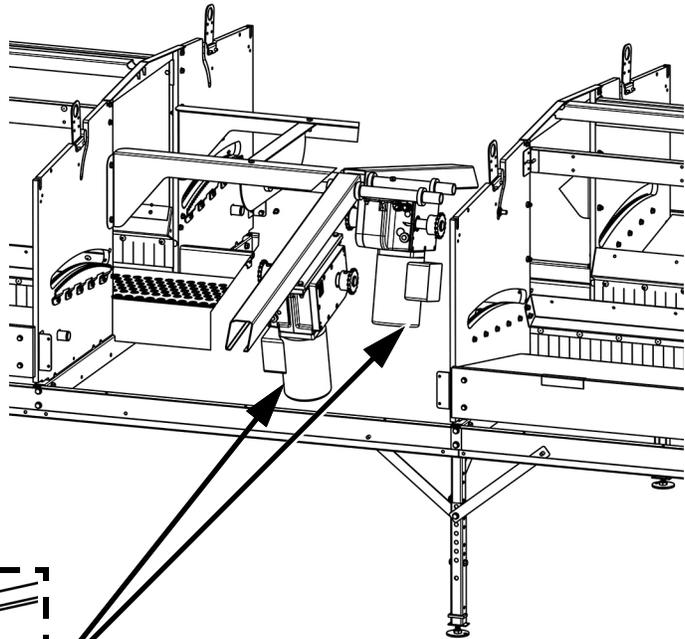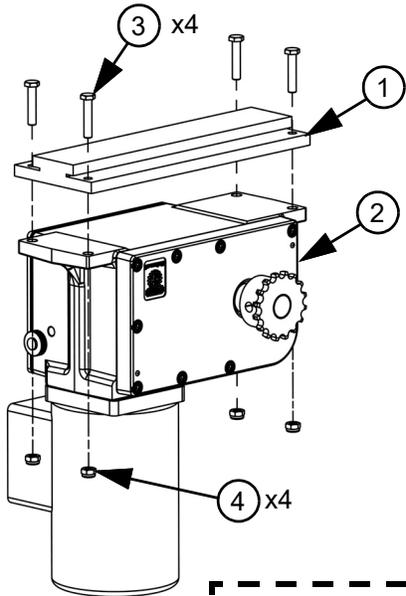
		RDE-49	RDE-58
Item	**Description**	**Part No.**	
1	Motor Mounting Plate	600631	600631
2	50 Hz Motor (EU)	603104	603104
	60 Hz Motor (US)	603119	603119
3	M8 X 40 DIN933 Hex Bolt	201053	201053
4	M8 DIN985 Lock Nut	201003	201003
5	Expeller Mounting Profile	600630	600646

Figure 29.Motor Installation
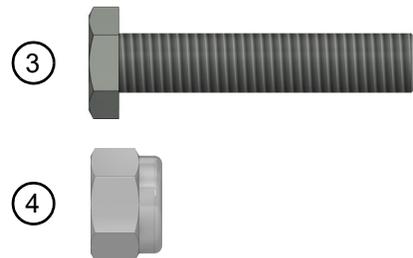
Expulsion Tube Installation

1. Fasten Expulsion Shaft Couplings **(Item 1)** to the Motor Shaft Couplings using Chain Couplings **(Item 2) as shown**.
2. Insert Expulsion Shafts **(Item 3)** in the Slots in the Side Panels and slide on Toothed Wheels **(Item 4)** oriented with Teeth in the direction **shown**.
3. Insert the Expulsion Shafts **(Item 3)** into the Expulsion Shaft Couplings and Fasten with M8 Hardware.
4. **Do Not** tighten Set Screws on the Toothed Wheels at this time.
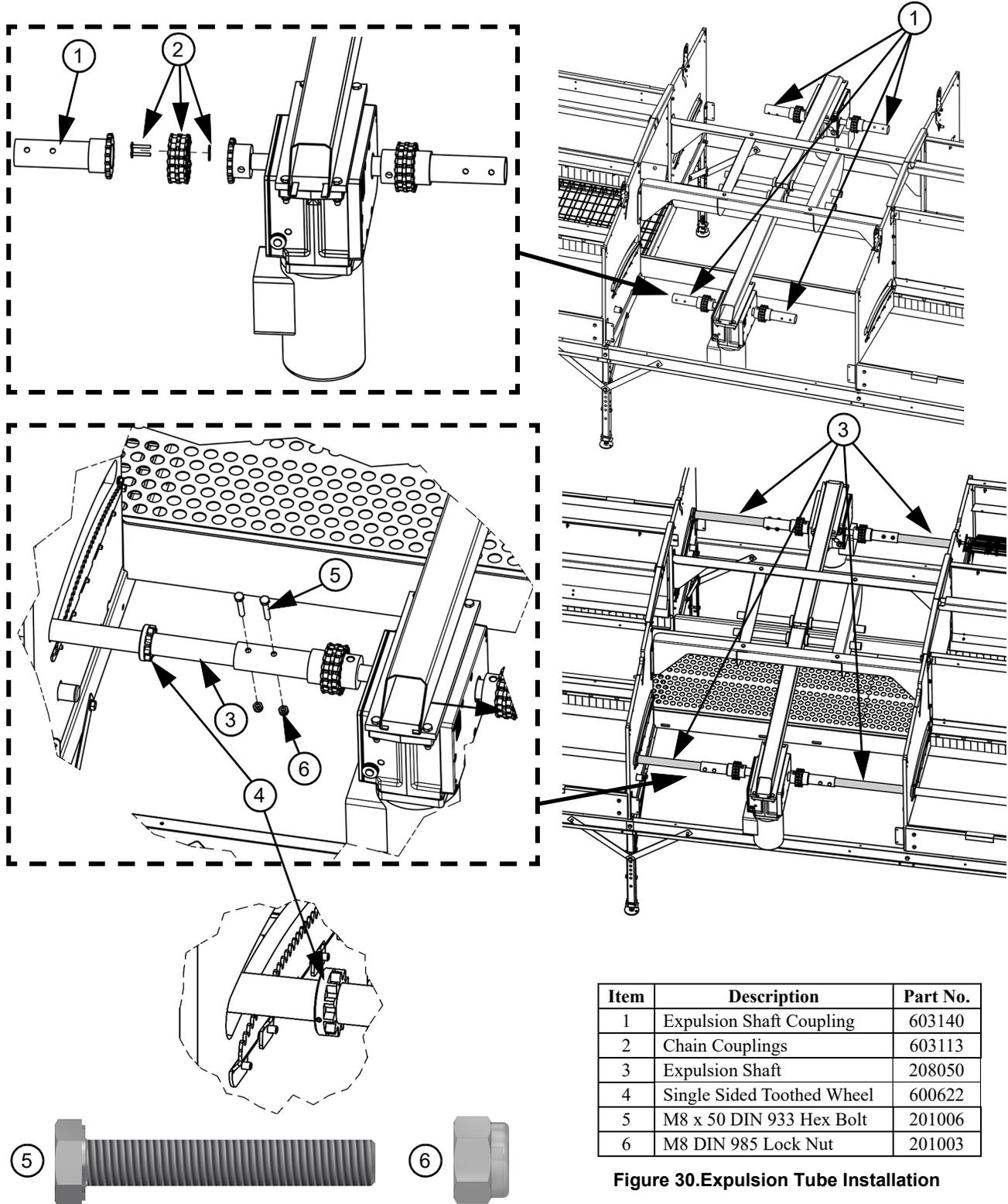
Item	Description	Part No.
1	Expulsion Shaft Coupling	603140
2	Chain Couplings	603113
3	Expulsion Shaft	208050
4	Single Sided Toothed Wheel	600622
5	M8 x 50 DIN 933 Hex Bolt	201006
6	M8 DIN 985 Lock Nut	201003

Figure 30.Expulsion Tube Installation

5. Move the Expulsion Shafts all the way toward the front of the Nest **as shown**.
6. Line up the Teeth in the Toothed Wheels **(Item 1)** with the Teeth on the Toothed Rack Plates **(Item 2)**. Orient Toothed Wheels with one Set Screw toward the front of Nest and the other up **as shown**. This will make adjustment easier later! **Do Not** tighten Set Screws on Toothed Wheels at this time.
7. Tighten the four Set Collars on the Mounting Profile Expeller Pipes **(Item 3)** to 6.3 ft./lbs. [5 Nm].
8. **Do not** tighten Set Screws on Toothed wheels at this time.

Torque Set Screws to 6.3 ft./lbs. [5 Nm]

Orient Wheel with one Set Screw toward front and one up for easier adjustment later.

Expulsion Tubes in the forward position.
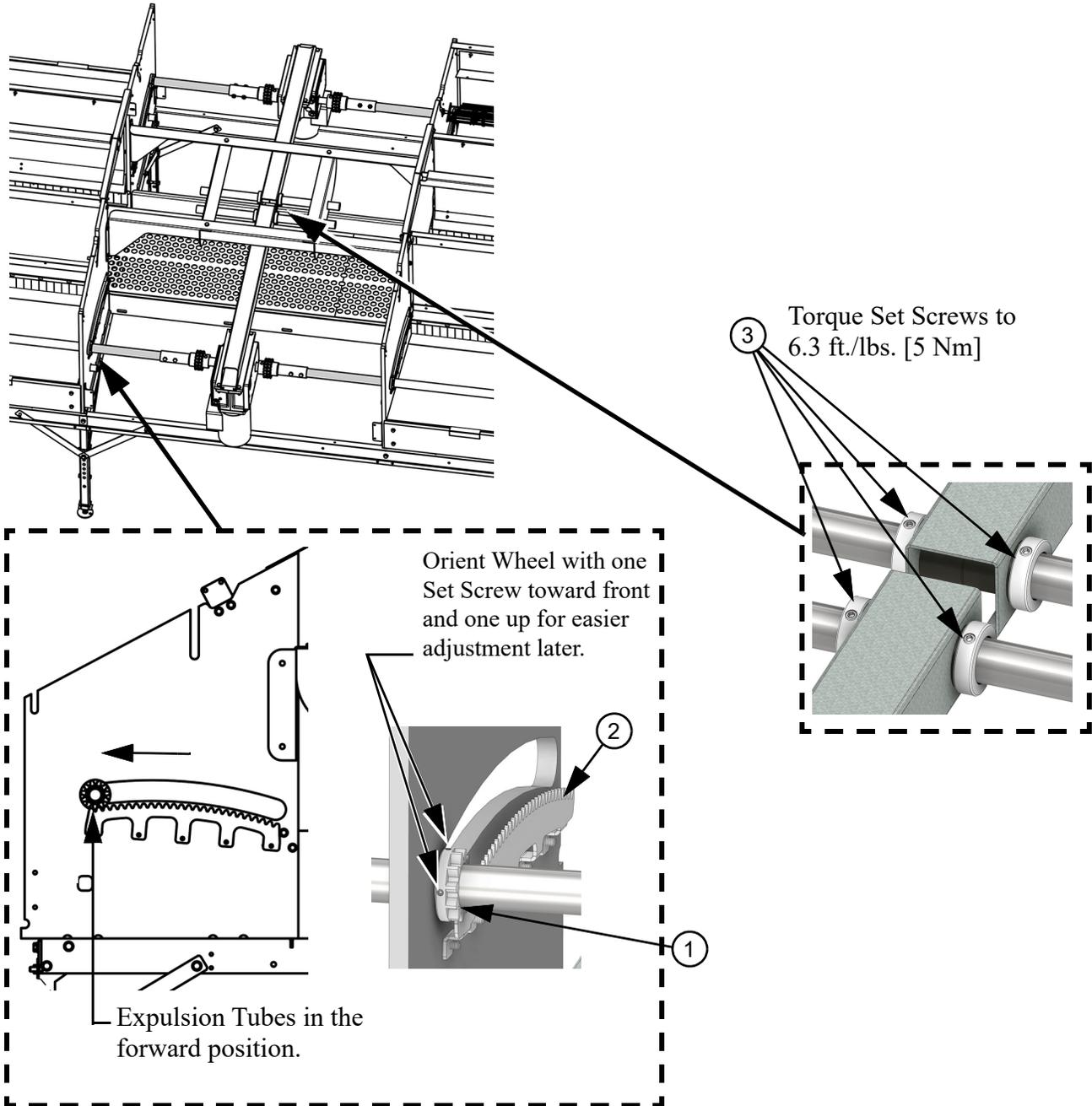
Item	Description	RDE-49	RDE-58
		Part No.	
1	Single Sided Toothed Wheel	600622	600622
2	RDE-49 Toothed Rack Plate	56680	--
	RDE-58 Toothed Rack Plate	--	56993
3	32 MM DIN705A Set Collar	201140	201140

Figure 31.Expulsion Tube Installation continued

Expulsion Shafts
Connections

Note 1: If installing Foldable Balconies skip to **"Folding Balcony Ropes" on page 48.** to see extra hardware to install on Expulsion Shafts.

Note 2: There is a Single Sided Toothed Wheel at every Side Panel that has a Toothed Rack Plate.

1. **Important!** Make Sure that the Expulsion Shafts are in the forward position.
2. Set a Single Sided Toothed Wheel **(Item 1)** on every Toothed Rack Plate **(Item 2)** orienting them with the Set Screws facing toward front and top of nest **as shown**. **Do not** Tighten Set Screws at this time.
3. Slide the Expulsion Tubes **(Item 3)** through the Toothed Wheels and connect them together with M8 x 50 Bolts **(Item 4)** and M8 Locking Nuts **(Item 5)**.
4. Continue connecting Expulsion Tubes until you reach a Walkover, Expulsion Unit, or the end of the system. **Do Not** tighten set screws on Toothed wheels at this time.

Orient Wheel with one Set Screw toward front and one up for easier adjustment later.

Shafts in the forward position.

Panels w/Toothed Rack Plates

Panels w/out Toothed Rack Plates

		RDE-49	RDE-58
Item	**Description**	**Part No.**	
1	Single Sided Toothed Wheel	600622	600622
2	RDE 49 Toothed Rack Plate	56680	--
	RDE 58 Toothed Rack Plate	--	56993
3	Expulsion Shaft	208050	208050
4	M8 x 50 DIN 933 Hex Bolt	201006	201006
5	M8 DIN 985 Lock Nut	201003	201003

Figure 32.Expulsion Shafts

Expulsion Shafts/Caps

1. Continue Connecting Expulsion Shafts **(Item 1)** together **(See Figure)** until you reach a Walkover, Expulsion Unit, or the end of the system.
2. Cut Shafts off at Walkovers and the End of the System and Install Expulsion Shaft Caps **(Item 2) as shown**.
3. **Important!** <u>Do not</u> tighten the Toothed Wheels at this time. They will be tightened in the next step.

3" [7.6 cm]

3" [7.6 cm]

Walkover

End of System

3" [7.6 cm]

Item	Description	Part No.
1	Expulsion Shaft	208050
2	Expulsion Shaft Cap	201038
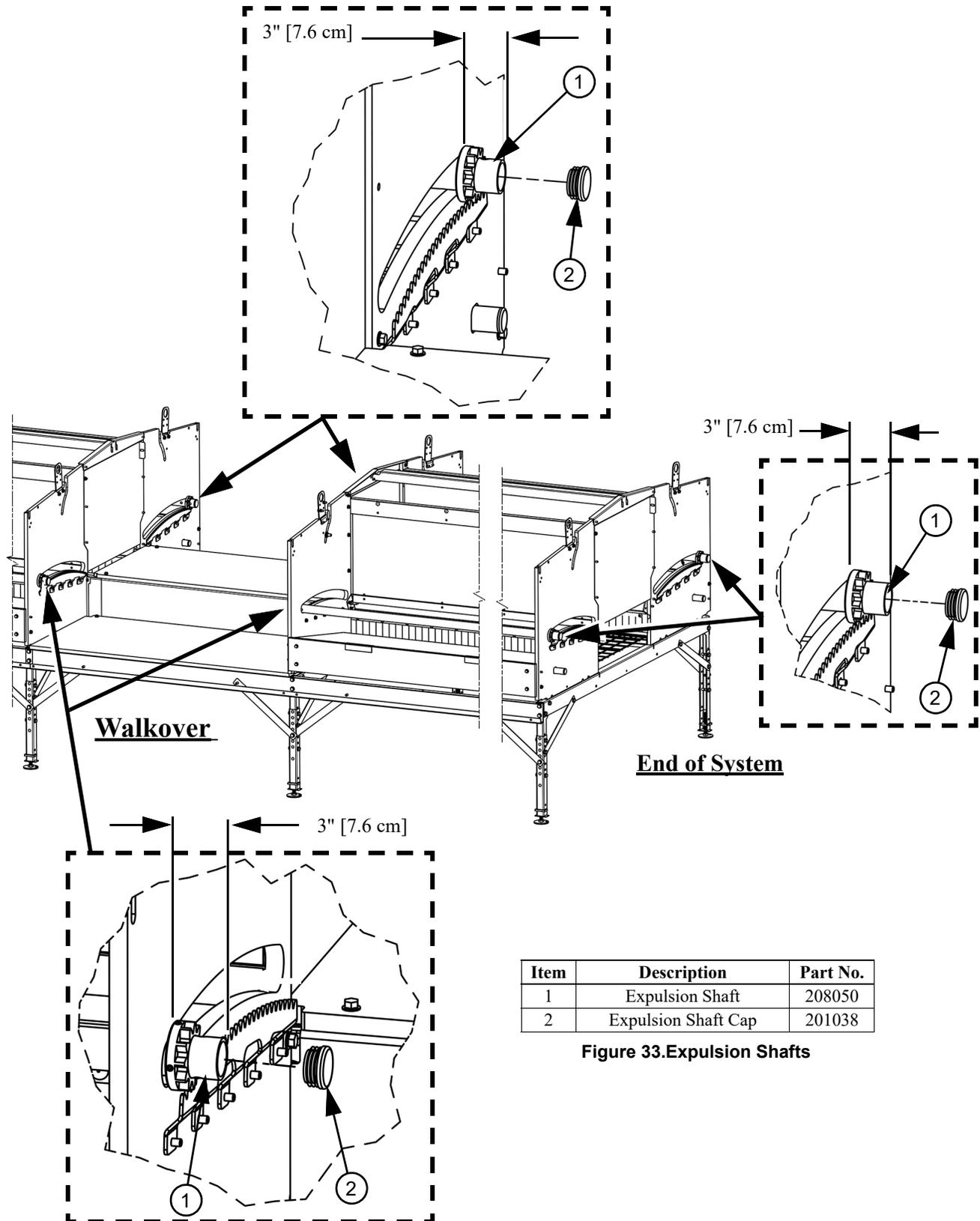
Figure 33. Expulsion Shafts

Center of System (Systems more than 50 sections with two Expulsion Units)

Expulsion Shafts need to be cut and separated at the center between Expulsion Units so Rack Plates and Toothed Wheels are required at the end of each of the Tubes.

1.Drill the five holes out to 1/4" [6.35mm] in two Rack Plates **(Item 1)**.
2.Use M6 Taptites **(Item 2)** in those through holes to attach Rack Plates to Panels **as shown**.
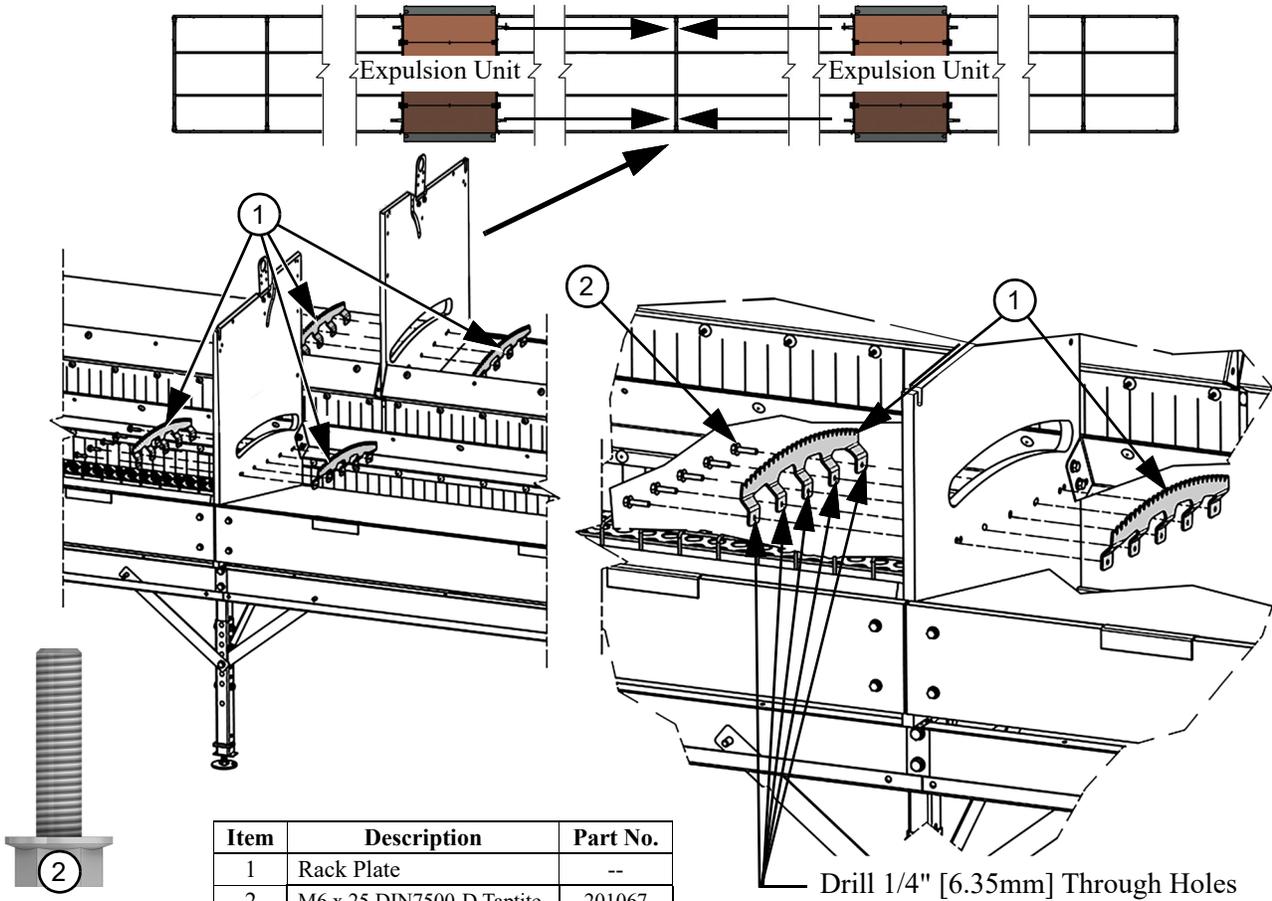
Item	Description	Part No.
1	Rack Plate	--
2	M6 x 25 DIN7500-D Taptite	201067

Drill 1/4" [6.35mm] Through Holes

Figure 34.Expulsion Shafts (More than 50 sections)

3.Cut off both Expulsion Shaft **(Item 1)** Flush with the RDE Panel **as shown**.

