



Screw Conveyor Assembly Guide

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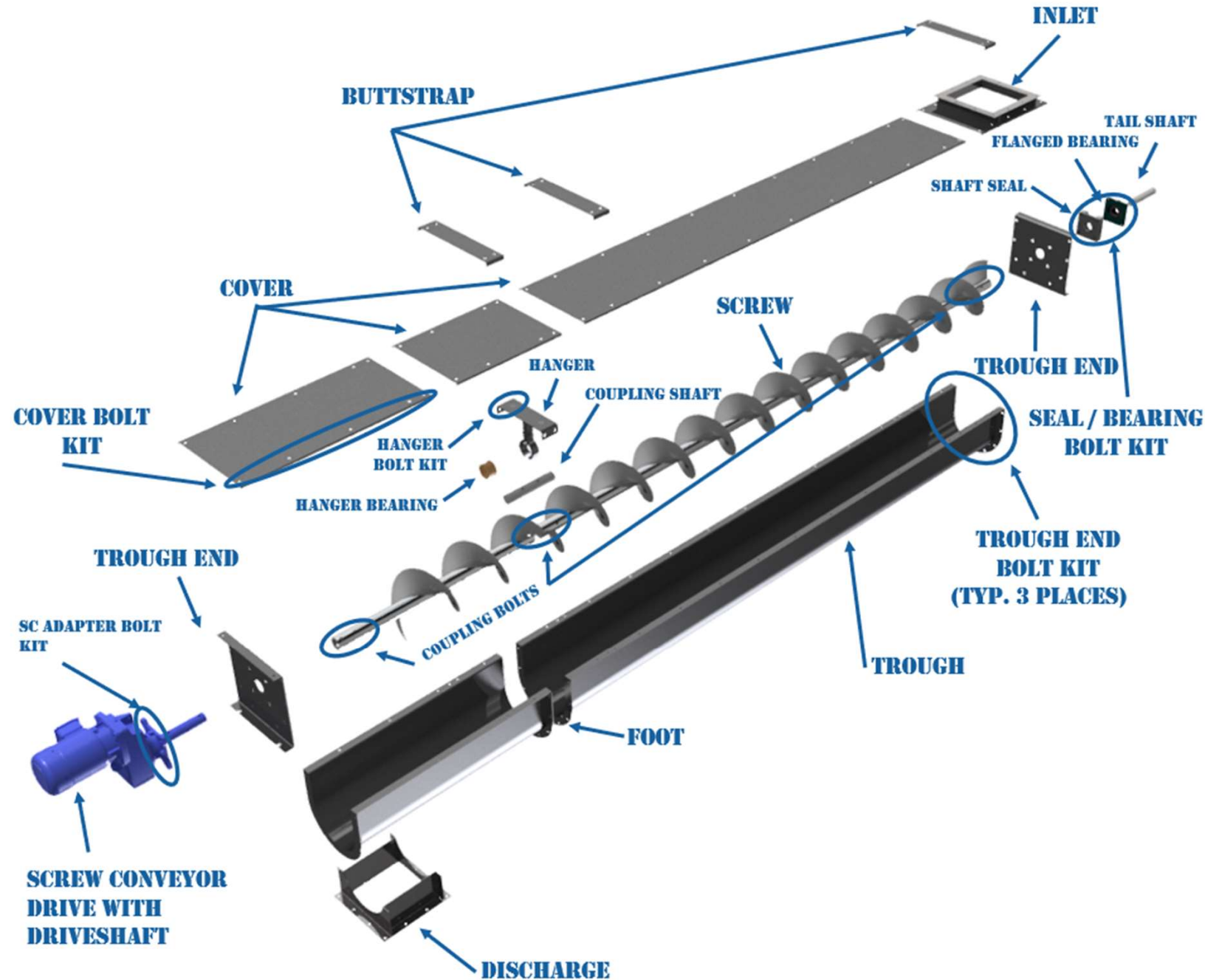