4.Install Expulsion Shaft Caps **(Item 2)** in the end of the Shafts.

5.Install Single Sided Toothed Wheels **(Item 2)**. **as shown**. **Do not** tighten Set Screws at this time.

Flush with RDE Panel

Flush with RDE Panel

Item	Description	Part No.
1	Expulsion Shaft	208050
2	Expulsion Shaft Cap	201038
3	Single Sided Toothed Wheel	600622
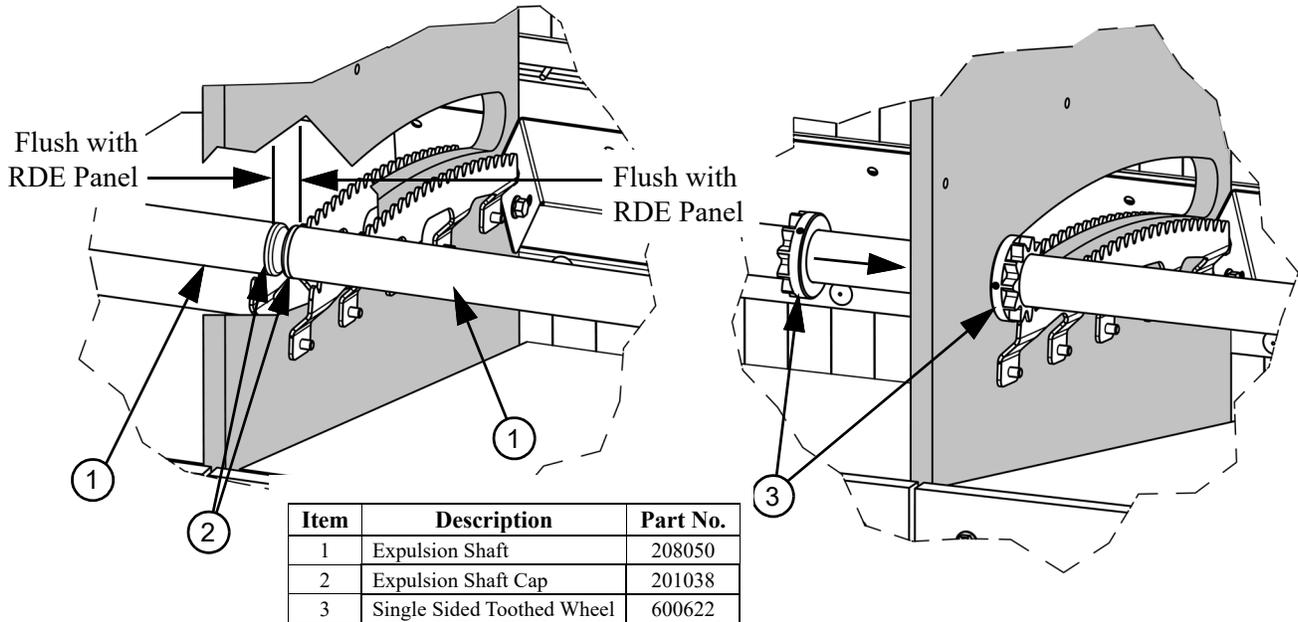
Figure 35.Expulsion Shafts (Caps)

6.Temporarily Set a spare Toothed Wheel on the Rack Plates **(Item 1)** to use as a guide to position the Tube Hold Downs **(Items 2 & 3) as shown**. Make sure Notches are oriented toward Belt area. Leave a 1/16" [1.6mm] Gap between the top of the Toothed Wheels and the RDE Tube Hold Downs.

7.Drill three 1/4" [6.35mm] holes in each RDE Side Panels using the holes as guides **as shown**.

8.Fasten the RDE Tube Hold Downs to the Side Panels with M6 hardware.

Drill 1/4" [6.35mm] Through Holes

Notch

Extra Toothed Wheel as guide

1/16" [1.6mm]

			RDE-49	RDE-58
Item	Description		Part No.	
1	RDE Toothed Rack Plate		600602	56993
2	RDE Tube Hold Down (Right)		57835-2	57835-2
3	RDE Tube Hold Down (Left)		57835-1	57835-1
4	M6 x 25 DIN7500-D Taptite		201067	201067
5	M6 DIN985 Lock Nut		201037	201037
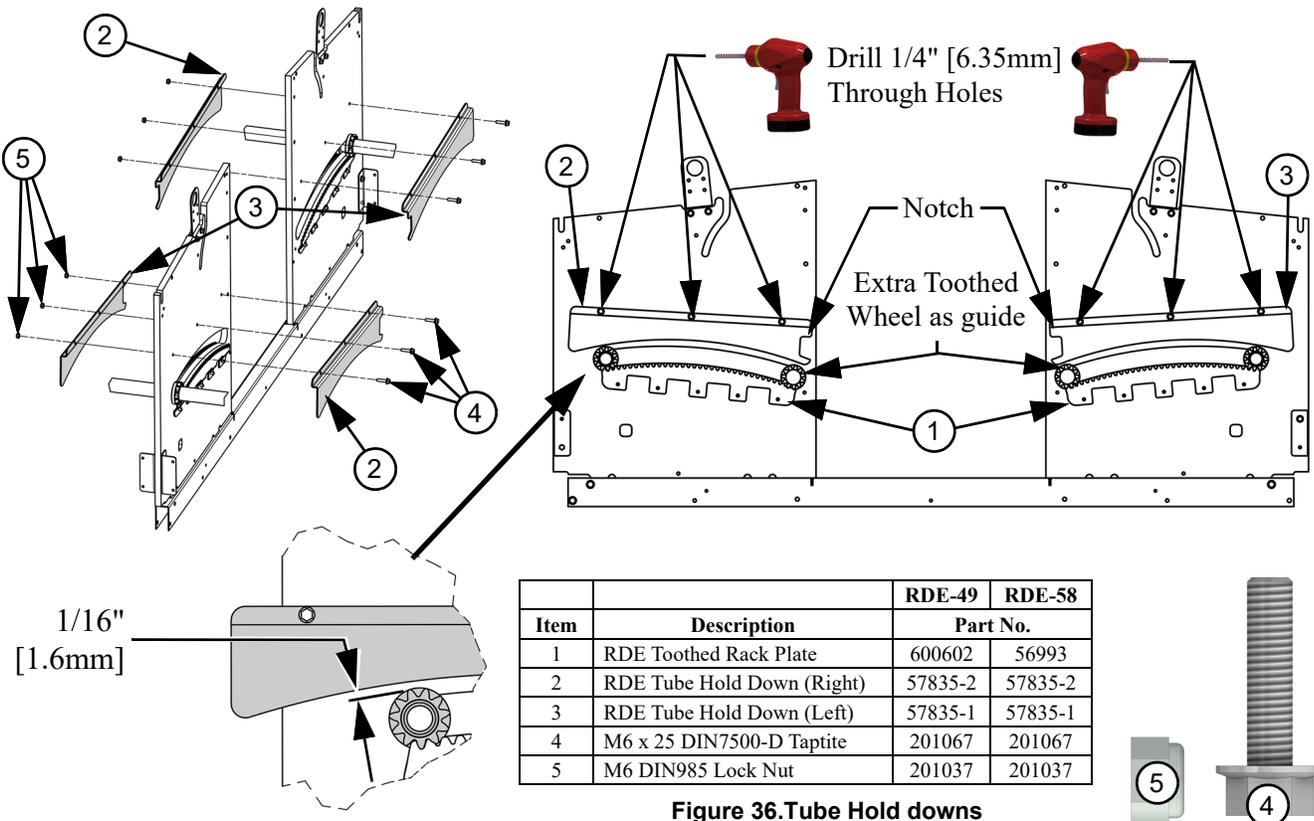
Figure 36.Tube Hold downs

Tightening down Toothed Wheels on Expulsion Shafts

1. Make sure the Expulsion Tubes are all toward the front of the nest as **shown**.
2. **Important!** Rotate the Toothed Wheels so the Set Screws are toward the front and top of the nest and torque all of the Set Screws to 6.3 ft./lbs. [5 Nm] using a 2.5mm Allen Wrench. **Do not** use a 3/32" Allen Wrench to avoid stripping the Set Screws. Proper orientation of the Set Screws allows for easy adjustment later.

Orient Wheel with one Set Screw toward front and one up for easier adjustment later and torque to 6.3 ft./lbs. [5 Nm]

Important! Use 2.5mm Allen. **Do Not** use 3/32".

All Expulsion Tubes toward the front of System before tightening Set Screws.
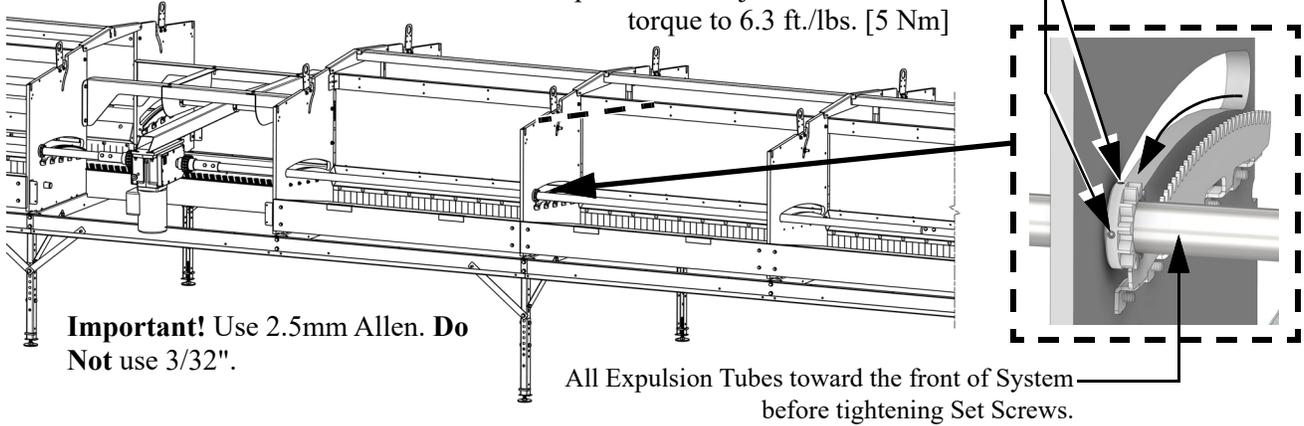
Figure 37.Tightening Down Toothed Wheels to Expulsion Shafts

Expulsion Unit Cover

Side Braces

1. Fasten Cover Side Braces **(Items 1 & 2)** with M6 x 16 Bolts **(Item 3) as shown.**

Item	Description	Part No.
1	RDE Cover Side Brace (Right)	57213-1
2	RDE Cover Side Brace (Left)	57213-2
3	M6x16 DIN7500D Taptite	201077
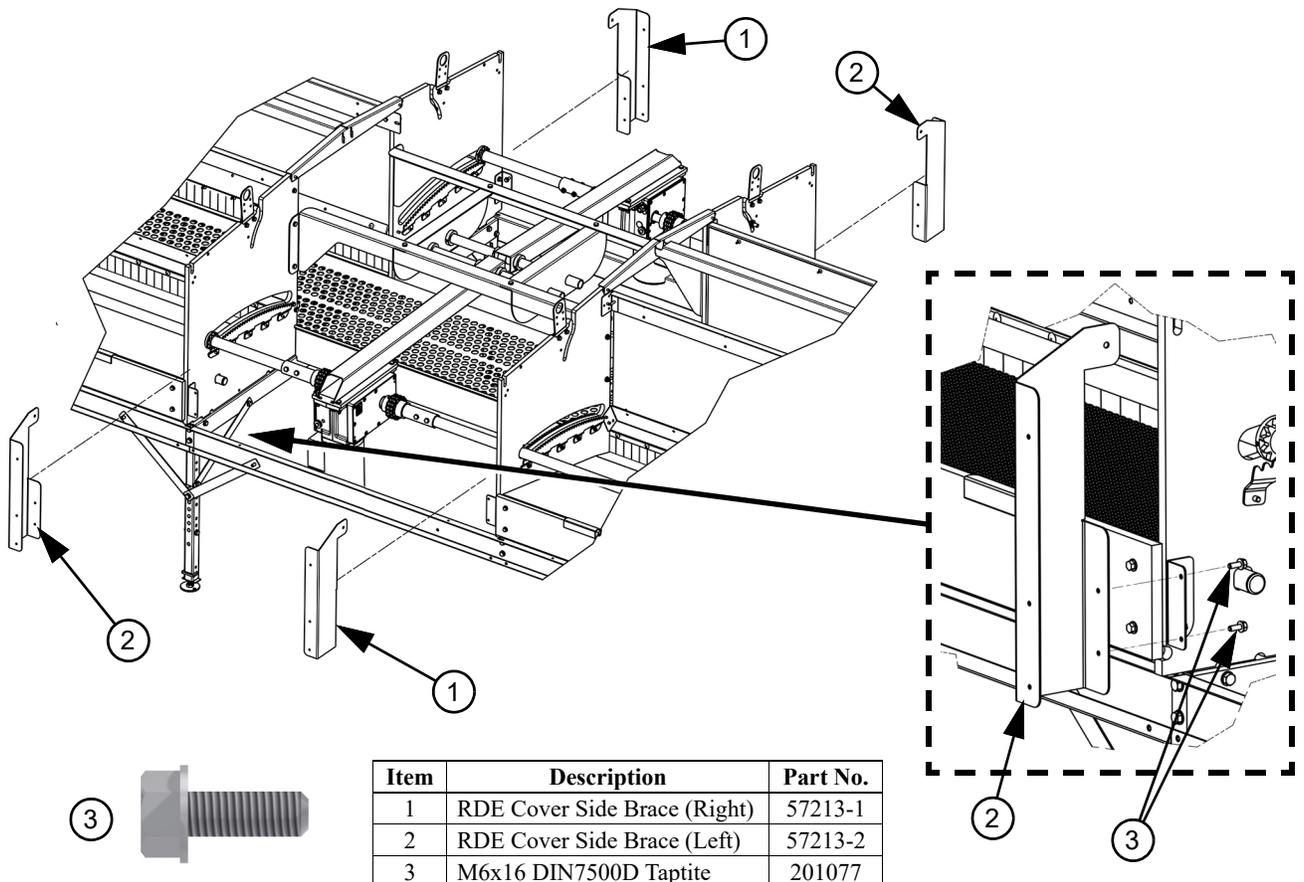
Figure 38.Expulsion Cover Side Braces

Front Cover

1. Fasten the Front Covers **(Item 1)** with M6 Taptites **(Item 2) as shown.**
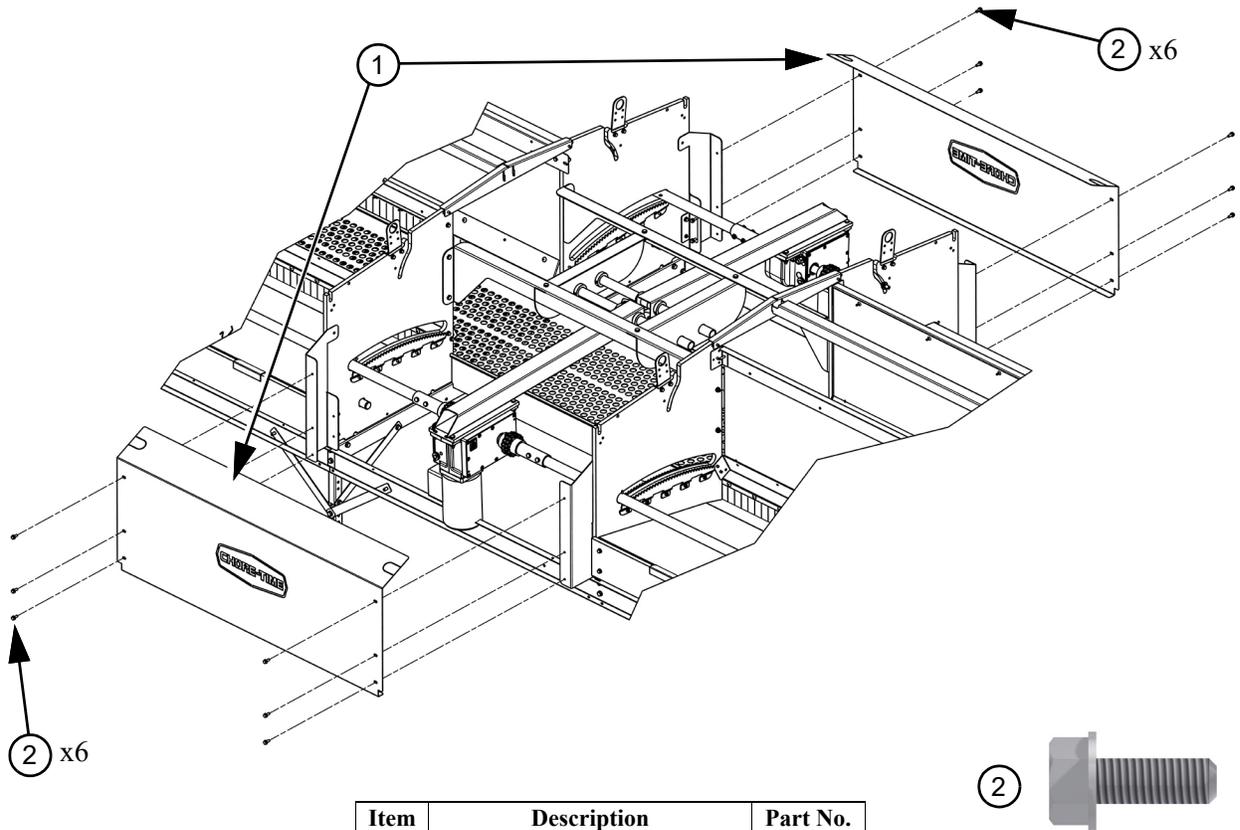
Item	Description	Part No.
1	RDE Front Expulsion Cover	57212
2	M6x16 DIN7500D Taptite	201077

Figure 39. Expulsion Front Covers

Walk Over Section

Walkover Rails, Gap Cover & Extra Legs

Important! Legs are required every 47-1/4" [120 cm] at walkovers to support the extra weight of persons walking over. **See "Framework" on page 8.** for Leg Installation.

1. Install Walkover Rails **(Item 1)** by sliding them into the slots in Nest Crosses **as shown**.
2. [2.4 m] Walkover Sections require Gap Covers **(Item 1).** Put Gap Covers in place lining up the holes with the holes in the Walkover Rails.

Slot

Pagoda Walkover

Item	Description	Part No.
1	RDE Walkover Rail	57627
2	Walkover Gap Cover	58011

Figure 40.Walkover Rails/Gap Covers

Legs Required under Walkway

2.4 m Walkover

Legs Required under Walkway
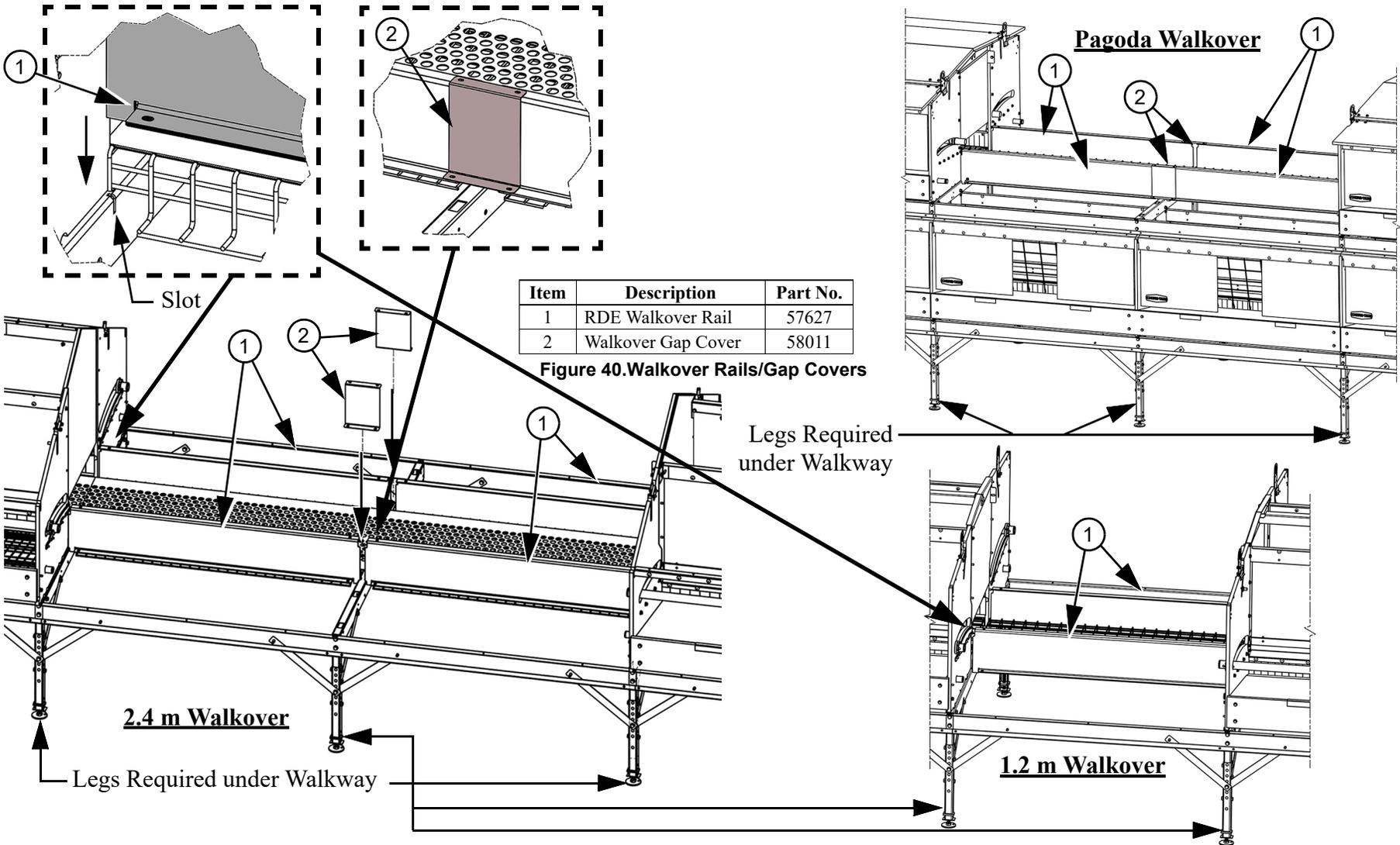
1.2 m Walkover

Walkover Platforms

Walkover Gap Covers are required only on 2.4m Walkovers.

Platforms install the same on Pagoda models.

1. Attach Center Walkover Platforms **(Item 1)**, Walkover Gap Covers **(Item 2)**, and Walkover Platforms **(Item 3)** to the Walkover Rails and Nest Front Rails with M6 Taptites. **(Item 4)**.

2.4 m Walkover

Gap Covers
(2.4m only)
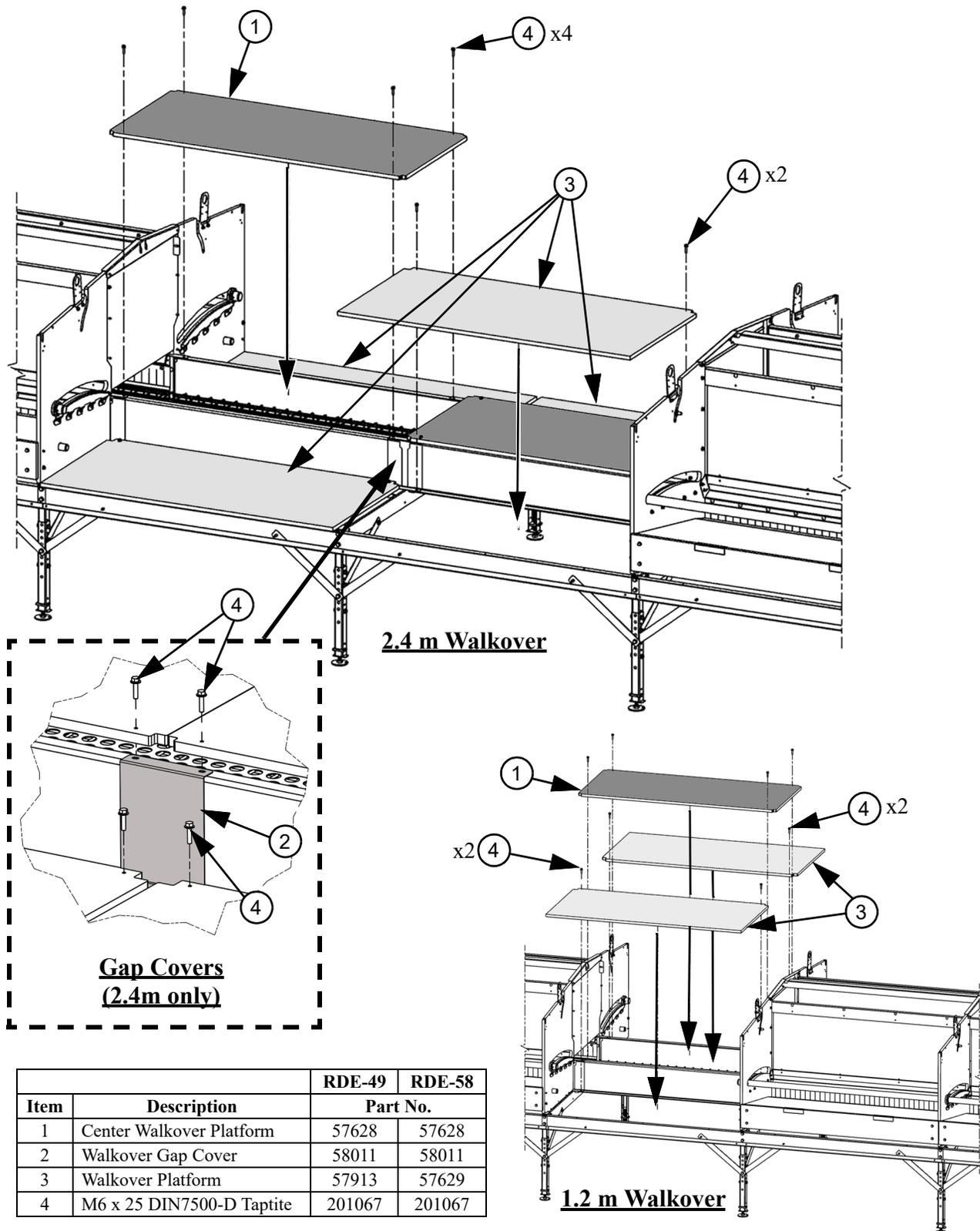
1.2 m Walkover

		RDE-49	RDE-58
Item	**Description**	**Part No.**	
1	Center Walkover Platform	57628	57628
2	Walkover Gap Cover	58011	58011
3	Walkover Platform	57913	57629
4	M6 x 25 DIN7500-D Taptite	201067	201067

Figure 41.Walkover Platforms

Expeller Installation

Expeller Panel Assembly

1. Install two Panel Lock Bushings **(Item 1)** per Expeller Panel **(Item 2)**.
2. Attach three Panel Clamps **(Item 3)** per Panel in the locations shown.
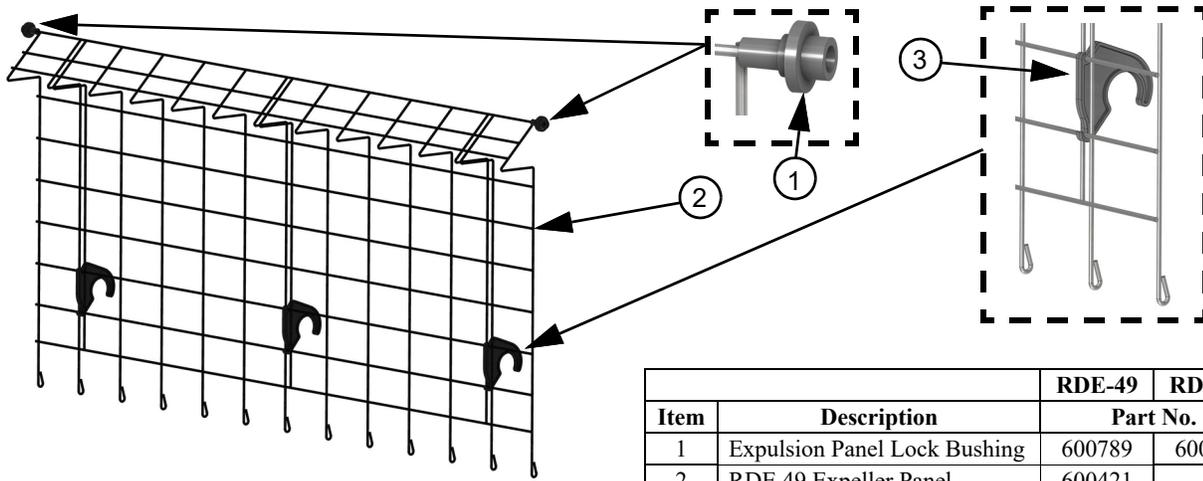
Item	Description	RDE-49	RDE-58
		Part No.	
1	Expulsion Panel Lock Bushing	600789	600789
2	RDE 49 Expeller Panel	600421	--
	RDE 58 Expeller Panel	--	57277
3	Expulsion Panel Clamp	600795	600795

Figure 42. Assembling Expeller Panel

Expeller Panel Installation

1. Insert the Panel Lock Bushings **(Item 1)** of the Expeller Panel Assembly **(Item 2)** into the Slots of the Side Panels and snap the Panel Clamps **(Item 3)** onto the Expulsion Shafts **as shown**.

Position Expulsion Shaft all the way toward the front of the Nest as shown for easier assembly.

Item	Description	Part No.
1	Expulsion Panel Lock Bushing	600789
2	Expeller Panel Assembly	--
3	Expulsion Panel Clamp	600795
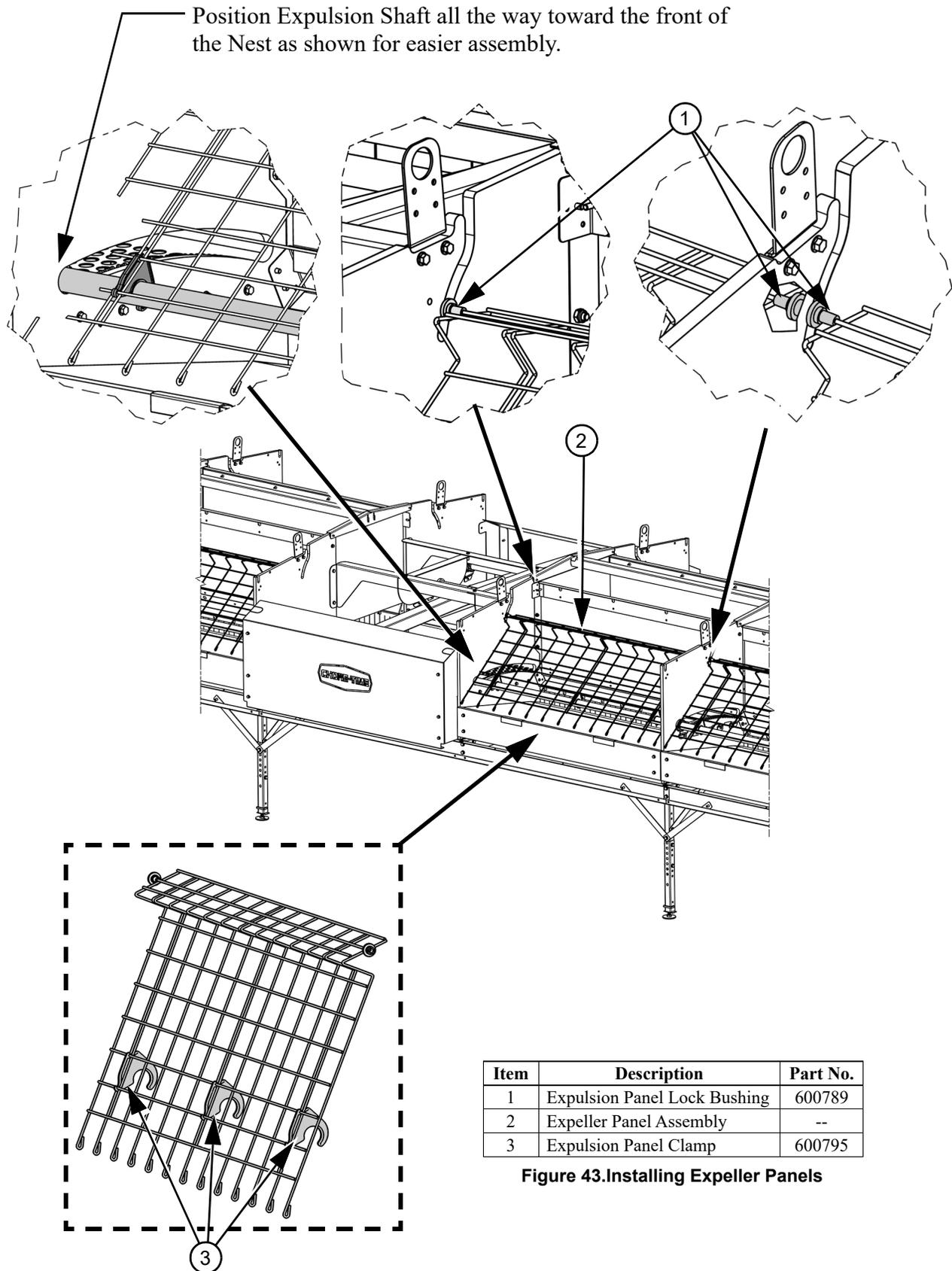
Figure 43. Installing Expeller Panels

Curtain Assembly & Installation

1. Fasten Nest Front Curtains **(Items 1 & 2)** to Curtain Support Brackets **(Item 3)** with Two Piece Rivets **(Item 4) as shown.**
2. Install the Nest Front Curtain Assemblies by inserting them into the slots in the Side Panels **as shown**.

Slot in Side Panel
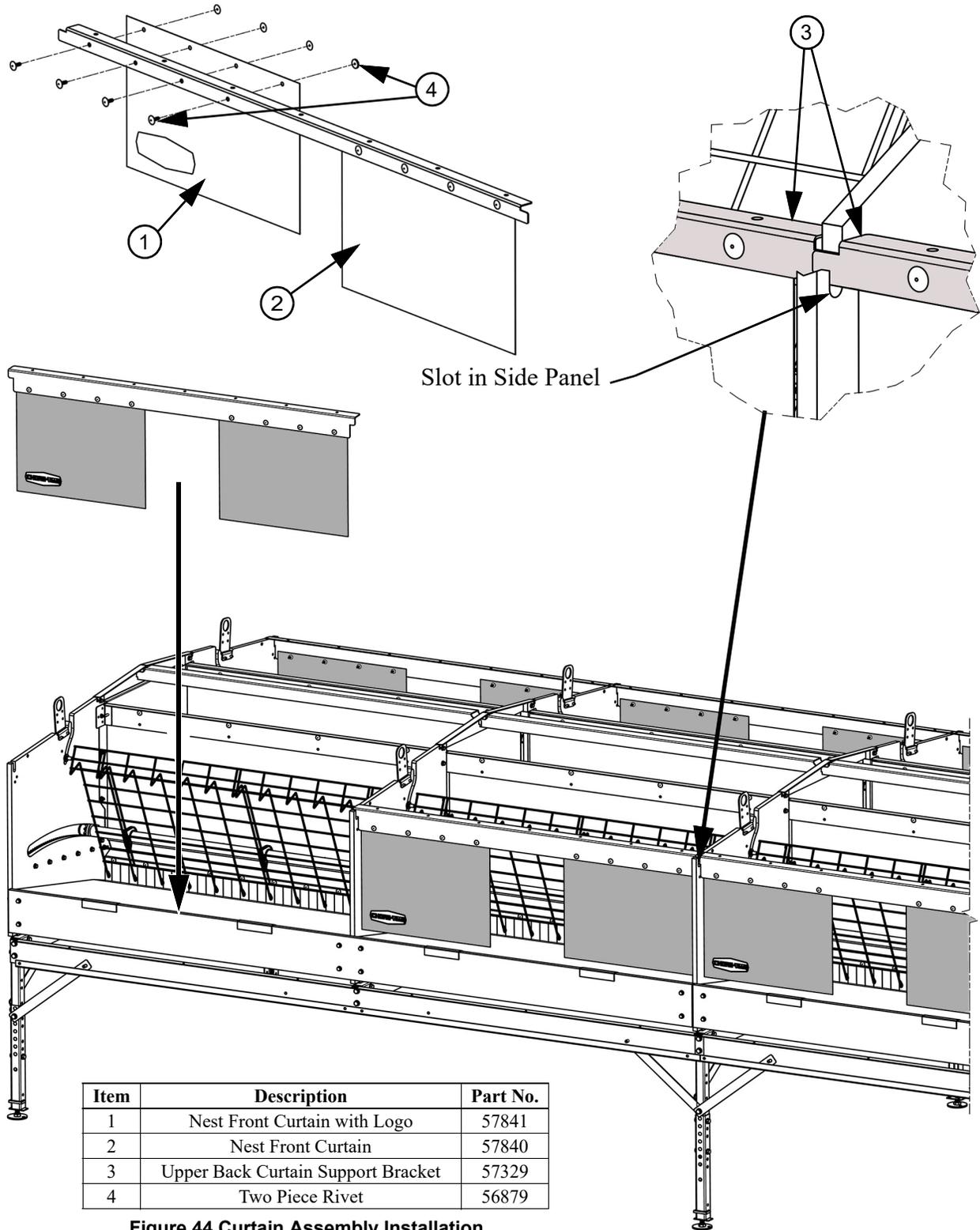
Item	Description	Part No.
1	Nest Front Curtain with Logo	57841
2	Nest Front Curtain	57840
3	Upper Back Curtain Support Bracket	57329
4	Two Piece Rivet	56879

Figure 44.Curtain Assembly Installation

ME2531B

Roof Installation
Roof Plate Assembly

Important! RDE 58 Nests use Two different Roof Plates; an Upper Roof Plate **(Item 2)** and a Lower Roof Plate **(Item 3)**. The Upper Roof Plate is wider than the Lower Roof Plate.

1. Install Roof L Brackets **(Item 1)** on the Top and Bottom Roof Plates with M6 Taptites **(Item 4) as shown.**

Important! Orientation of Center L Bracket is crucial **See Figure 46 (on page 44)**
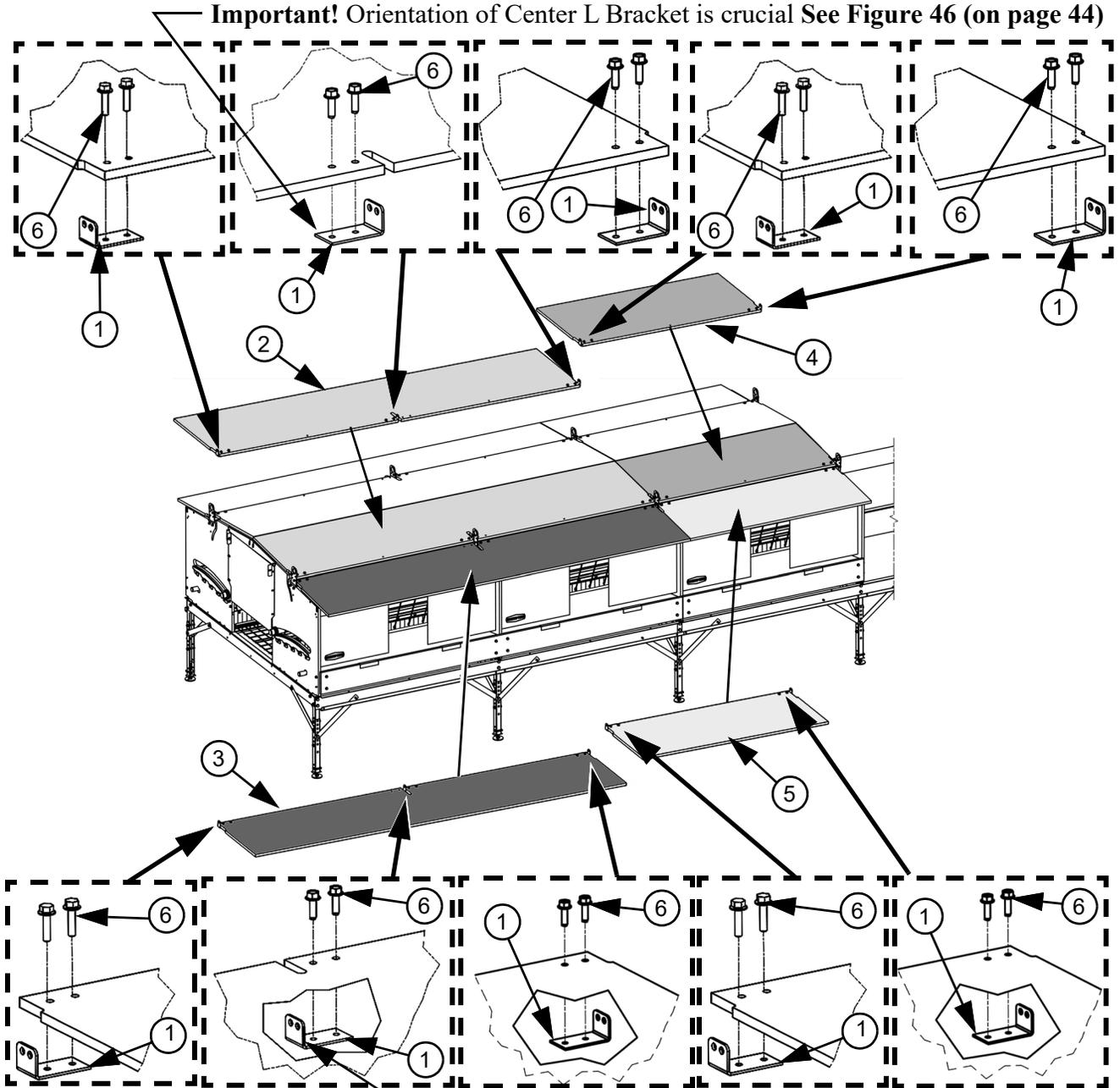
Important! Orientation of Center L Bracket is crucial **See Figure 46 (on page 44)**

Item	Description	RDE-49	RDE-58
		Part No.	
1	Double Hinged Roof L Brkt.	57326	57326
2	Flat Top Upper Roof Plate 2.4m	57327	57327
3	Flat Top Lower Roof Plate 2.4m	57334	57328
4	Flat Top Upper Roof Plate 1.2m	57327-1	57327-1
5	Flat Top Lower Roof Plate 1.2m	57334-1	57328-1
6	M6 x 25 DIN7500-D Taptite	201067	201067
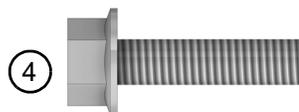
Figure 45. Assembling Roof Plates

Roof Plate Installation

1. Install Top Hinged Roof Plate Assemblies and Bottom Hinged Roof Plate Assemblies using M6 Hex Bolts **(Item 5)** and M6 Lock Nuts **(Item 6) as shown.**