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Exploded View



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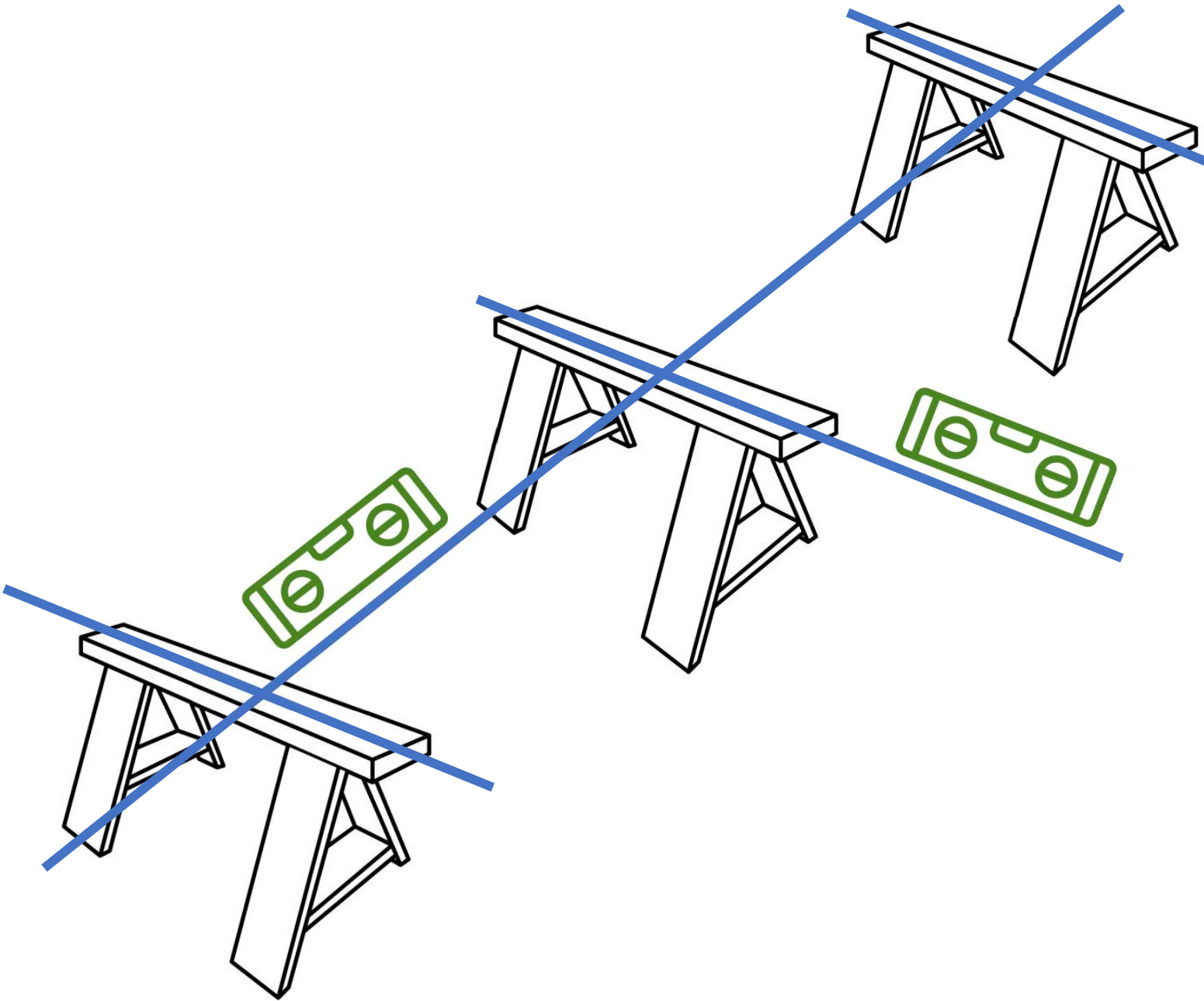
Bill of Materials