Important! Center Hinges are Offset.
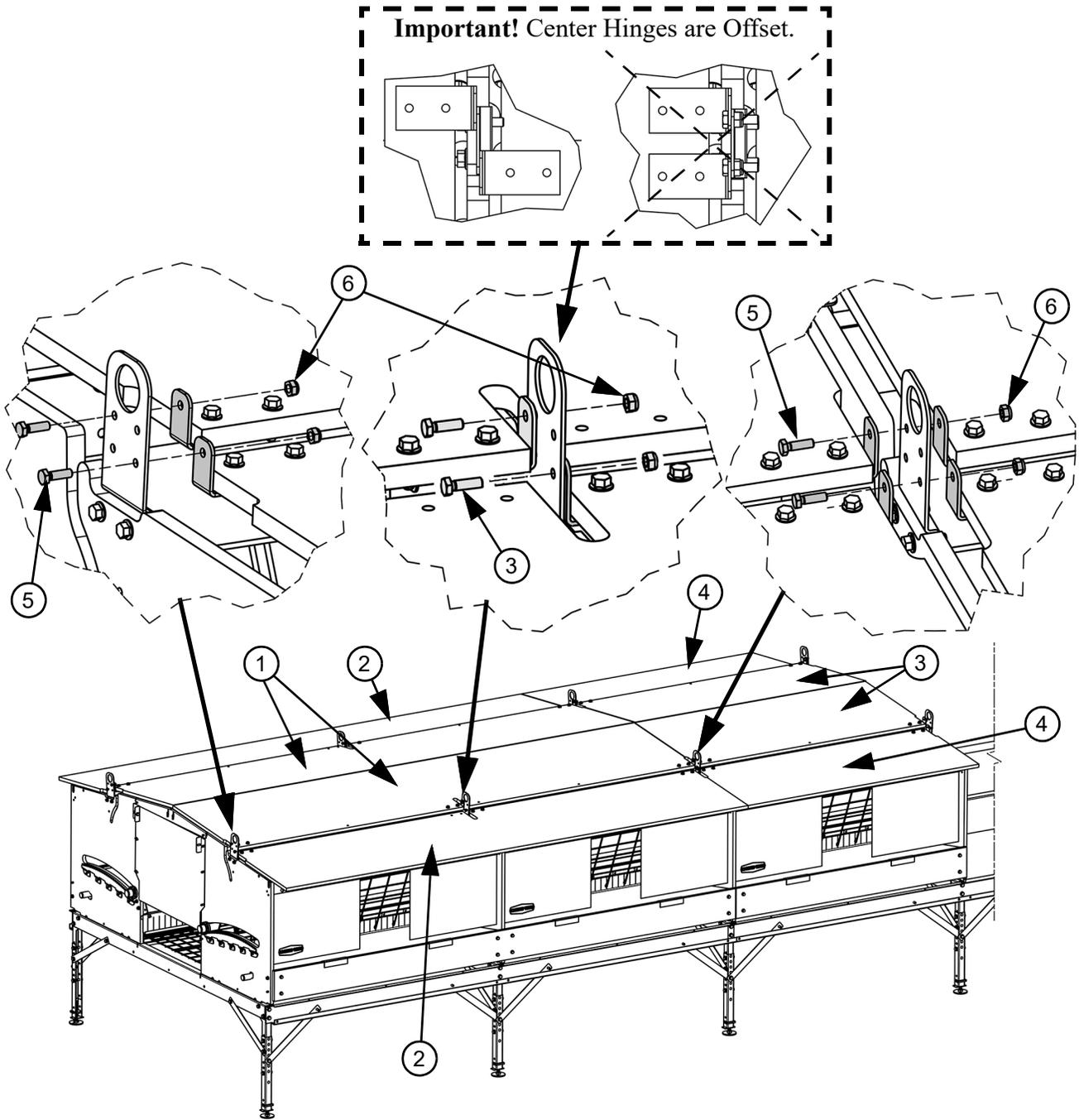
		RDE-49	RDE-58
Item	**Description**	**Part No.**	
1	Top Hinged Roof Plate Assembly (2.4m)	--	--
2	Bottom Hinged Roof Plate Assembly (2.4m)	--	--
3	Top Hinged Roof Plate Assembly (1.2m)	--	--
4	Bottom Hinged Roof Plate Assembly (1.2m)	--	--
5	M6 x 20 DIN933 Hex Bolt	201034	201034
6	M6 DIN985 Lock Nut	201037	201037
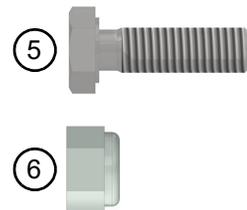
Figure 46. Roof Plate Installation

Balcony Installation

Balcony Arms for Fixed Balconies

1. If there is not a Slot in the top of the 1st Nest Front Rail **(Item 1)**, install a Balcony Starter Bracket **(Item 2)** using M8 Taptites **(Item 3) as shown.**
2. Install M8 U-Bolts **(Item 4)** in all Balcony Arms **(Item 5)** with M8 Flange Nuts **(Item 6)** but *do not tighten down at this time*.
3. Install all Balcony Arms in the Slots in the Nest Front Rails and attach with one M8 Taptite **(Item 6)**.
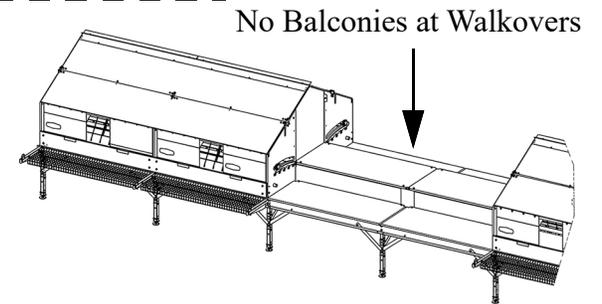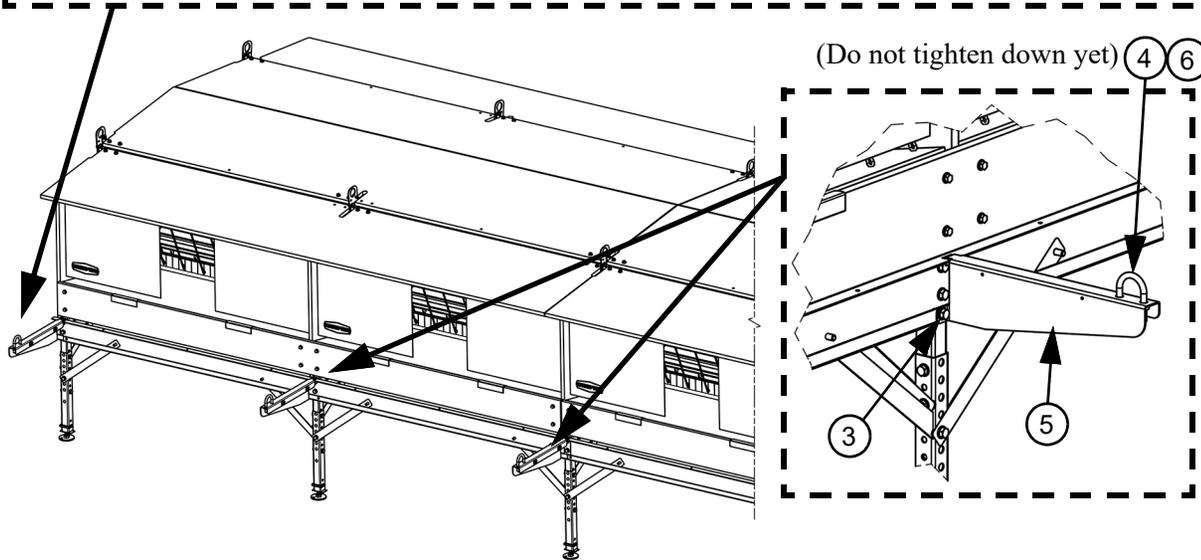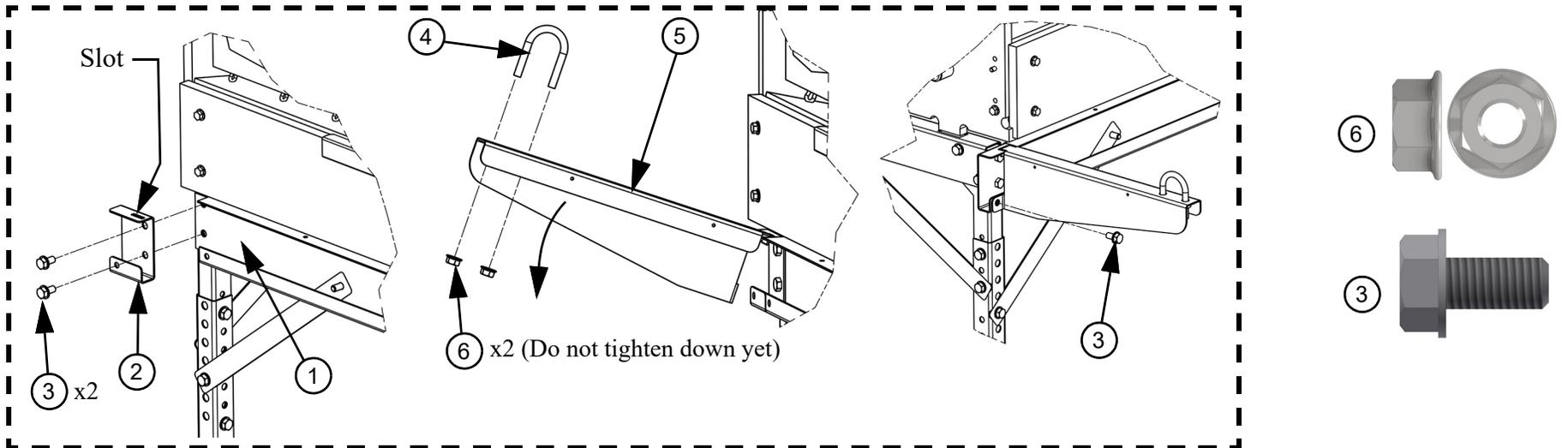
Item	Description	Part No.
1	Nest Front Rail	--
2	Balcony Starter Bracket	58207
3	M8 x 16 Taptite	201047
4	M8-1.25 x 1.676 U Bolt	201048
5	Balcony Arm	58009
6	M8-1.25 DIN6923 Fl. Nut	201001

Figure 47.Balcony Installation

Balcony Arms for Folding Balconies

1. Attach FP Front Brackets **(Item 1)** to Pivot Brackets **(Item 2)** with M8 Hardware **as shown**.
2. Attach a U-Bolt **(Item 3), Eye Bolt (Item 4)**, and Loop Clamp **(Item 5)** to each Front Bracket **as shown**. ***Do not*** *tighten down the U-Bolt Nuts at this time.*
3. Attach Balcony Arms to the Nest Front Rails with M8 Taptites **(Item 9)**.

Do not over-tighten.

Do Not tighten down U-Bolt Yet.

(A) Ends of Balconies

- Ends of System
- Walkways
- Expulsion Unit

(B) (Do not tighten down U Bolt yet)

(A & B)
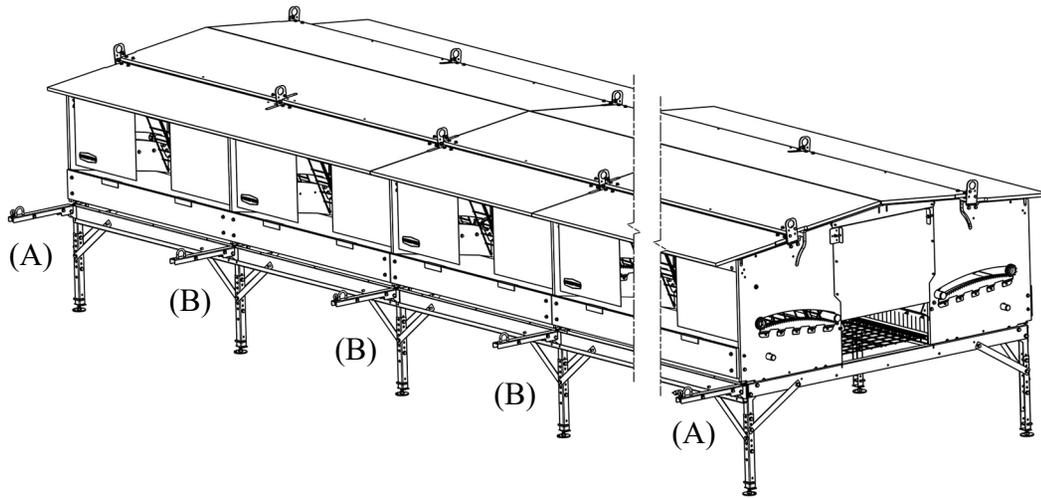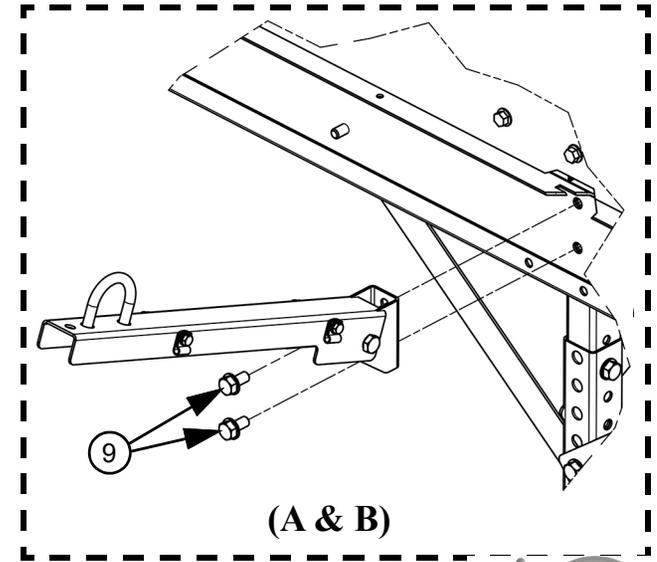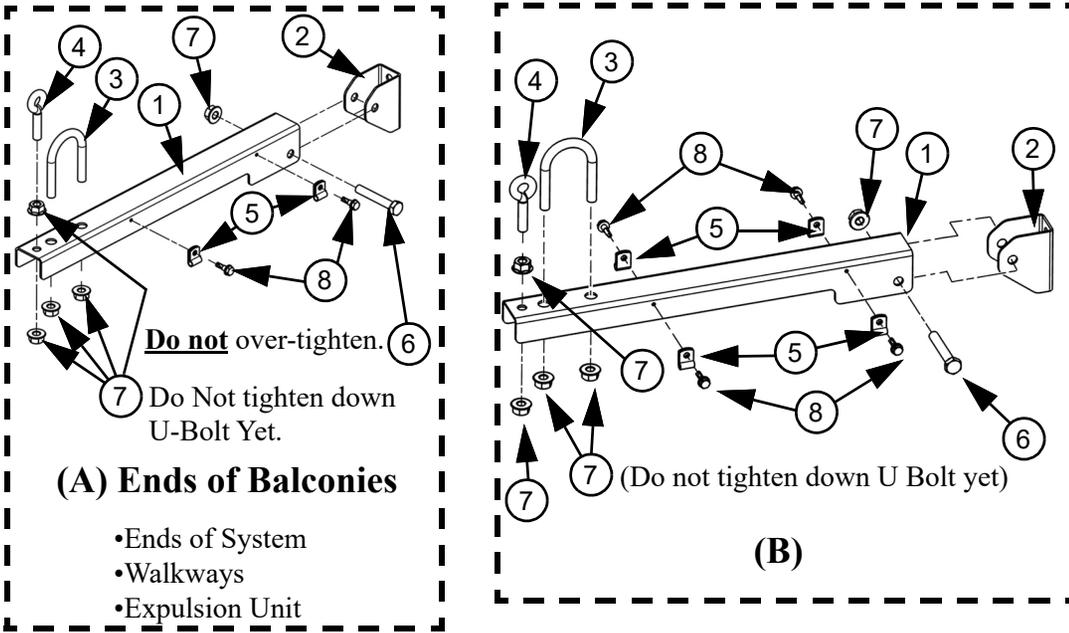
Item	Description	Part No.
1	FP Front Bracket	58297
2	Pivot Bracket	58298
3	M8-1.25 x 1.676 U Bolt	201048
4	M8x30 Eye Bolt	201084
5	3/16 Loop Clamp	57001
6	M8 x 50 DIN 933 Hex Bolt	201006
7	M8-1.25 DIN6923 Fl. Nut	201001
8	4.8 x 16mm HXWH Screw	201028
9	M8 x 16 Taptite	201047
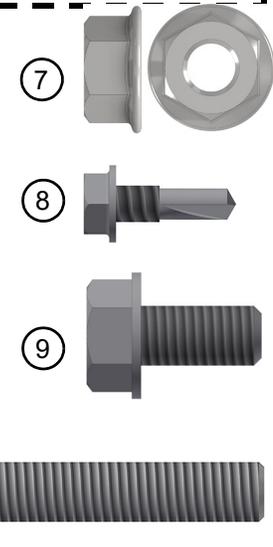
Figure 48. Folding Balcony Installation

(A)

(B)

(B)

(B)

(A)

4.

Balcony Approach

1. Use four M6 Screws **(Item 1)** and 3/16 Loop Clamps **(Item 2)** to attach each Approach **(Item 3) as shown.**
2. Install Perch Tubes **(Item 4)** as shown, tightening down the U-Bolts **(Item 5)** as you go. Slide Perch Tubes together and attach with M6 Screws **(Item 1)**.
3. Cut off Perch Tubes at Walkways an Expulsion Units and Install Tube Plugs **(Item 6)**.

Cut off Perch Tubes at Walkovers and Expulsion units.
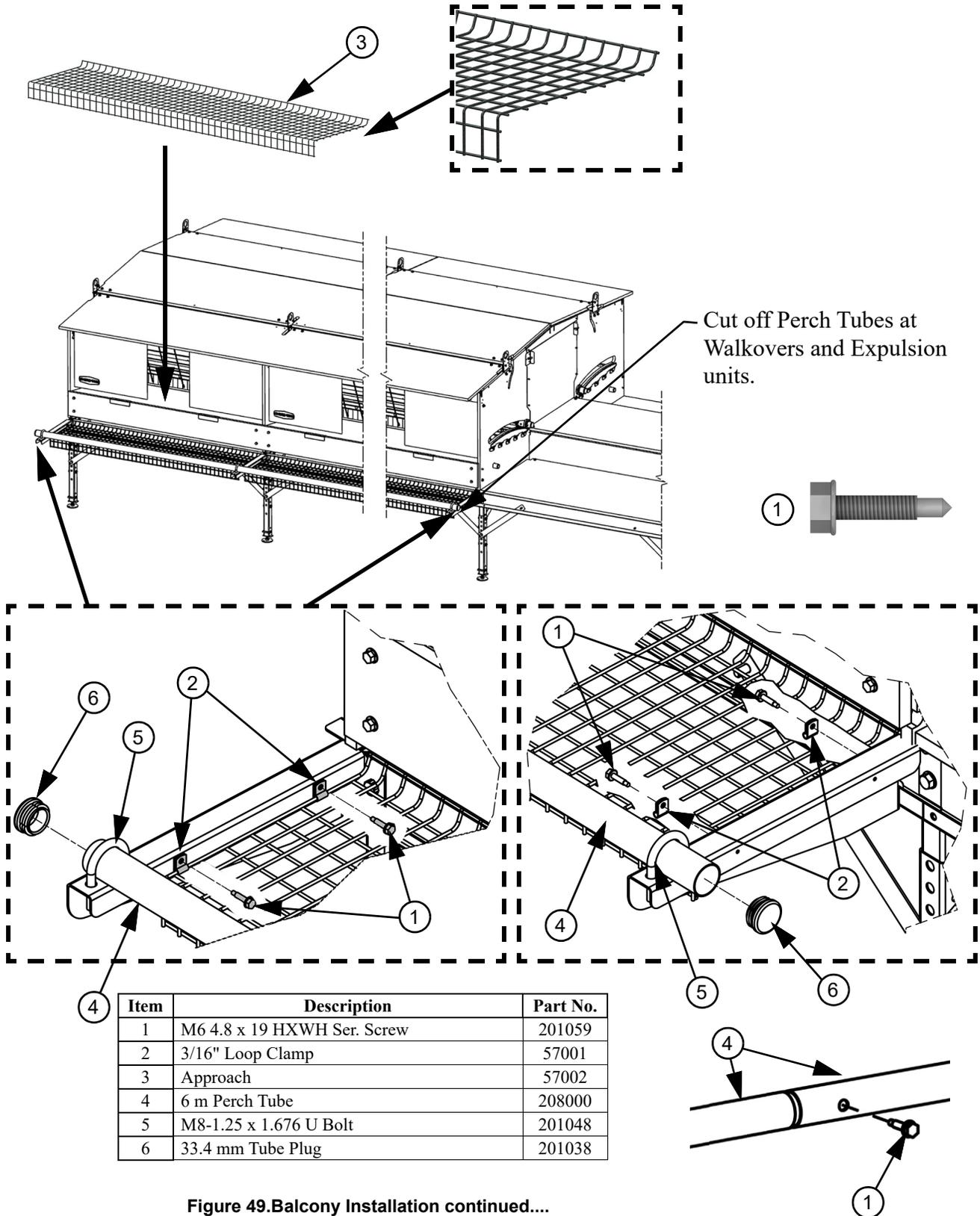
Item	Description	Part No.
1	M6 4.8 x 19 HXWH Ser. Screw	201059
2	3/16" Loop Clamp	57001
3	Approach	57002
4	6 m Perch Tube	208000
5	M8-1.25 x 1.676 U Bolt	201048
6	33.4 mm Tube Plug	201038

Figure 49.Balcony Installation continued....

Folding Balcony Ropes

1. Assemble Expulsion Brackets **(Item 1)** and Plastic Bearings **(Item 2)** together.
2. Slide the assembled Expulsion Brackets onto the Expulsion Pipes (One per Balcony Arm).
3. Slip the Nylon Rope **(Item 7)** through holes in each Expulsion Bracket **(Item 1)** and tie a knot in the end.
4. With the Expulsion Tubes in the Closed (Back) position raise the Balcony all the way up, feed the Ropes through the Rope Guides **(Item 3)**, through the Eye-hooks, and use Nylon Split Bolt/Caps **(Items 8 & 9)** to Cinch the Ropes up tight. Actuate the System open and closed and adjust Split Bolts as needed.