Part Number	Part	Description
9112xxx	Screw	Screw, XX" Diameter, XX" Shaft Size, XX-Bolt...
9100xxx	Trough	Trough, U-Trough, XX" Diameter, XX Thk.
8109xxx	Trough End Bolt Kit	Bolt Kit, Trough End, U-Trough, XX" Diameter
7104xxx	Cover Gasket (Not Pictured)	Gasket, U-Trough, XXft LG Cover, XX" Diameter
9103xxx	Cover	Cover, Formed Flange, U-Trough, XX" Diameter...
9103xxx	Buttstrap	Cover, Buttstrap, U-Trough, XX" Diameter...
8109xxx	Cover Bolt Kit	Bolt Kit, Cover, XX ft LG on 12in Centers
9101xxx	Trough End	Trough End, With Foot, U-Trough, XX Diameter...
9109xxx	Foot	Foot, XX Diameter
9107xxx	Inlet	Inlet, Square, XX Diameter
9108xxx	Discharge	Discharge, Square, XX Diameter
9113xxx	Coupling Bolts	Coupling Bolts, XX Shaft Size...
9104xxx	Hanger	Hanger, U-Trough, Style 2XX, XX Diameter, XX Shaft Size
8109xxx	Hanger Bolt Kit	Bolt Kit, Screw Conveyor Hanger, XX in
9105xxx	Hanger Bearing	Hanger Bearing, Style 2XX, XX Shaft Size, UHMW
9102xxx	Coupling Shaft	Shaft, Coupling, XX Shaft Size, XX-Bolt,
9102xxx	Tail Shaft	Shaft, Tail, XX Shaft Size, 2-Bolt,
9111xxx	Shaft Seal	Shaft Seal, XXX, XX Shaft Size
7102xxx	Flanged Bearing	Bearing, XX Shaft Size, Flanged Ball Bearing
8109xxx	Seal / Bearing Bolt Kit	Bolt Kit, Waste Pack Seal, Flanged Ball Bearing, XX Shaft Size
8109xxx	SC Adapter Bolt Kit	Bolt Kit, Screw Conveyor Adapter, XX Shaft Size
7104xxx	Trough End Gasket (Not Pictured)	Gasket, Trough Flange and Shaft Seal, Silicone

Typical BOM, actual may vary.



Align Base



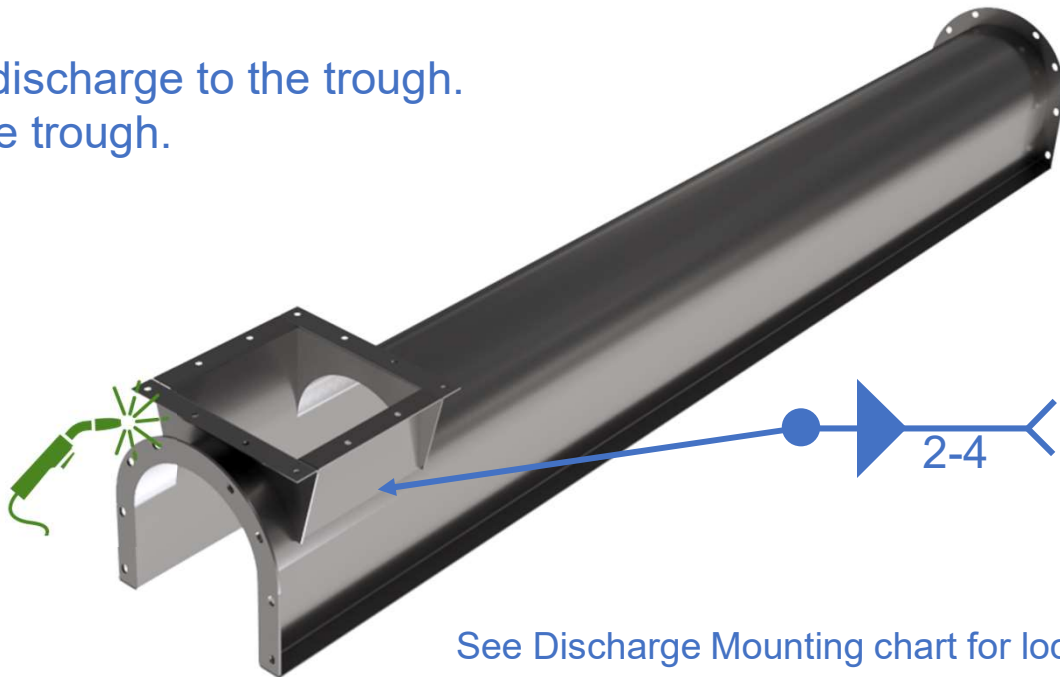
Ensure assembly base is level, flat and spaced no more than 12ft apart