Item	Description	Part No.
1	Expulsion Bracket	58296
2	33.5 Plastic Bearing	201089
3	Rope Guide	51173
4	M6x35 DIN 931 Bolt	201179
5	M6 DIN 9021 Washer	BEV 049021EV06
6	M6 DIN985 Lock Nut	201037
7	3/16" Nylon Braid Rope	5-37173
8	Split Bolt Cap	40788
9	Split Bolt	40787

Figure 50. Balcony Rope Installation

ME2531B

Valego® RDE Nest Control (601150)

1. See the installation manual included with the 601150 Control for Installation and operation instructions.
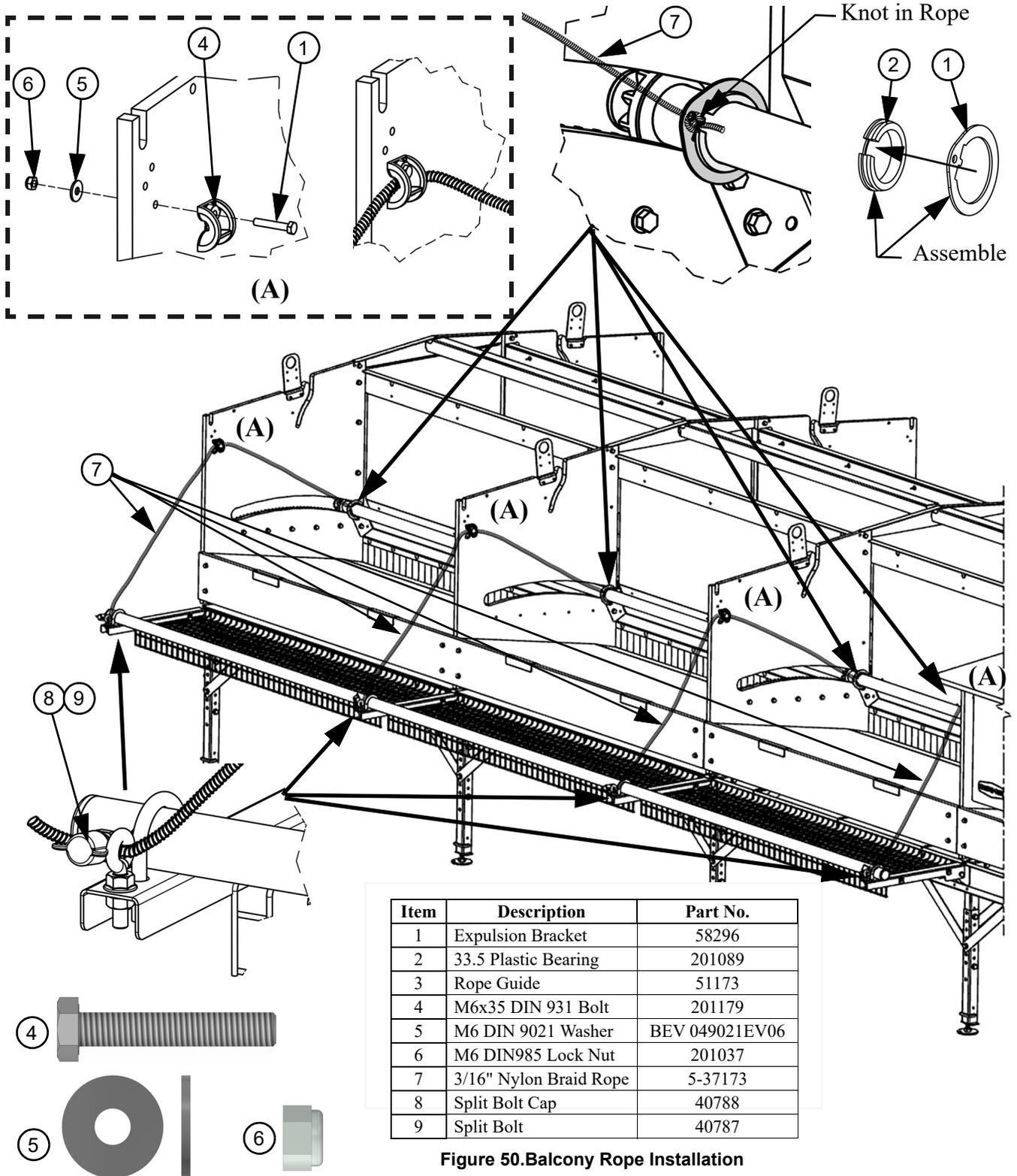
Pagoda Systems

Pagoda Systems require special structures to allow for stacking Nests on top of one another. Follow these instructions only if you are installing a Pagoda System.

Cross Beam Brackets and Excluder Brackets

1. Install Cross Beam Brackets **(Item 1)** at each 1.2 m section with M8 Hardware **as shown**.
2. Install Excluder Brackets **(Item 5)** on the Nest Crosses **(Item 8)** with M6 and M8 Taptites **(Items 6 & 7)**.
3. Rest the Nest Cross Assemblies on top of the Cross Beam Brackets **(Item 1). Do not fasten yet.**

Ends of System, Walkways, or Expulsion Unit.

		RDE-49	RDE-58
Item	Description	Part No.	
1	Pagoda Cross Beam Bracket	57350	57350
2	M8 x 45 DIN933 Hex Bolt	201215	201215
3	M8 DIN125A Washer	201013	201013
4	M8-1.25 DIN 6923 Flange Nut	201001	201001
5	Excluder Bracket	58342	58342
6	M6x16 DIN7500D Taptite	201077	201077
7	M8 x 16 Taptite	201047	201047
8	RDE 49 Nest Cross	57340	--
	RDE 58 Nest Cross	--	57317

Figure 51.Pagoda Cross Beam Brackets

Nest Crosses

4. Fasten the Nest Crosses to the Cross Beam Brackets with M8 Taptites **(Item 1) as shown**.
5. Fasten the Nest Crosses to the Rack Plates with M8 Hex Bolts **(Item 4)**, M8 Washers **(Item 5)**, and M8 Flange Nuts **(Item 6)**.

Note: Attachment and hardware is the same on both sides.
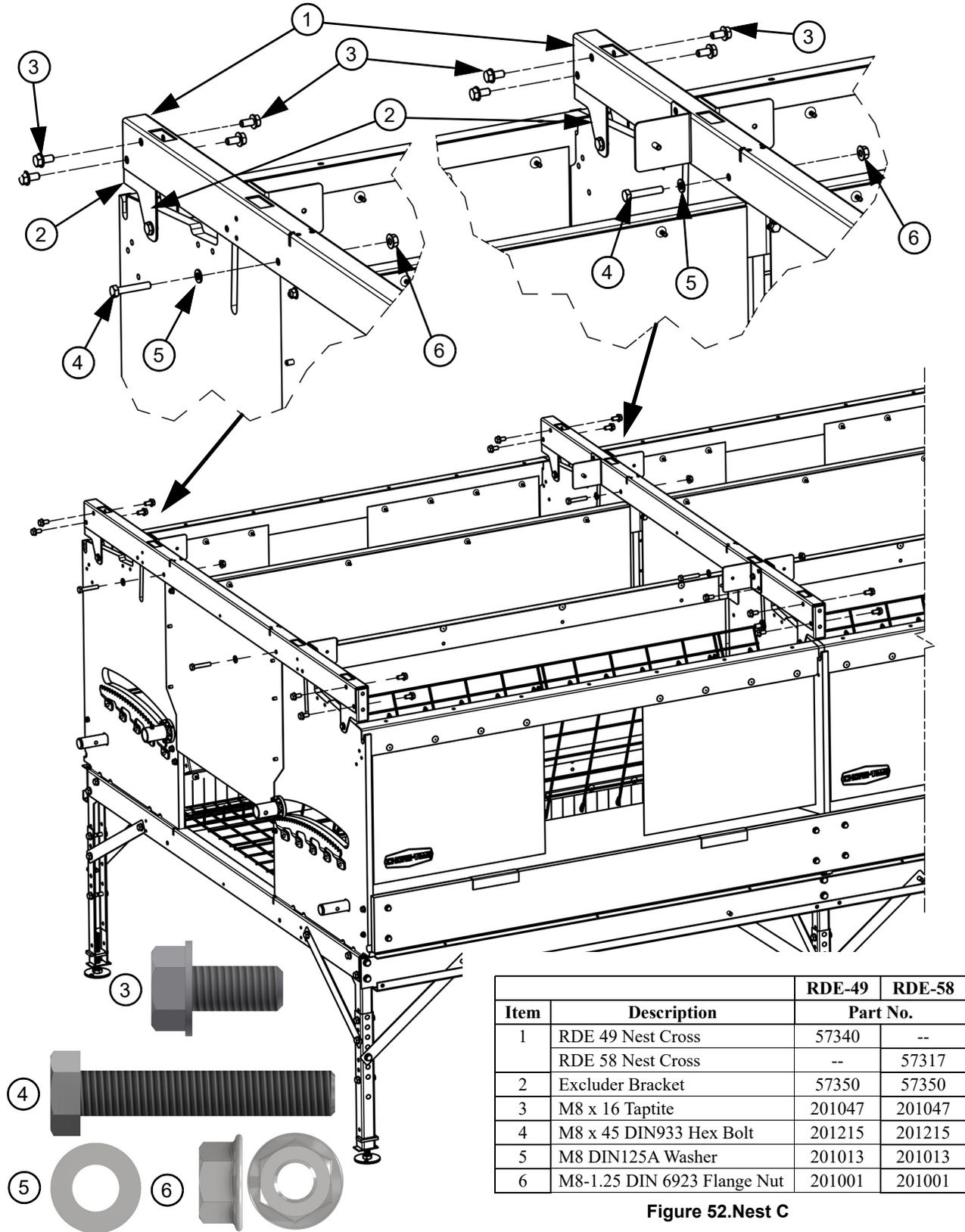
		RDE-49	RDE-58
Item	Description	Part No.	
1	RDE 49 Nest Cross	57340	--
	RDE 58 Nest Cross	--	57317
2	Excluder Bracket	57350	57350
3	M8 x 16 Taptite	201047	201047
4	M8 x 45 DIN933 Hex Bolt	201215	201215
5	M8 DIN125A Washer	201013	201013
6	M8-1.25 DIN 6923 Flange Nut	201001	201001

Figure 52.Nest C

Nest Excluders and Nest Bottom Rails

Important! Nest Excluders and Nest Bottom Rails are not required at walkways.

1. Attach Lower Nest Excluders **(Item 1)** with M8 Taptites **(Item 3)** with **flanges away from bird area.**
2. Install Nest Bottom Rails **(Item 2)** in the Slots in the Nest Crosses.

Note: Attachment and hardware is the same on both sides.

Flanges away from bird area.

Slot

Flanges away from bird area.
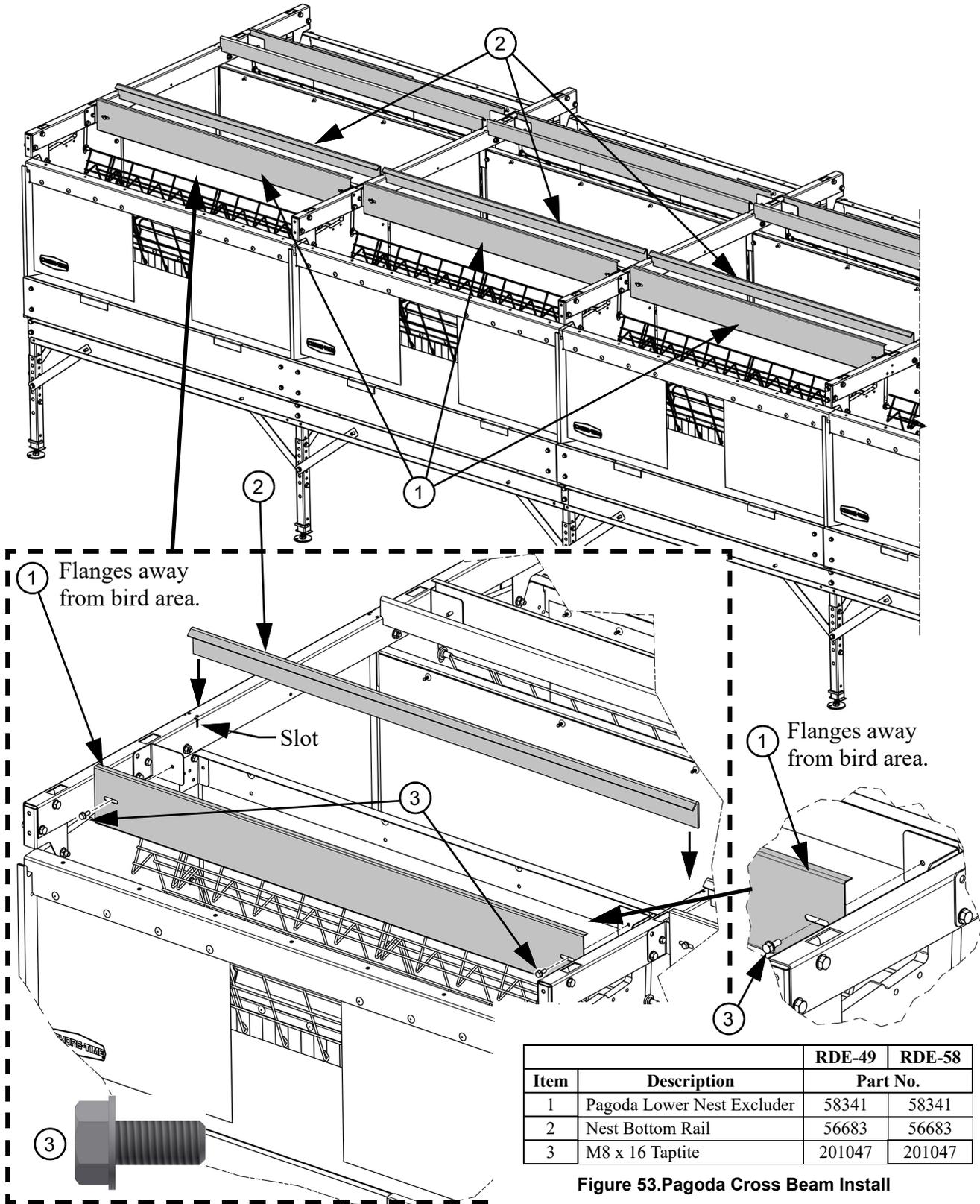
		RDE-49	RDE-58
Item	**Description**	**Part No.**	
1	Pagoda Lower Nest Excluder	58341	58341
2	Nest Bottom Rail	56683	56683
3	M8 x 16 Taptite	201047	201047

Figure 53. Pagoda Cross Beam Install

     ME2531B

Nest Front Rails

1. Attach 2.4m Nest Front Rails **(Item 1)** with M8 Taptites **(Item 3) as shown**.
2. Some configurations may require a 1.2m Nest Front Rails **(Item 2)** Attach with M8 Taptites.

		RDE-49	RDE-58
Item	**Description**	**Part No.**	
1	2.4 m Nest Front Rail	57316	57316
2	1.2 m Nest Front Rail	57346	57346
3	M8 x 16 Taptite	201047	201047
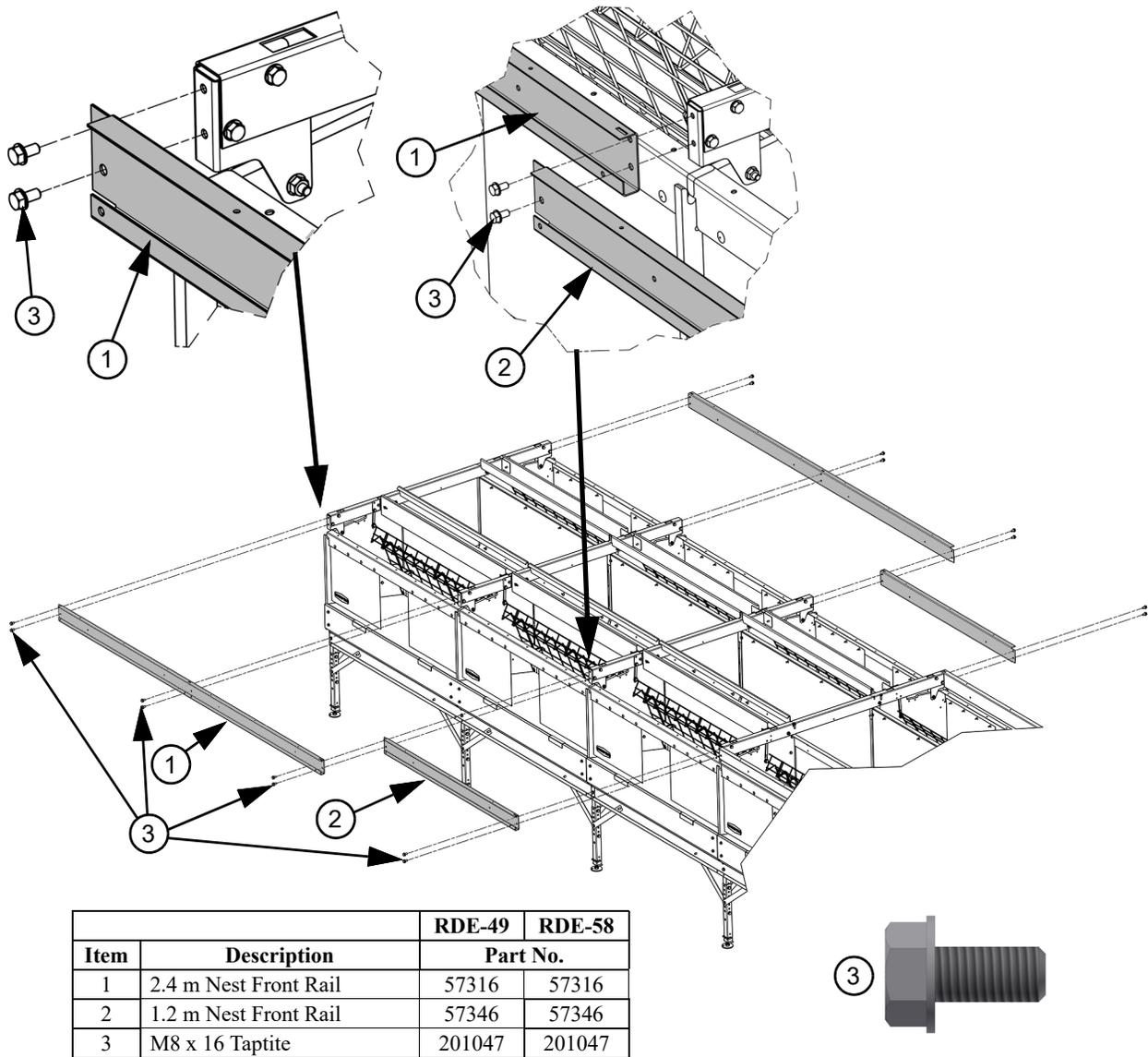
Figure 54.Nest Front Rails

Pagoda Upper Tier Installation

1. Once the Nest Front Rails are installed, the upper Tier of the Pagoda style Nest is exactly the same as the installation of a single Tier Nest. Proceed to the **"Egg Belt Installation" on page 10** and follow the installation instructions from that point to complete the Upper Tier of the Nest.
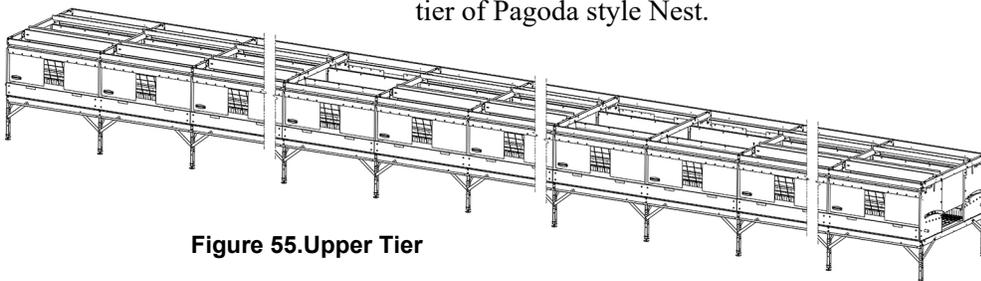
Figure 55.Upper Tier

Part Numbers

RDE 58 Flat Roof Nest Kit (57325-X)

There are three different Nest Kits that share many of the same part numbers. The following two pages show part numbers shared by all three kits. See the second page for part numbers that are specific to the -2 and -3 Kits.

Standard Nest Section Parts Continued.....