Before Assembly

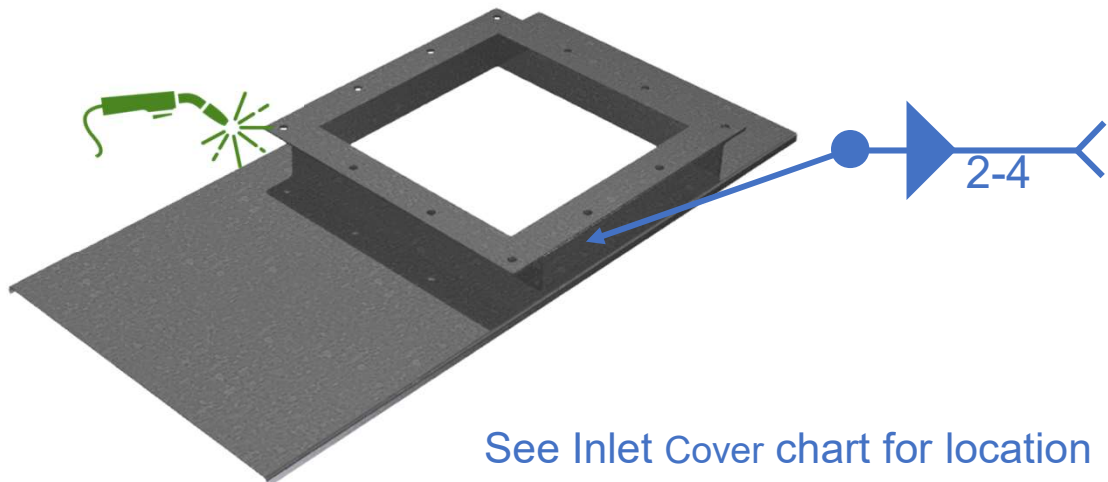
Mount saddles as req'd

Weld the discharge to the trough.
Cut out the trough.



See Discharge Mounting chart for location

Weld the inlet to the cover.
Cut out the cover.*



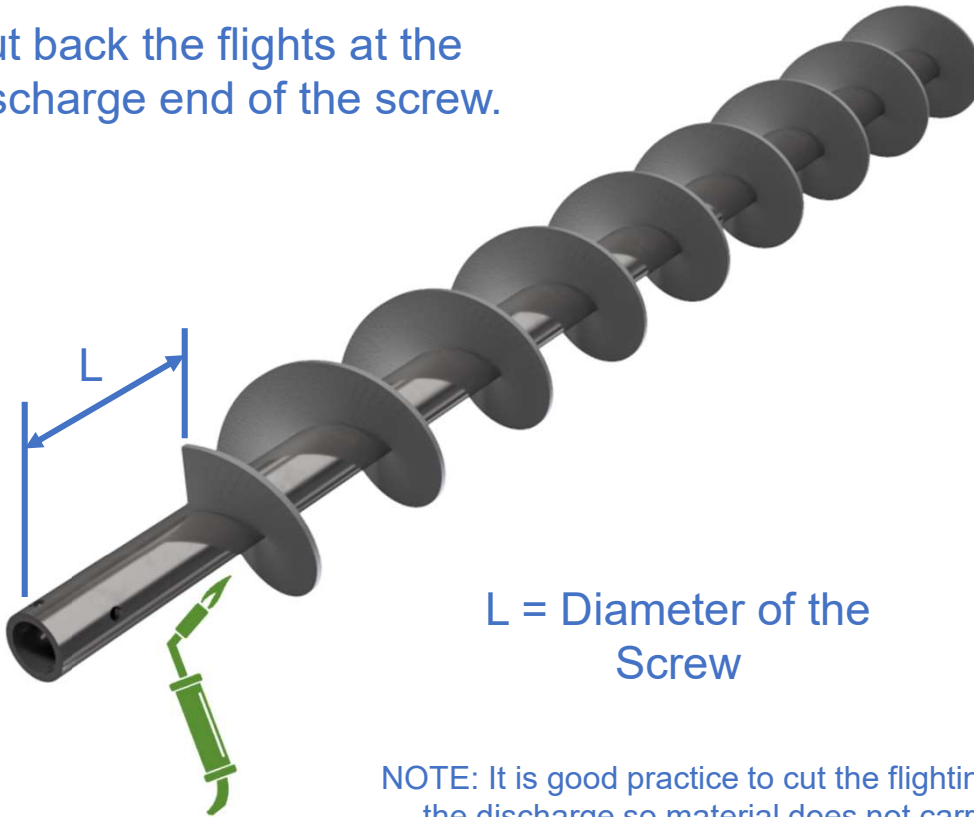
See Inlet Cover chart for location

NOTE: It is good practice to mount the inlet on its own cover so the conveyor can be maintained without removing the inlet.



Before Assembly

Cut back the flights at the discharge end of the screw.



$L = \text{Diameter of the Screw}$

NOTE: It is good practice to cut the flighting back at the discharge so material does not carry over.



Trough Assembly

Use a string line with spacers to ensure the trough is straight and flat.

+/- 1/8"

+/- 1/8"

Adjust flange or shim as req'd. to straighten trough.

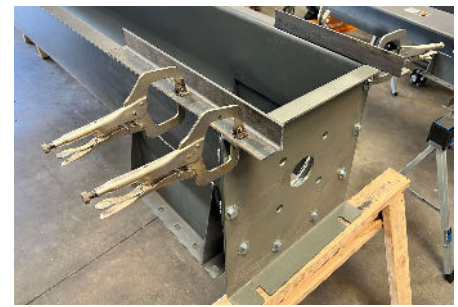
Torque all bolts.

Use silicone calk as a gasket at each flange.

It is good practice to orient the foot away from the drive end.

Drive end trough end.*

Using scrap angle and clamps ensures the trough end and trough flanges are aligned.



NOTE: It is good practice to put the drive on the discharge end to keep the screw in tension



Screw Assembly

3. Install the coupling shaft (if req'd) using the included coupling bolts**

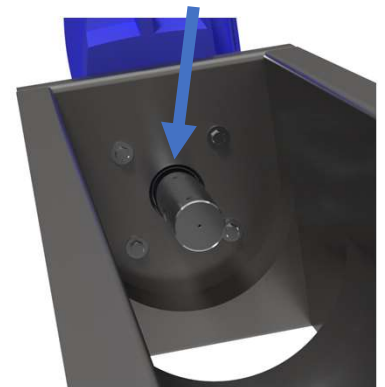
2. Install the drive end screw using the included coupling bolts**

1. Install drive first using the drive assembly bolts*

Torque all bolts.

**It is good practice is to use anti-seize on the shafts.

*Ensure the shaft is centered in the trough end hole.



NOTE: If no hanger or additional screws are required skip ahead 2 pages



Hanger Assembly



Install the Hanger and hanger bearing.