57325-1 End Kit

57325-2 1.2m Kit

Standard Parts All Models

RDE 58 Flat Roof Nest Kit (57325-X) Part Numbers

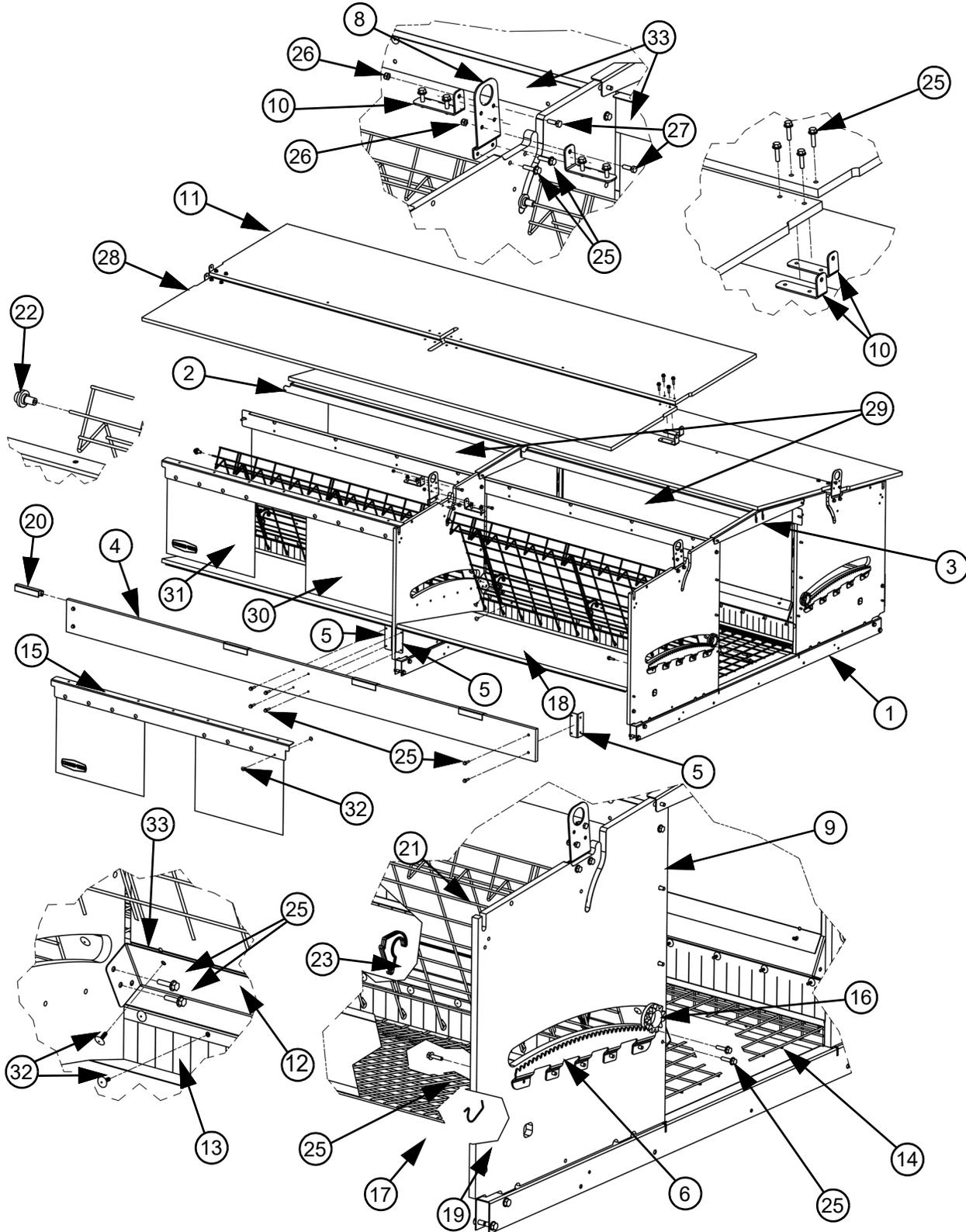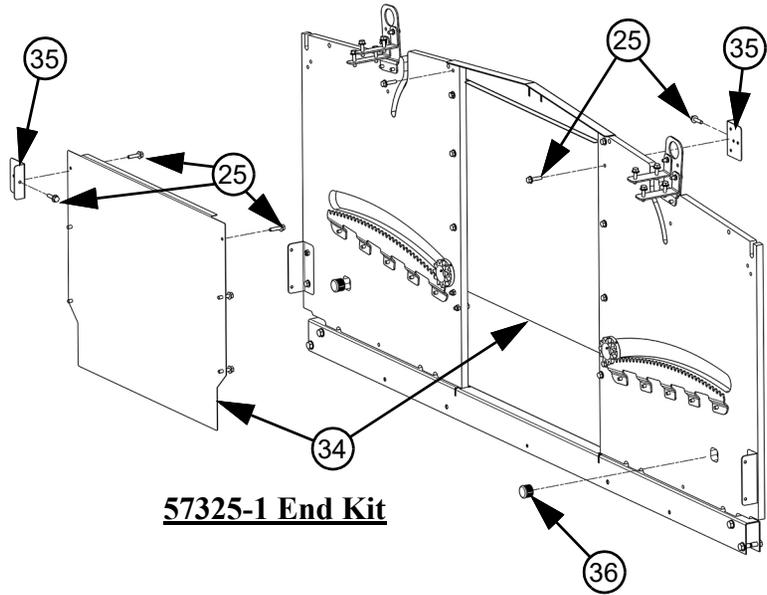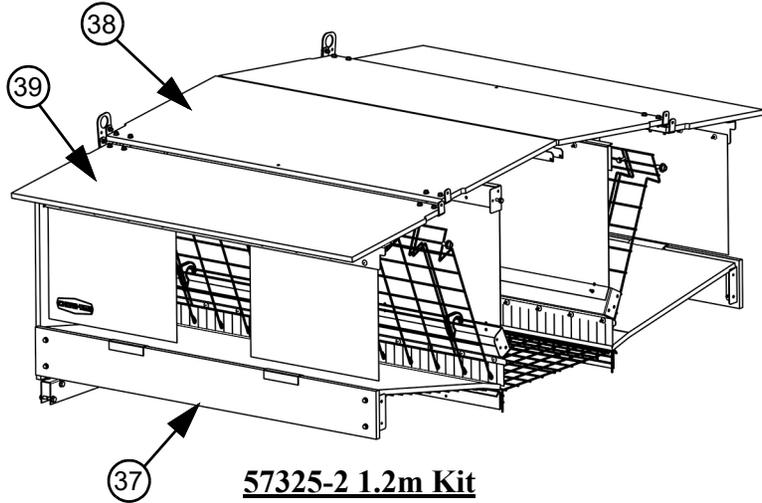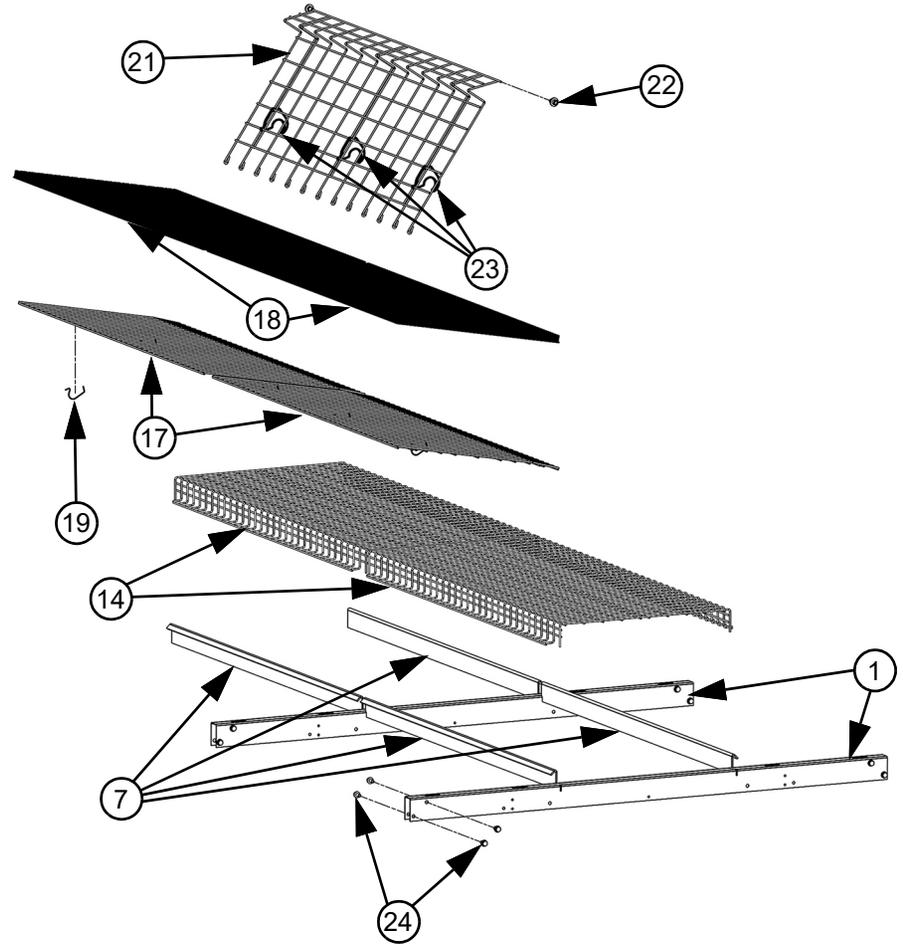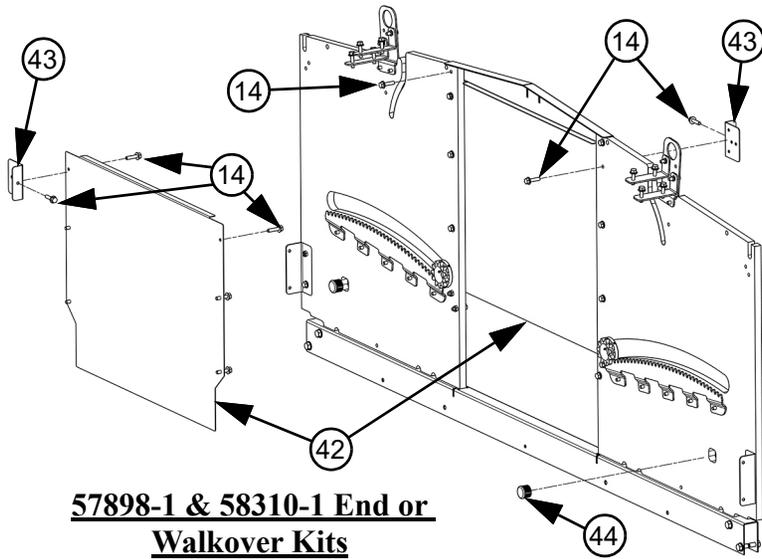| Item	Description	RDE-58		
		57325	**57325-1**	**57325-2**
1	RDE-58 Nest Cross	57317	57317	57317
2	Flat Top Mid Support	57321	--	57321
3	Flat Top Cross Brace	57322	57322	57322
4	Nest Entrance Board (2.4 m)	56691	--	--
5	Corner Bracket	56692	--	56692
6	Toothed Rack Plate	56993	56993	56993
7	Nest Bottom Rail	56683	--	56683
8	Flat Top Hinge	57323	57323	57323
9	RDE 58 Flat Top Side Panel	57324	57324	57324
10	L Bracket Hinge	57326	--	57326
11	RDE 58 Flat Top Upper Lid	57327	--	57327-1
12	Nest Back Rail	56684	--	56684
13	Egg Curtain	56863	--	56863
14	Egg Tray	56685	--	56685
15	Flat Top Curtain Lid Front Support	57329	--	57329
16	Toothed Single Sided Wheel	600622	600622	600622
17	RDE-58 Nest Bottom	57296	--	57296
18	590 x 1175 Nest Pad	600357	--	600357
19	Nest Floor Wire Clip	57004	--	57004
20	Nest Pad Clip	201223	--	201223
21	RDE 58 Expeller Panel	57277	--	57277
22	Expulsion Panel Lock Bushing	600789	--	600789
23	Expulsion Panel Clamp	600795	--	600795
24	M8 x 16 DIN7500 Taptite	201047	201047	201047
25	M6 x 25 DIN7500-D Taptite	201067	201067	201067
26	M6 DIN985 Lock Nut	201037	201037	201037
27	M6 x 20 DIN933 Hex Bolt	201034	201034	201034
28	2.4m RDE Flat Top Lower Lid	57328	--	57328
29	RDE Back Wall	57003	--	57003
30	Front Entrance Curtain	57840	--	57840
31	Front Entrance Curtain with Logo	57841	--	57841
32	2 Piece Rivet	56879	--	56879
33	PP Nest Wall Bracket	58067	--	58067
34	RDE Walkover Panel	--	57640	--
35	Nest Wall Start Bracket	--	58068	--
36	25mm Plastic Cap w/Fluting	--	201080	--
37	Nest Entrance Board (1.2 m)	--	--	56691-1
38	1.2m RDE 58 Flat Top Upper Lid	57327-1	--	57327-1
39	1.2 RDE 58 Flat Top Lower Lid	57328-1	--	57328-1

RDE 49 (57898-X) & RDE 58 (58310-X) Flat Roof Pagoda Nest Kits

There are three different Nest Kits that share many of the same part numbers. The following two pages show part numbers shared by all three kits. The third page shows the part numbers that are specific to the -2 and -3 Kits.

RDE 49 & 58 Pagoda Parts Continued....

DETAIL D

DETAIL F

DETAIL C

DETAIL B

DETAIL E
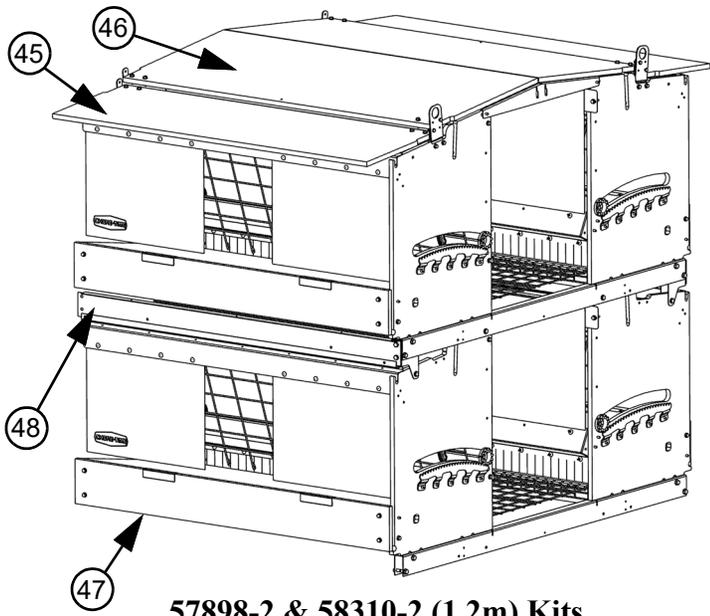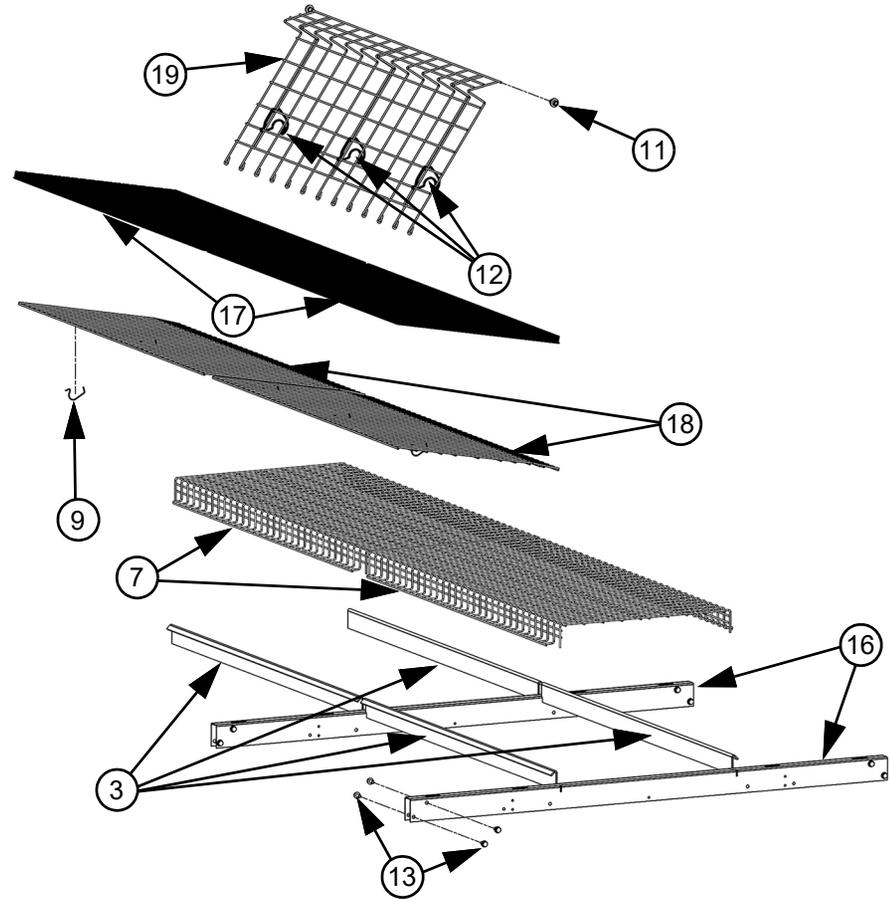
DETAIL A
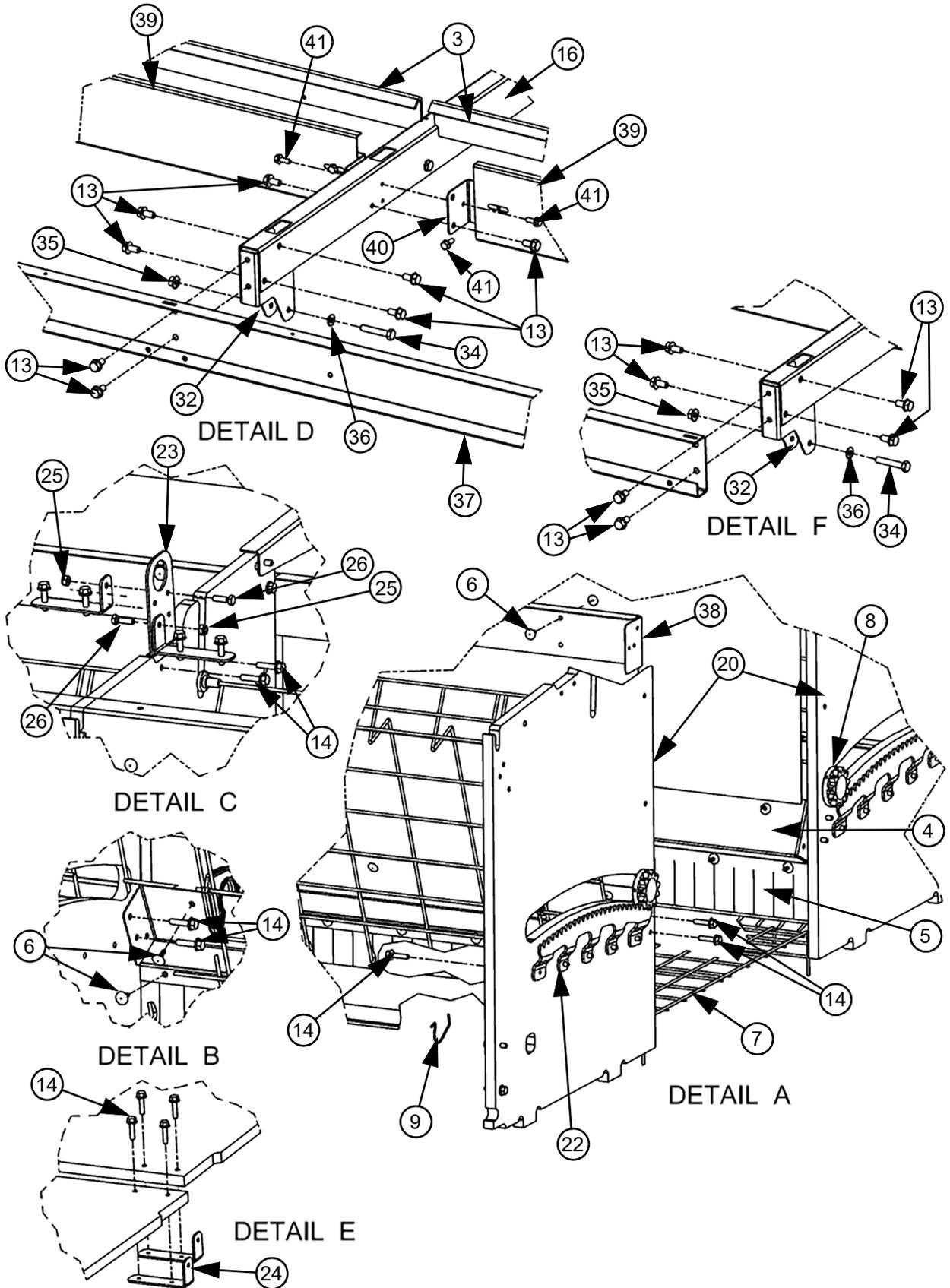
Pagoda Standard Nest Parts Continued.....

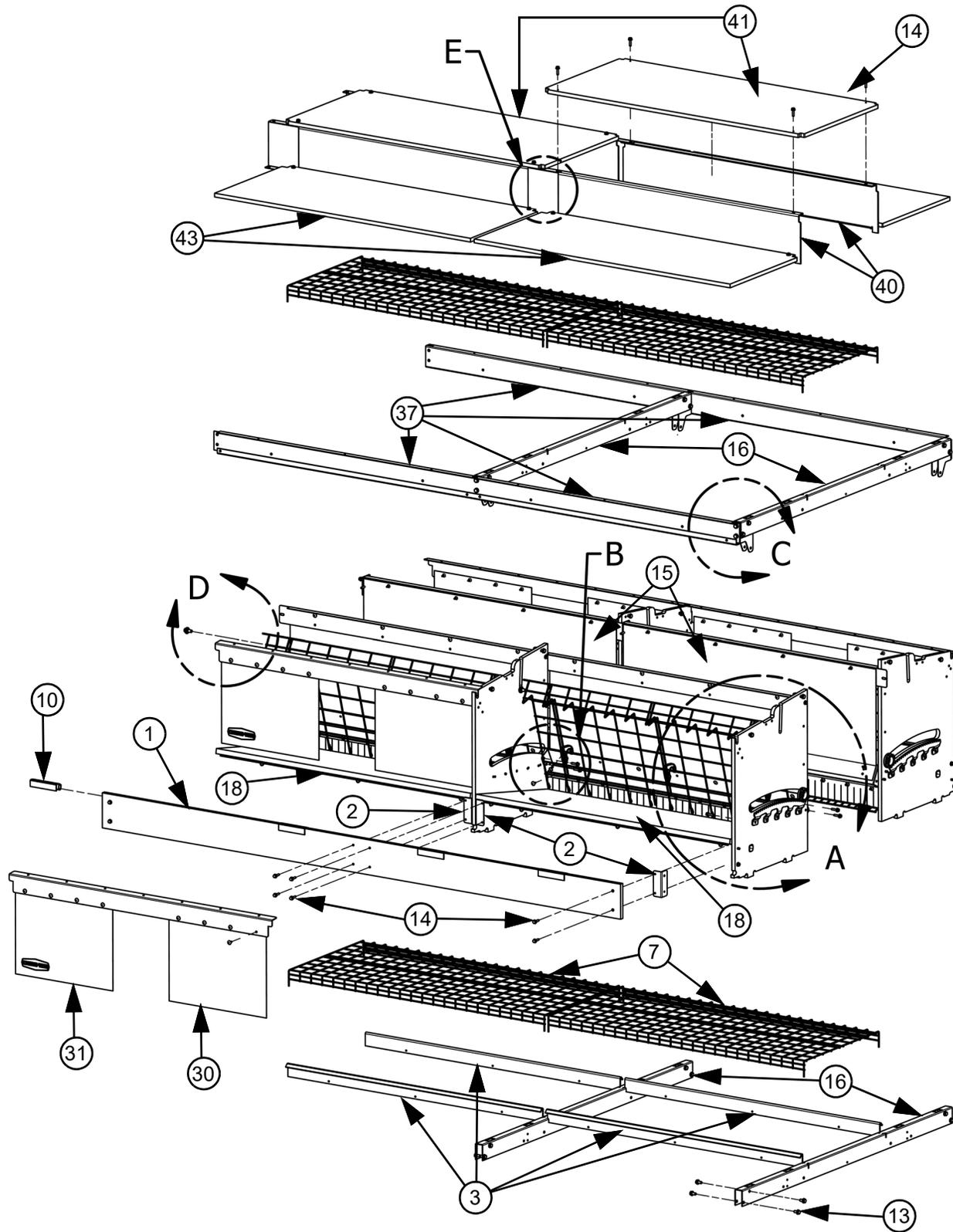**57898-1 & 58310-1 End or Walkover Kits**