Hanger

Hanger Bearing

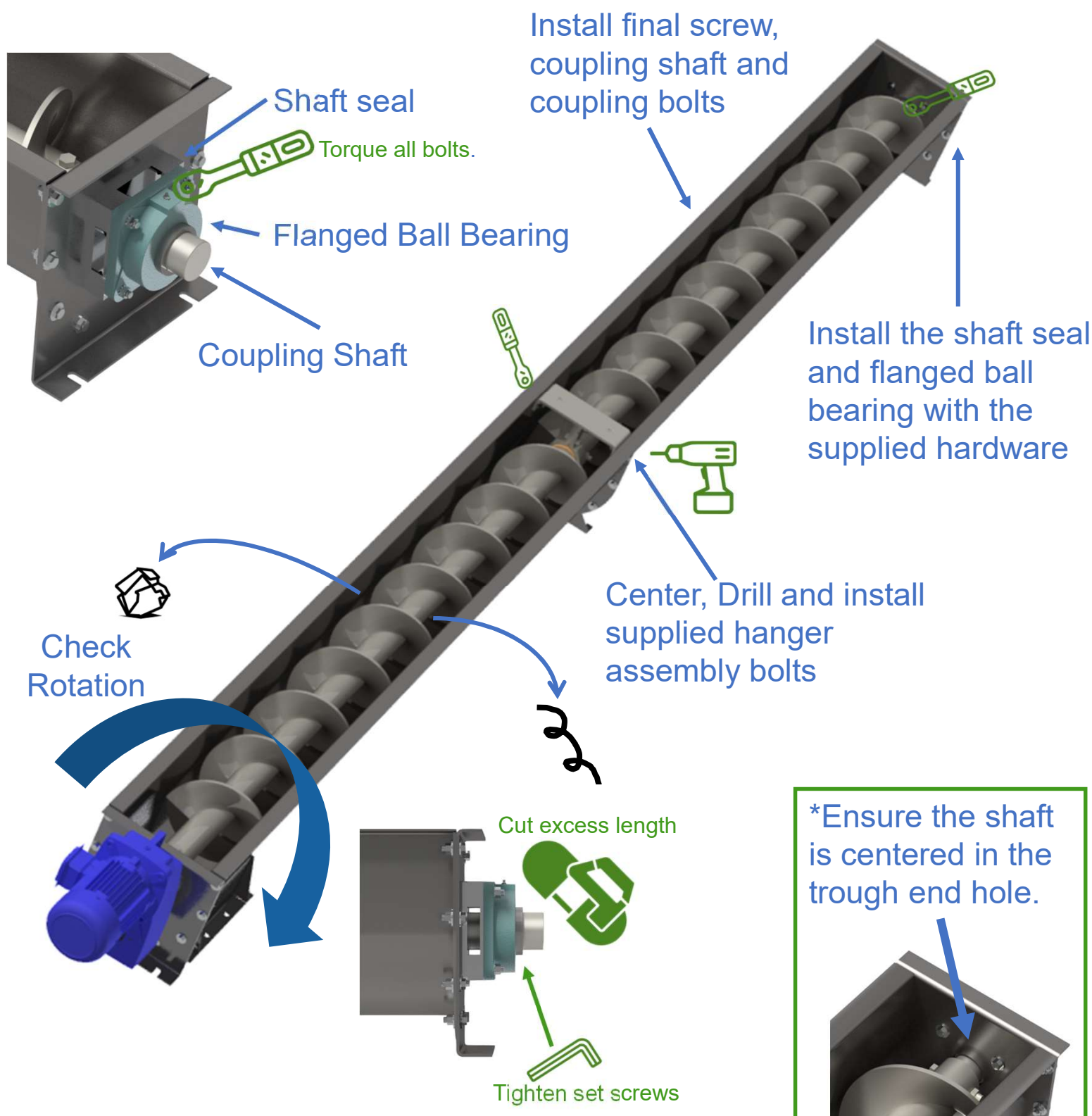
DO NOT drill the holes to mount the hanger to the trough at this step.

Using scrap angle and clamps ensures the hanger is properly aligned





Tail End Assembly



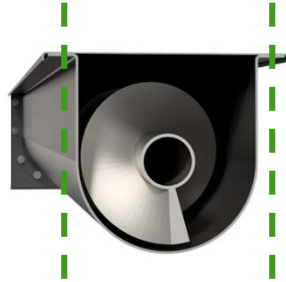
*Ensure the shaft is centered in the trough end hole.

NOTE: This is a good time to clean out any debris or trash out of the conveyor and check motor rotation prior to putting covers on



Cover Assembly

Ensure holes are centered on the trough flange under the covers



Install Inlet Cover First

Grease bearing

Install hanger covers second*

Apply adhesive backed gasketing on the underside of each cover and buttstrap

Grease bearing (If req'd)

Buttstraps

Measure, cut and install intermediate covers last

Max 24" Centerline.

7/16" Dia.

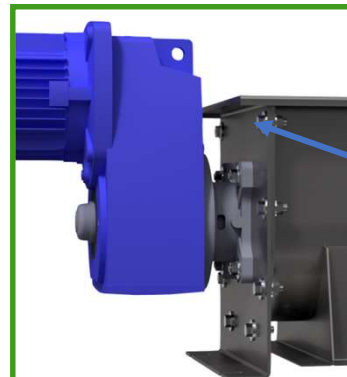
Tighten all bolts.

*It is good practice to put a 24" long cover over each hanger bearing for easy access. Additional buttstraps might be required.

Check oil level in gear reducer



Ensure enough cover length to overlap the trough end flanges



NOTE: It is good practice to allow 1/8" gap between each cover

NOTE: See motor O&M for wiring details prior to wiring the motor



Safety Decals

CFMA No.: 352-2018

CEMA Safety Labels **Placement Guidelines**

Product: Bulk Handling Equipment

Equipment: Screw Conveyor - SC-2

TOP VIEW

SIDE VIEW

"B"

"A"

"C"

USE LABEL "A" ON BELT GUARD
 USE LABEL "B" ON ENDS OF TROUGH, MIDDLE OF COVERS AND AT INLET OPENING.
 USE LABEL "C" ON TOP OF COVERS

SC-2



Apply safety decals per the CEMA std.





Assembled Conveyor

Please note this assembly guide is not intended to replace the operations and maintenance manual (O&M). It is intended to provide direction on assembly of a typical Screw Conveyor Parts screw conveyor kit

O&M Manual Download

Nord Drive

<https://www.screwconveyorparts.com/catalogs/scp-om-manual-nord-drive/>

Modular Dodge Drive

<https://www.screwconveyorparts.com/catalogs/scp-om-manual-dodge-drive/>

For Technical Assistance or Replacement Parts, Contact:

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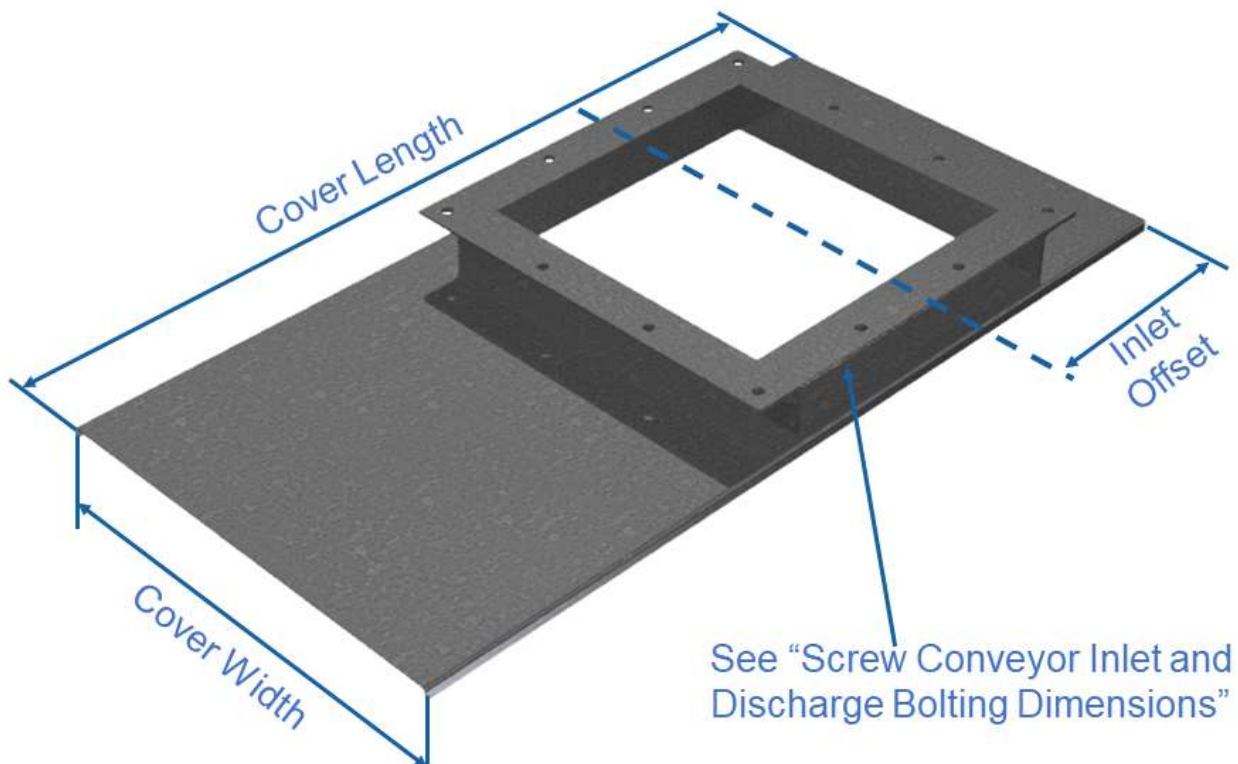
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Screw Conveyor Inlet Cover Dimensions