57898-2 & 58310-2 (1.2m) Kits

Standard Parts All Models

ME2531B

# RDE 49 Pagoda (57898-X) & RDE 58 Pagoda (58310-X) Part Numbers

Item	Description	RDE-49 Pagoda			RDE-58 Pagoda		
		57898	57898-1	57898-2	58310	58310-1	58310-2
1	Nest Entrance Board (2.4 m)	56691	--	--	56691	--	--
2	Corner Bracket	56692	--	56692	56692	--	56692
3	Nest Bottom Rail	56683	--	56683	56683	--	56683
4	Nest Back Rail	56684	--	56684	56684	--	56684
5	Egg Curtain	56863	--	56863	56863	--	56863
6	2 Piece Rivet	56879	--	56879	56879	--	56879
7	Egg Tray	56685	--	56685	56685	--	56685
8	Toothed Single Sided Wheel	600622	600622	600622	600622	600622	600622
9	Nest Floor Wire Clip	57004	--	57004	57004	--	57004
10	Nest Pad Clip	201223	--	201223	201223	--	201223
11	Expulsion Panel Lock Bushing	600789	--	600789	600789	--	600789
12	Expulsion Panel Clamp	600795	--	600795	600795	--	600795
13	M8 x 16 DIN7500 Taptite	201047	201047	201047	201047	201047	201047
14	M6 x 25 DIN7500-D Taptite	201067	201067	201067	201067	201067	201067
15	RDE Back Wall	57003	--	57003	57003	--	57003
16	RDE-49 Nest Cross	57340	57340	57340	--	--	--
	RDE-58 Nest Cross	--	--	--	57317	57317	57317
17	500 x 1175 Nest Pad	600355	--	600355	--	--	--
	590 x 1175 Nest Pad	--	--	--	600357	--	600357
18	RDE-49 Nest Bottom	57128	--	57128	--	--	--
	RDE-58 Nest Bottom	--	--	--	57296	--	57296
19	RDE 49 Expeller Panel	600421	--	600421	--	--	--
	RDE 58 Expeller Panel	--	--	--	57277	--	57277
20	RDE 49 Flat Top Side Panel	57331	57331	57331	--	--	--
	RDE 58 Flat Top Side Panel	--	--	--	57324	57324	57324
21	2.4m Flat Top Lower Lid	57334	--	--	57327	--	--
22	Toothed Rack Plate	56680	56680	56680	56993	56993	56993
23	Flat Top Hinge	57323	57323	57323	57323	57323	57323
24	L Bracket Hinge	57326	--	57326	57326	--	57326
25	M6 DIN985 Lock Nut	201037	201037	201037	201037	201037	201037
26	M6 x 20 DIN933 Hex Bolt	201034	201034	201034	201034	201034	201034
27	Flat Top Mid Support	57321	--	57321	57321	--	57321
28	Flat Top Cross Brace	57322	57322	57322	57322	57322	57322
29	2.4m RDE Flat Top Upper Lid	57327	--	--	57327	--	--
30	Front Entrance Curtain	57840	--	57840	57840	--	57840
31	Front Entrance Curtain with Logo	57841	--	57841	57841	--	57841
32	Pagoda Cross Beam Bracket	57350	57350	57350	57350	57350	57350
33	Flat Top Curtain Lid Front Support	57329	--	57329	57329	--	57329
34	M8 x 45 DIN 933 Hex Bolt	201215	201215	201215	201215	201215	201215
35	M8-1.25 DIN 6923 Flange Nut	201001	201001	201001	201001	201001	201001
36	M8 DIN 125A Washer	201013	201013	201013	201013	201013	201013
37	2.4m Nest Front Rail	57316	--	--	57316	--	57316
38	PP Nest Wall Bracket	58067	--	58067	58067	--	58067
39	Pagoda Lower Nest Excluder	58341	--	58341	58341	--	58341
40	Excluder Bracket	58342	--	58342	58342	--	58342
41	M6 x 16 DIN7500D Taptite	201077	--	201077	201077	--	201077
42	RDE Walkover Panel	--	58014	--	--	57640	--
43	Nest Wall Start Bracket	--	58068	--	--	58068	--
44	Round Plastic Cap w/Fluting	--	201080	--	--	201080	--
45	1.2m RDE Flat Top Lower Lid	--	--	57334-1	--	--	57327-1
46	1.2m RDE Flat Top Upper Lid	--	--	57327-1	--	--	57327-1
47	1.2m Nest Entrance Board	--	--	56691-1	--	--	56691-1
48	1.2m Nest Front Rail	--	--	57346	--	--	57346

ME2531B

RDE 49 Pagoda Walkover Kit (58058-X)

The Nest Kits are available in 2.4 m or 1.2 m sections. They both share many of the same part numbers. See the second page for the shorter parts that are specific to the 1.2 m sections.

Walkover Kits Parts Continued.....

DETAIL E

DETAIL C

DETAIL D

DETAIL B

Standard Parts All Models

DETAIL A

58058-1 (1.2m) Kit
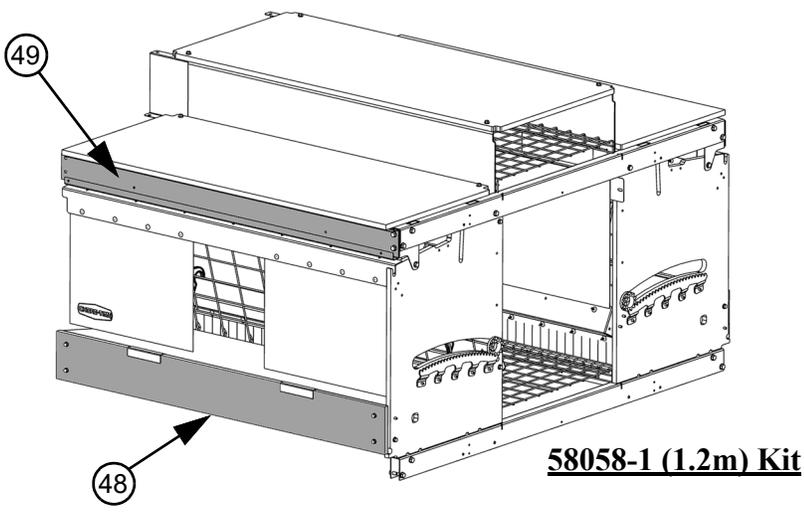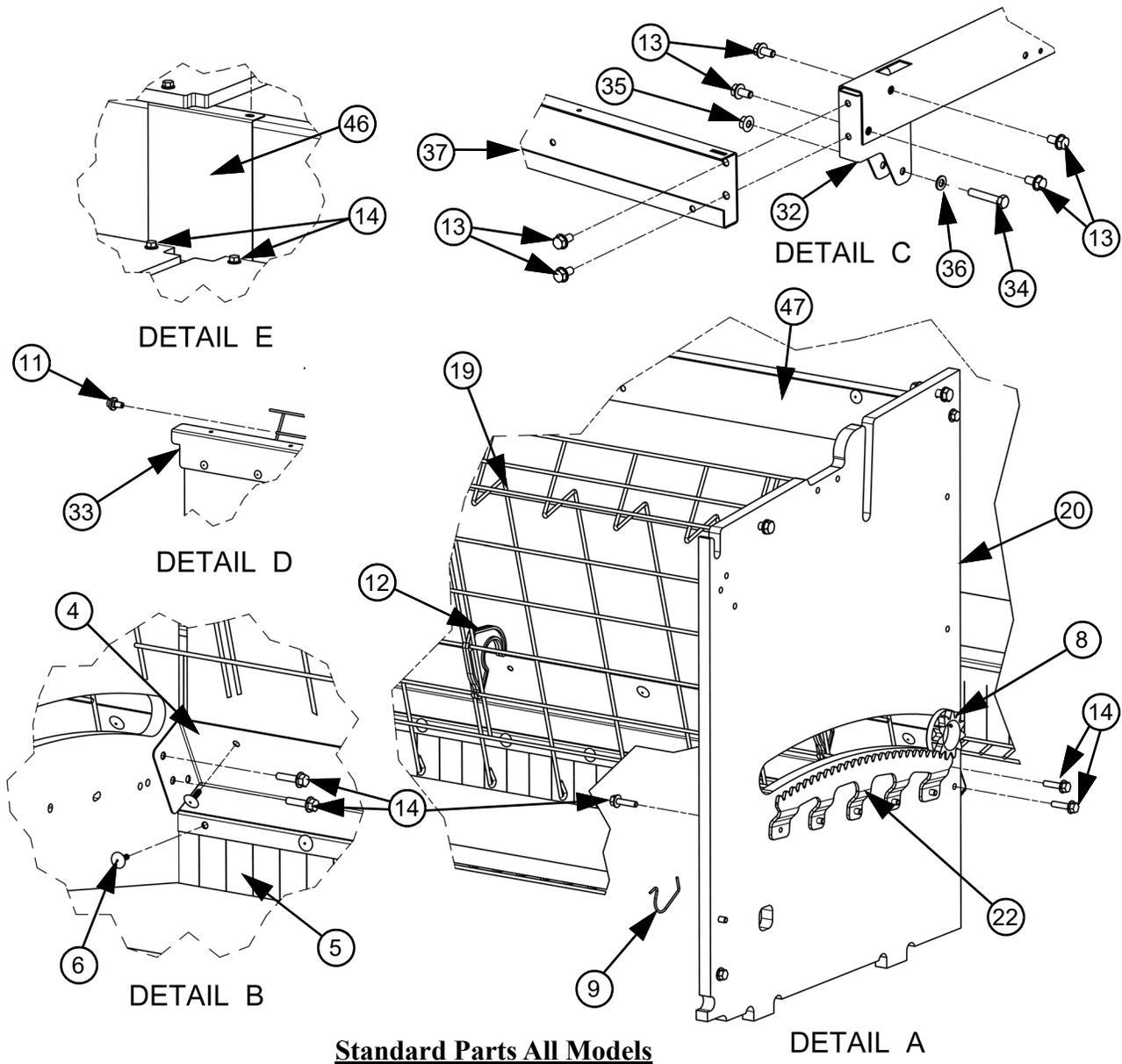
RDE 49 Pagoda Walkover Kit Part Numbers

Item	Description	RDE-49 Flat Roof Pagoda [2.4 m] 58058	RDE-49 Flat Roof Pagoda [1.2 m] 58058-1
		Part Number	
1	Nest Entrance Board (2.4 m)	56691	--
2	Corner Bracket	56692	56692
3	Nest Bottom Rail	56683	56683
4	Nest Back Rail	56684	56684
5	Egg Curtain	56863	56863
6	2 Piece Rivet	56879	56879
7	Egg Tray	56685	56685
8	Toothed Single Sided Wheel	600622	600622
9	Nest Floor Wire Clip	57004	57004
10	Nest Pad Clip	201223	201223
11	Expulsion Panel Lock Bushing	600789	600789
12	Expulsion Panel Clamp	600795	600795
13	M8 x 16 DIN7500 Taptite	201047	201047
14	M6 x 25 DIN7500-D Taptite	201067	201067
15	RDE Back Wall	57003	57003
16	RDE-49 Nest Cross	57340	57340
17	500 x 1175 Nest Pad	600355	600355
18	RDE-49 Nest Bottom	57128	57128
19	RDE 49 Expeller Panel	600421	600421
20	RDE 49 Flat Top Side Panel	57331	57331
22	Toothed Rack Plate	56680	56680
30	Front Entrance Curtain	57840	57840
31	Front Entrance Curtain with Logo	57841	57841
32	Pagoda Cross Beam Bracket	57350	57350
33	Flat Top Curtain Lid Front Support	57329	57329
34	M8 x 45 DIN 933 Hex Bolt	201215	201215
35	M8-1.25 DIN 6923 Flange Nut	201001	201001
36	M8 DIN 125A Washer	201013	201013
37	2.4m Nest Front Rail	57316	57316
40	RDE Walkover Rail	57627	57627
41	Center Walkover Platform	57628	57628
43	Walkover Platform	57913	57913
46	Walkover Gap Cover	58011	58011
47	PP Nest Wall Bracket	58067	58067
48	Nest Entrance Board (1.2 m)	--	56691-1
49	Nest Front Rail (1.2 m)	--	57346

## RDE 49 (57910) & RDE 58 (57630) Single Level Walkover Kits
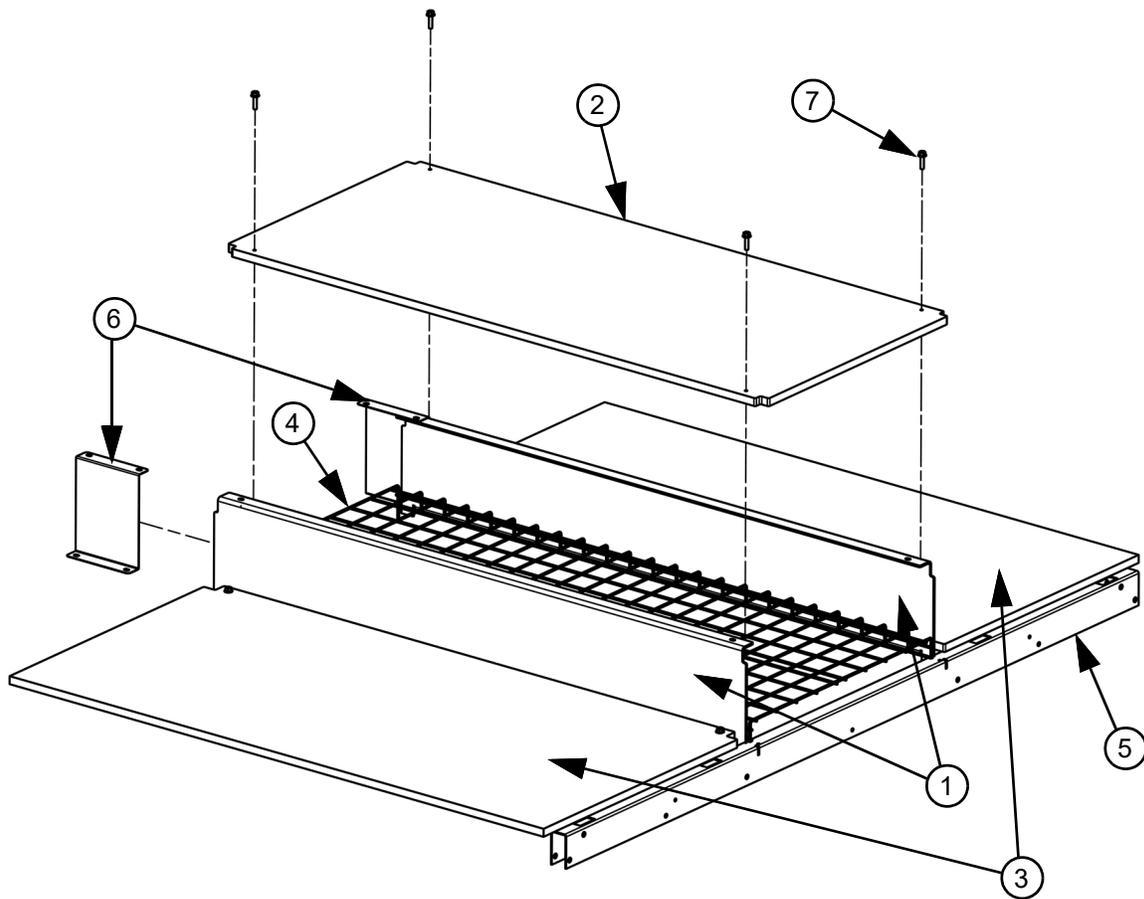
|		RDE-49 Flat Roof [1.2 m] 57910	RDE-58 Flat Roof [1.2 m] 57630
Item	Description	Part Number	
1	RDE Walkover Rail	57627	57627
2	Center Walkover Platform	57628	57628
3	RDE 49 Walkover Platform	--	57629
	RDE 58 Walkover Platform	57913	--
4	Egg Tray	56685	56685
5	RDE 49 Nest Cross	--	57317
	RDE 58 Nest Cross	57340	--
6	Walkover Gap Cover	58011	58011
7	M6 x 25 DIN7500-D Taptite	201067	201067

Expulsion Unit RDE 49 (57185) & RDE 58 (57186)
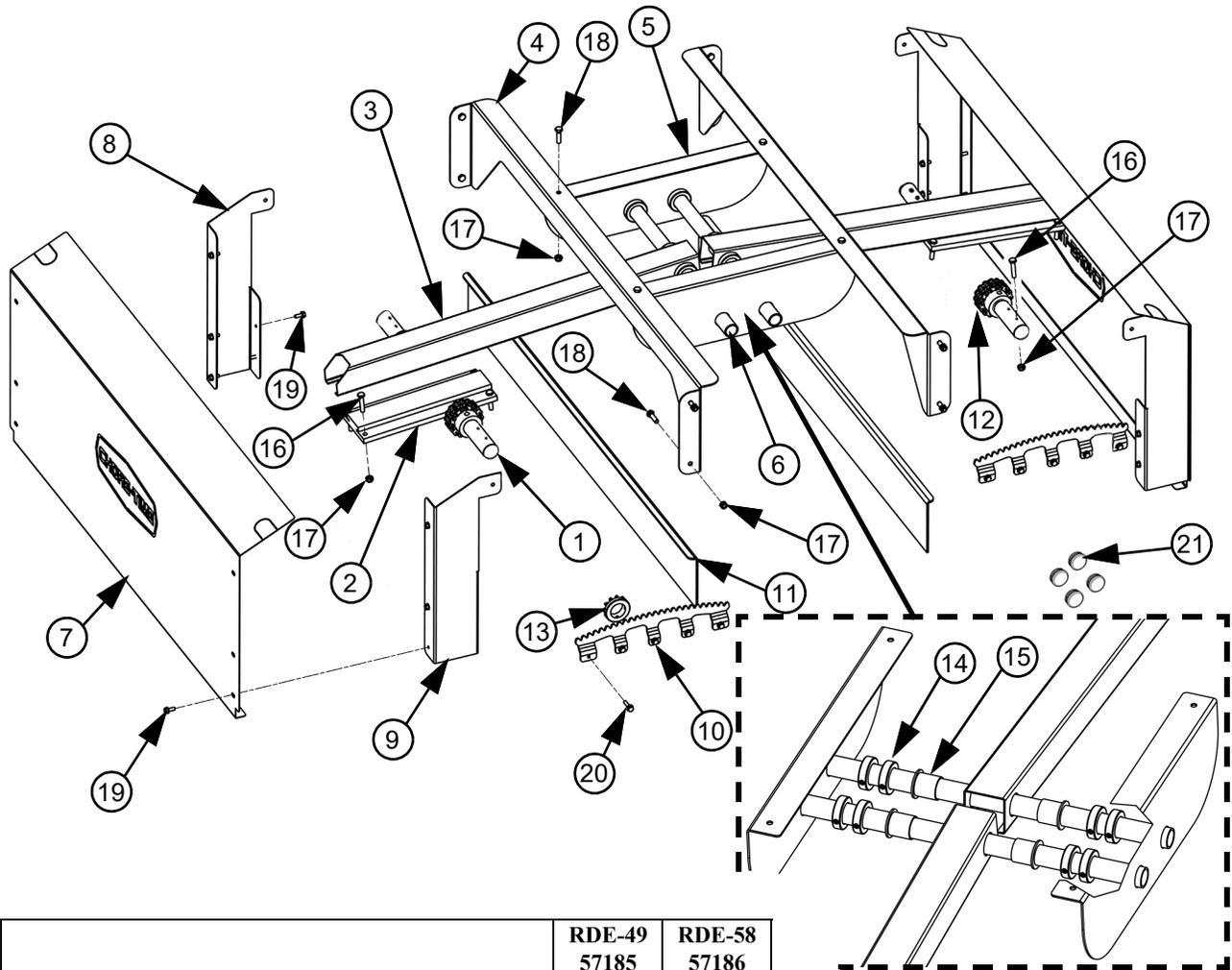
		RDE-49 57185	RDE-58 57186
Item	**Description**		
1	Expulsion Shaft Coupling	603140	603140
2	Motor Mounting Plate	600631	600631
3	2 x 250MM Expeller Mounting Profile	600630	600646
4	Expeller Mount Cross	57187	57187
5	Expeller Tube Support	57188	57188
6	500 MM RDE Mounting Profile Expeller Pipe	600638	600638
7	RDE Front Expulsion Cover	57212	57212
8	RDE Cover Side Brace (Left)	57213-2	57213-2
9	RDE Cover Side Brace (Right)	57213-1	57213-1
10	RDE Rack Plate	56680	56993
11	Egg Expulsion Plate	57206	57206
12*	Chain Coupling	603113	603113
13*	Toothed Single Sided Wheel	600622	600622
14*	32 mm DIN 705A Set Collar	201140	201140
15*	34.2x30.1x35mm Flanged Sleeve Bearing	201139	201139
16*	M8 X 40 DIN933 Hex Bolt	201006	201006
17*	M8 DIN985 Lock Nut	201003	201003
18*	M8 x 30 DIN933 Bolt	201007	201007
19*	M6x16 DIN7500D Taptite	201077	201077
20*	M6 x 25 DIN7500-D Taptite	201067	201067
21*	33.4mm Round Tube Plug	201038	201038
*Included in 57891 Hardware Package.			
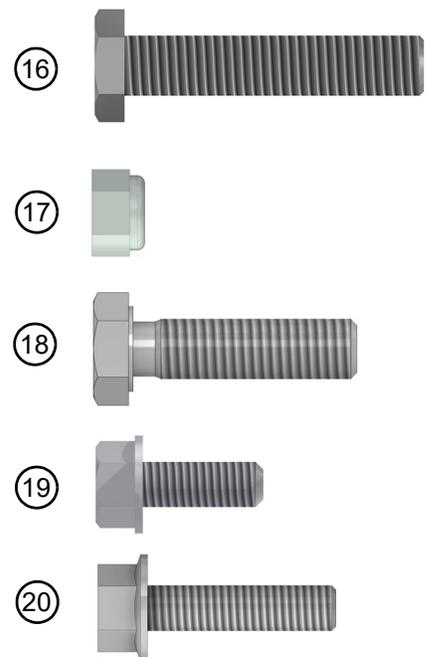
Leg & Rail Kits Regular Duty (57823-X), & Heavy Duty (57826-X)
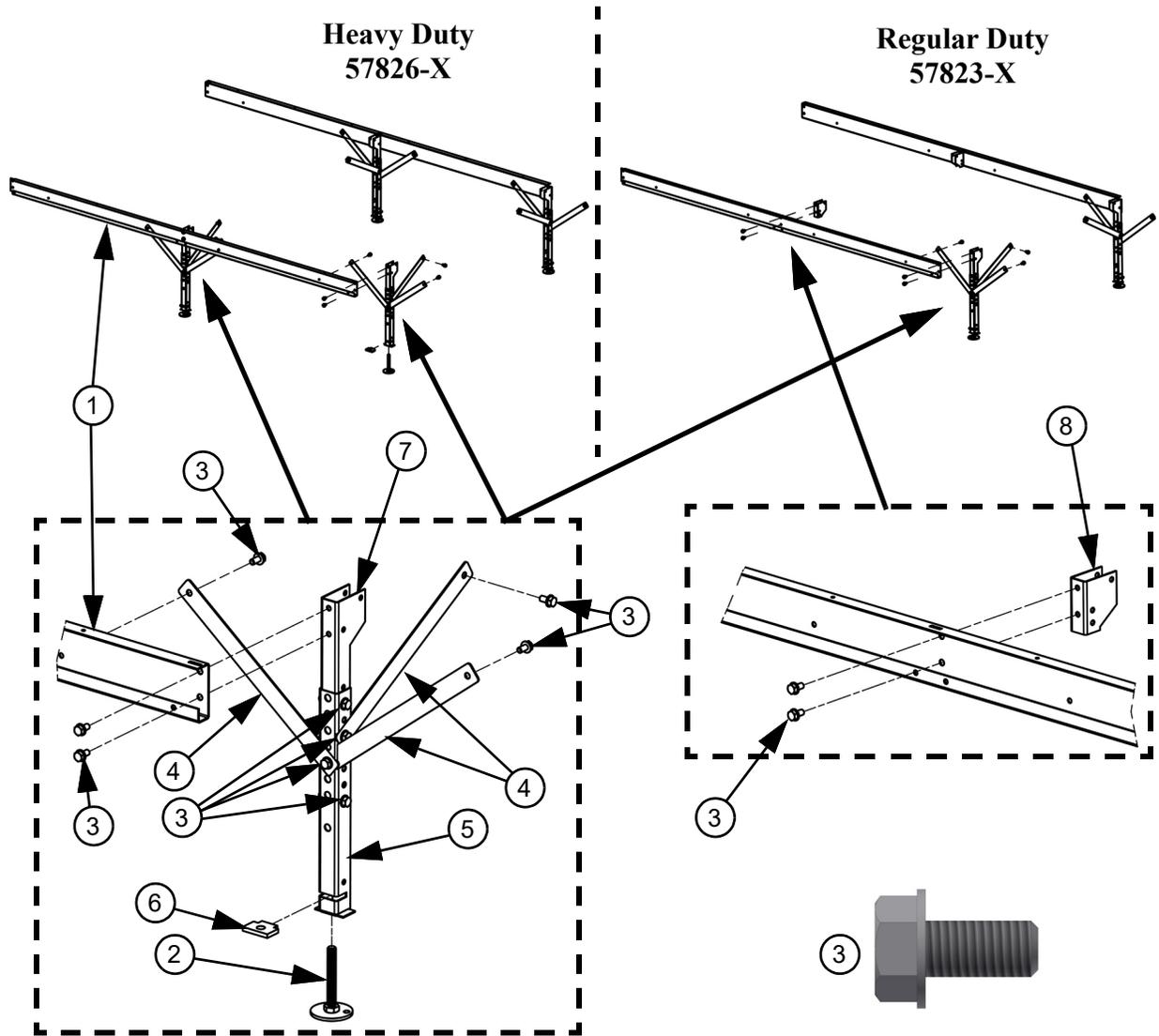
		Regular Duty					Heavy Duty				
		57823-1	57823-2	57823-3	57823-4	57823-5	57826-1	57826-2	57826-3	57826-4	57826-5
Item	Description	Part No.									
1	Nest Front Rail	57316	57316	57316	57316	57316	57316	57316	57316	57316	57316
2	Leveling Foot Weldment	57320	57320	57320	57320	57320	57320	57320	57320	57320	57320
3	M8 x 16 Taptite	201047	201047	201047	201047	201047	201047	201047	201047	201047	201047
4	Strut Strip	600734	600734	600734	600734	600734	600734	600734	600734	600734	600734
5	Leveling Leg	56674	56674	56674	--	--	56674	56674	56674	--	--
	Short Leveling Leg	--	--	--	58144	--	--	--	--	58144	--
	Extra Short Leveling Leg	--	--	--	--	58496	--	--	--	--	58496
6	M12 Leveling Plate	56997	56997	56997	56997	56997	56997	56997	56997	56997	56997
7	Nest Leg (15.75" [400mm])	57315-1	--	--	--	--	57315-1	--	--	--	--
	Nest Leg (24.6") [625mm])	--	57315-2	----			--	57315-2	--	--	--
	Nest Leg (33.5" [850mm])	--	--	57315-3			--	--	57315-3	--	--
	Short Nest Leg	--	--	--	58143		--	--	--	58143	--
	Extra Short Nest Leg	--	--	--	--	58495	--	--	--	--	58495
8	Nest Leg (3.15 [80mm])	57315-4	57315-4	57315-4	57315-4	57315-4	--	--	--	--	--