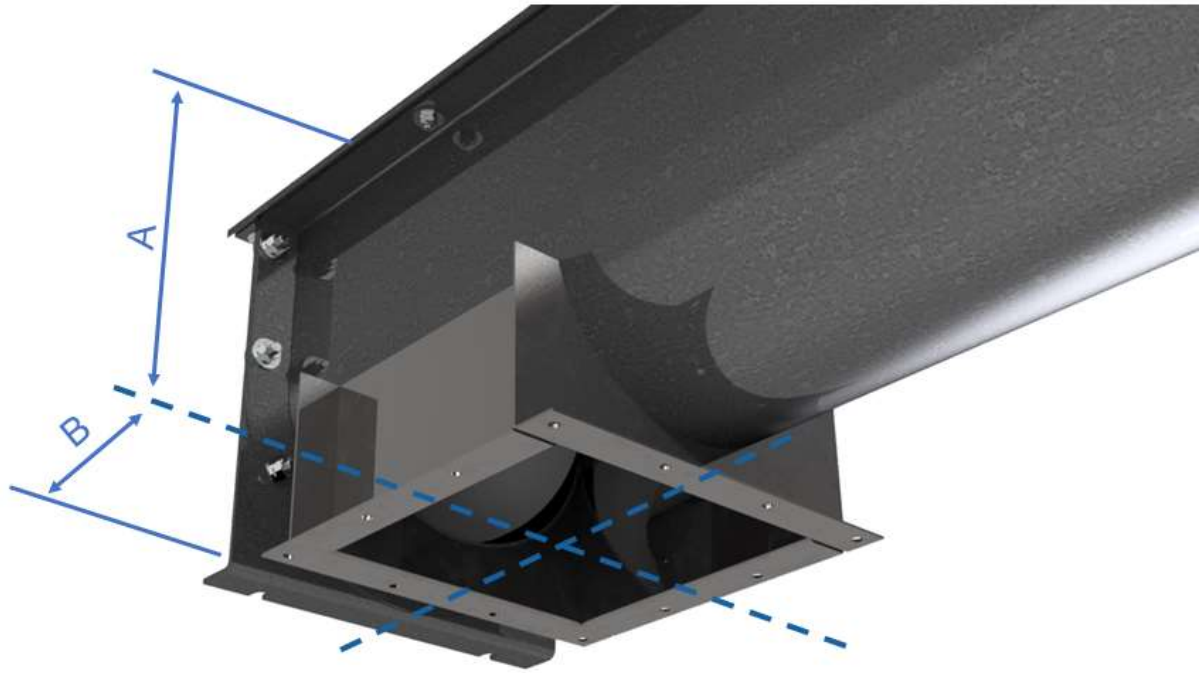
Screw Dia.	Cover Length	Cover Thickness	Cover Width	Inlet Offset	Part Number
6 in	30 in	10GA	10 in	7 1/2 in	8107100
9 in	30 in	10GA	13 1/2 in	9 5/8 in	8107101
12 in	30 in	10GA	17 1/2 in	12 1/2 in	8107103
14 in	30 in	10GA	19 1/2 in	13 1/2 in	8107104
16 in	30 in	10GA	21 1/2 in	16 in	8107105
18 in	30 in	10GA	24 1/2 in	17 in	8107106
20 in	36 in	10GA	26 1/2 in	18 in	8107107
24 in	36 in	10GA	30 1/2 in	20 in	8107108



See "Screw Conveyor Inlet and Discharge Bolting Dimensions"



Discharge Mounting Position



Screw Dia.	A Discharge Drop from Top Flange	B Discharge Offset
6"	9 1/2"	6"
9"	13 1/4"	8"
12"	16 5/8"	10 1/2"
14"	19 3/8"	11 1/2"
16"	21 3/4"	13 1/2"