Fixed Balcony Kits

2.4m Fixed Balcony (58007)
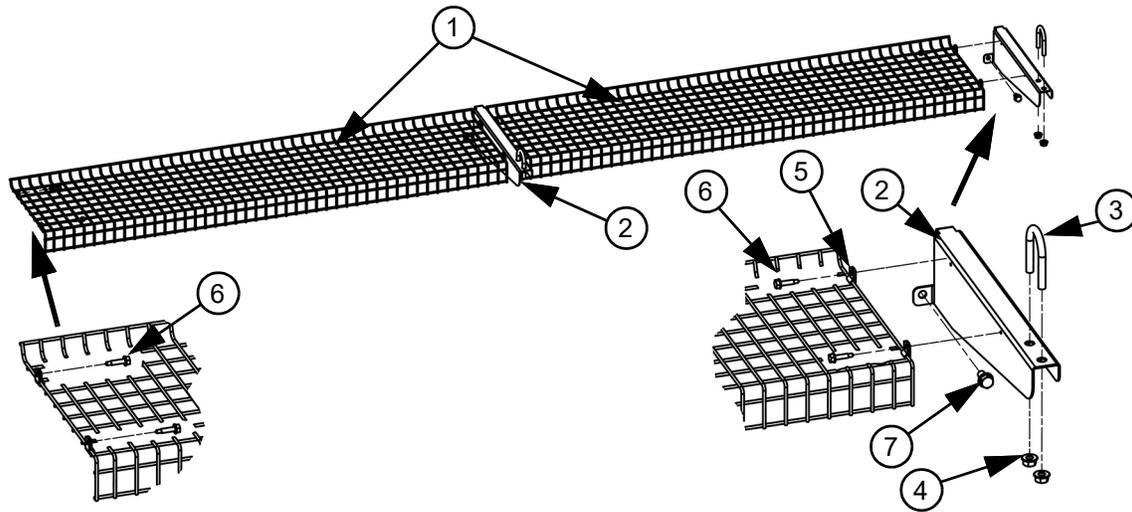
Item	Description	58007 Part No.
1	Approach	57002
2	Valego Balcony Arm	58009
3	M8-1.25 x 1.676 U Bolt	201048
4	M8-1.25 DIN 6923 Flange Nut	201001
5	3/16" Loop Clamp	57001
6	M6 4.8 x 19 HXWH Ser. Screw	201059
7	M8 x 16 Taptite	201047
8	Valego Balcony Bracket	--

1.2m Fixed Balcony (58007-2)
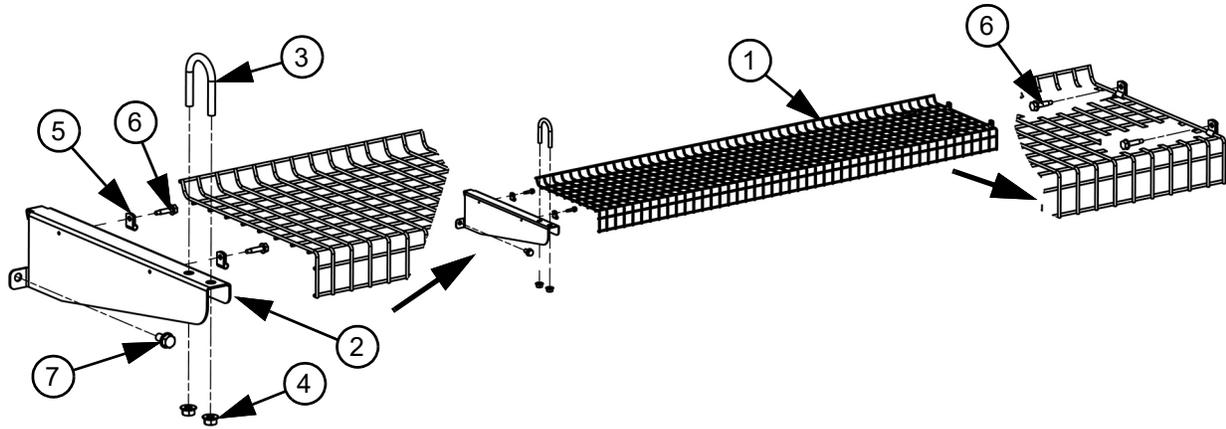
Item	Description	58007-2 Part No.
1	Approach	57002
2	Valego Balcony Arm	58009
3	M8-1.25 x 1.676 U Bolt	201048
4	M8-1.25 DIN 6923 Flange Nut	201001
5	3/16" Loop Clamp	57001
6	M6 4.8 x 19 HXWH Ser. Screw	201059
7	M8 x 16 Taptite	201047

Balcony Start (58007-1)
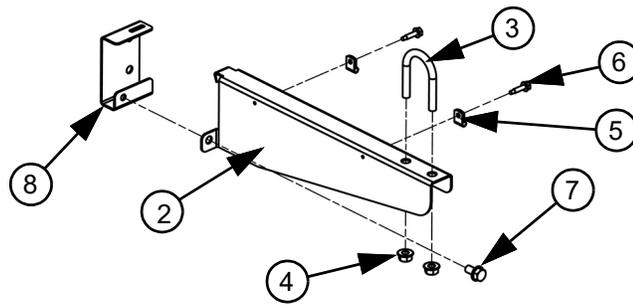
58007-1

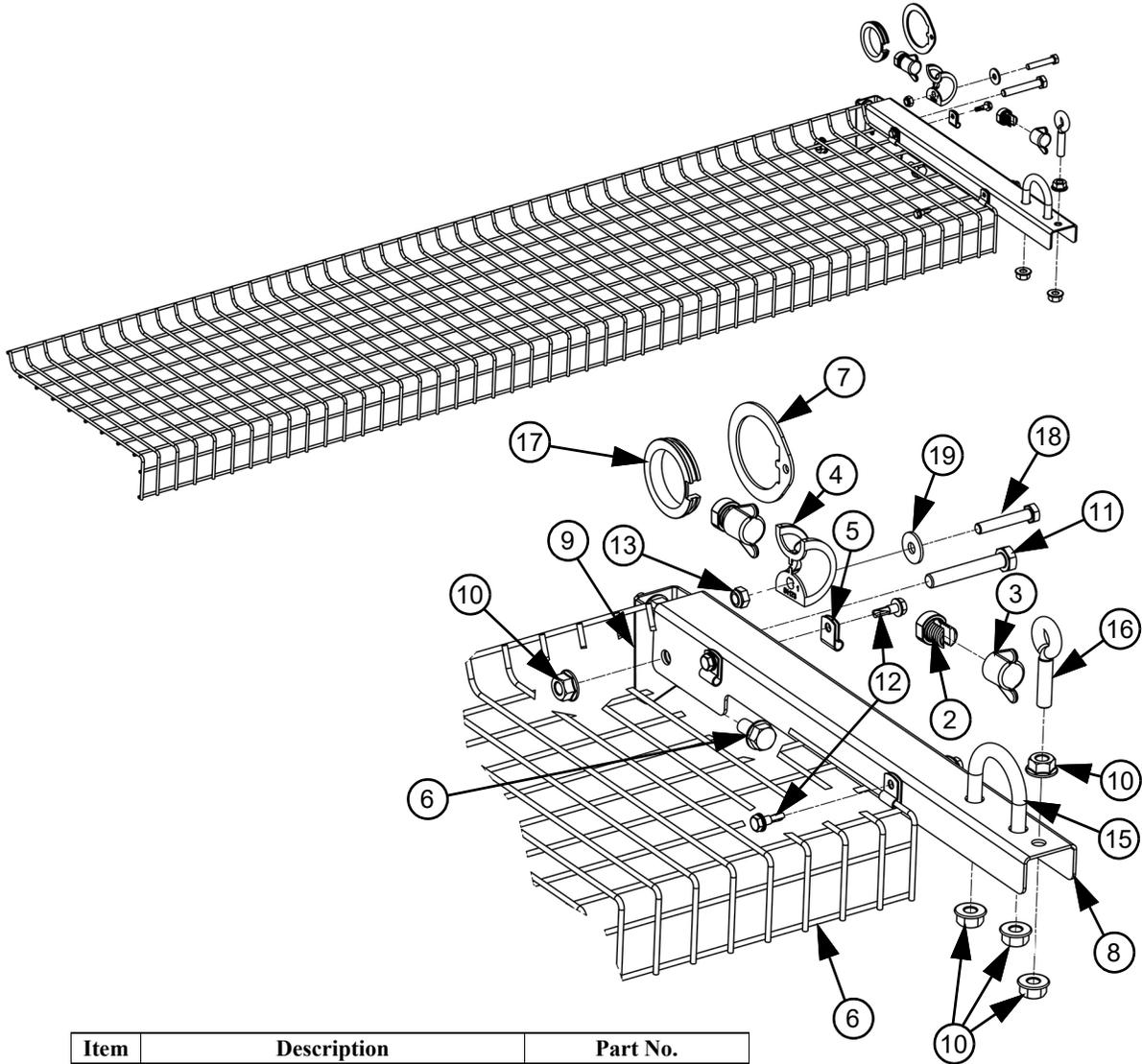| Item	Description	58007-1
2	Valego Balcony Arm	58009
3	M8-1.25 x 1.676 U Bolt	201048
4	M8-1.25 DIN 6923 Flange Nut	201001
5	3/16" Loop Clamp	57001
6	M6 4.8 x 19 HXWH Ser. Screw	201059
7	M8 x 16 Taptite	201047
8	Valego Balcony Bracket	58207

Folding Balcony Kits
2.4M Foldable Balcony Kit (58307)

|		58307
Item	**Description**	**Part No.**
1	3/16 Nylon Braid Rope (Not Shown)	5-37173
2	.500-13UNCX Split Bolt	40787
3	Split Bolt Cap	40788
4	Rope Guide	51173
5	3/16" Loop Clamp	57001
6	Nest Approach	57002
7	Expulsion Bracket	58296
8	FP Balcony Bracket	58297
9	Pivot Bracket	58298
10	M8-1.25 DIN 6923 Flange Nut	201001
11	M8 X 40 DIN933 Hex Bolt	201006
12	4.8 x 16mm DIN7504K HXWH Screw	201028
13	M6 DIN985 Lock Nut	201037
14	M8 x 16 Taptite	201047
15	M8-1.25 x 1.676 U Bolt	201048
16	M8 x 30 Eye Bolt	201084
17	33.5 mm Plastic Bearing	201089
18	M6 x 35 DIN 931 Hex Bolt	201179
19	M6 DIN 9021 Washer	BEV 049021EV06

Balcony Start Kit (58307-1)
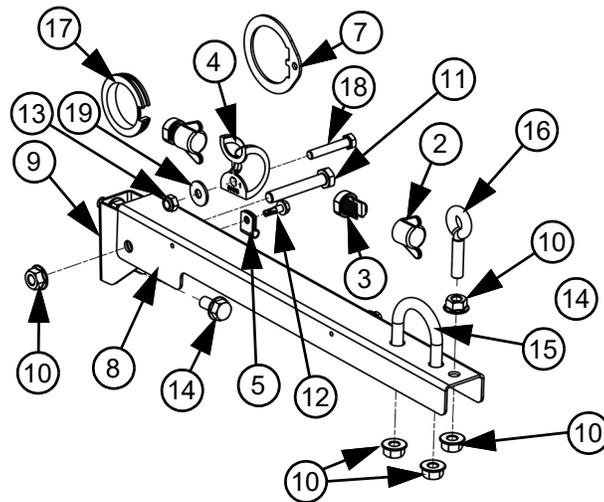
| Item	Description	58307-1
1	3/16 Nylon Braid Rope (Not Shown)	5-37173
2	.500-13UNCX Split Bolt	40787
3	Split Bolt Cap	40788
4	Rope Guide	51173
5	3/16" Loop Clamp	57001
7	Expulsion Bracket	58296
8	FP Balcony Bracket	58297
9	Pivot Bracket	58298
10	M8-1.25 DIN 6923 Flange Nut	201001
11	M8 X 40 DIN933 Hex Bolt	201006
12	4.8 x 16mm DIN7504K HXWH Screw	201028
13	M6 DIN985 Lock Nut	201037
14	M8 x 16 Taptite	201047
15	M8-1.25 x 1.676 U Bolt	201048
16	M8 x 30 Eye Bolt	201084
17	33.5 mm Plastic Bearing	201089
18	M6 x 35 DIN 931 Hex Bolt	201179
19	M6 DIN 9021 Washer	BEV 049021EV06

1.2m Folding Balcony Kit (58307-2)

Item	Description	Part No.
1	3/16 Nylon Braid Rope (Not Shown)	5-37173
2	.500-13UNCX Split Bolt	40787
3	Split Bolt Cap	40788
4	Rope Guide	51173
5	3/16" Loop Clamp	57001
6	Nest Approach	57002
7	Expulsion Bracket	58296
8	FP Balcony Bracket	58297
9	Pivot Bracket	58298
10	M8-1.25 DIN 6923 Flange Nut	201001
11	M8 X 40 DIN933 Hex Bolt	201006
12	4.8 x 16mm DIN7504K HXWH Screw	201028
13	M6 DIN985 Lock Nut	201037
14	M8 x 16 Taptite	201047
15	M8-1.25 x 1.676 U Bolt	201048
16	M8 x 30 Eye Bolt	201084
17	33.5 mm Plastic Bearing	201089
18	M6 DIN 9021 Washer	201179
19	M6 4.8 x 19 HXWH Ser. Screw	BEV 049021EV06

ME2531B

Miscellaneous Parts
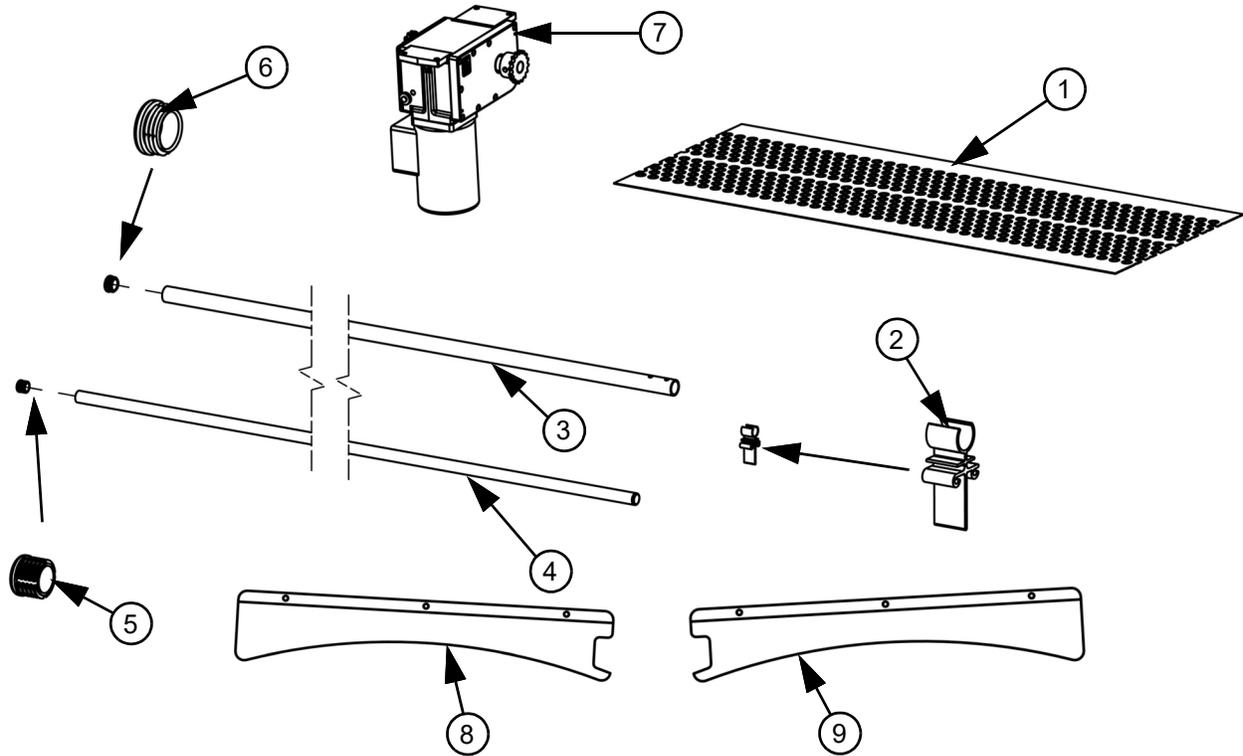
Item	Description	Part No.
1	Egg Belt [500 mm]	600512-X
	Egg Belt [250 mm]	600501-X
2	Egg Belt Dividers	57441
3	Expulsion Shaft	208050
4	25 mm Floor Support Tube	208040
5	25 mm Round Plastic Cap	201080
6	33.4 mm Tube Plug	201038
7	50 Hz Motor (EU)	603104
	60 Hz Motor (US)	603119
8	RDE Tube Hold Down (Right)	57835-2
9	RDE Tube Hold Down (Left)	57835-1

CHORE-TIME
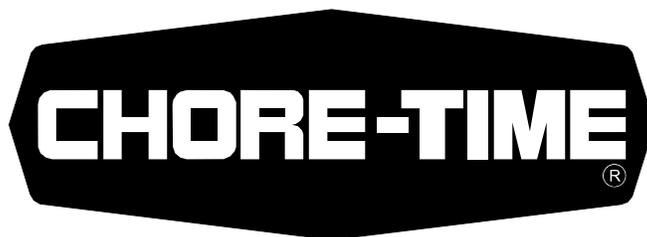
MADE TO WORK.
BUILT TO LAST.[®]

Revisions to this Manual+

Page No.	Description of Change	ECO
23	58014 was 57911 and 57640 was 57949	
24	57321 was 58068	41011
34,35	Added Center of Systems over 50 sections instructions	
42	57329 was 56853 and balloon item 4 was 3.	
73	Added RDE Hold downs to Misc. Parts	

For additional parts and information, contact your nearest Chore-Time distributor or representative.
Find your nearest distributor at: www.choretime.com/contacts