



Industrial Conveyor Specialists

**Installation, Maintenance & Parts Manual
For**

**MODEL 105
Roller Bed Belt Conveyor**

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Serial No.

I. RECEIVING

Check the unit(s) over carefully upon arrival for damage. If you find any damage note it on the bill of lading. **YOU MUST** also file a claim **IMMEDIATELY** with the carrier.

II. INSTALLATION

- ✓ WEAR SAFETY GLASSES, SAFETY SHOES, AND GLOVES.
- ✓ HAVE AREA AROUND INSTALLATION SITE CLEARED OF DEBRIS.
- ✓ LOCKOUT POWER TO CONVEYOR(S) UNTIL START-UP.
- ✓ LOOK OUT FOR SHARP EDGES WHILE HANDLING CONVEYOR COMPONENTS.
- ✓ BE CAREFUL IN AND AROUND THE CONVEYOR(S) DURING INSTALLATION. ALSO, BE AWARE OF OTHERS IN THE AREA.
- ✓ ONLY ALLOW QUALIFIED PERSONNEL TO ASSEMBLE AND INSTALL CONVEYORS.

SUPPORT ASSEMBLY

FIGURE 1

- ✓ **MOTOR** Have a qualified electrician ensure the motor is wired correctly for your power source. Check that motor is securely fastened to the reducer or motorbase.
- ✓ **REDUCER** Check that the proper amount of oil is in the reducer.* ***Make sure a vent plug is installed on the reducer.**** (A solid plug is usually installed for shipping.) See FIGURE 10.
- ✓ **BEARINGS** Double check that bearings are fastened securely. Be sure that locking collars are tightened and set screws are secured firmly to the shaft.
- ✓ **GENERAL** Check that sprockets with chain and/or sheaves with V-belt are aligned and properly tensioned.*

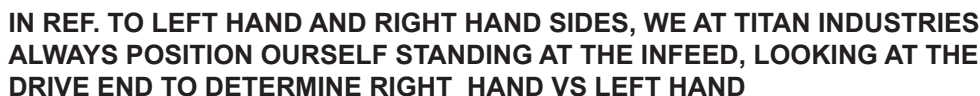
BELT INSTALLATION

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- A diagram showing a 90-degree angle. The vertex is at the bottom right. One ray extends horizontally to the left, and the other extends vertically upwards. The text "90°" is placed to the right of the vertex. A rectangular box labeled "YES" is positioned above the horizontal ray. A trapezoidal box labeled "NO" is positioned below the horizontal ray.

3. With typical belt threading arrangement shown on page 8 **FIGURE 6** of this manual, install the belt on the conveyor. Interlock the laced ends squarely, and push the connector pin thru the lacing. If a metal connector pin is used, center the pin and bend the ends over slightly to keep the pin from working out. See **FIGURE 5**



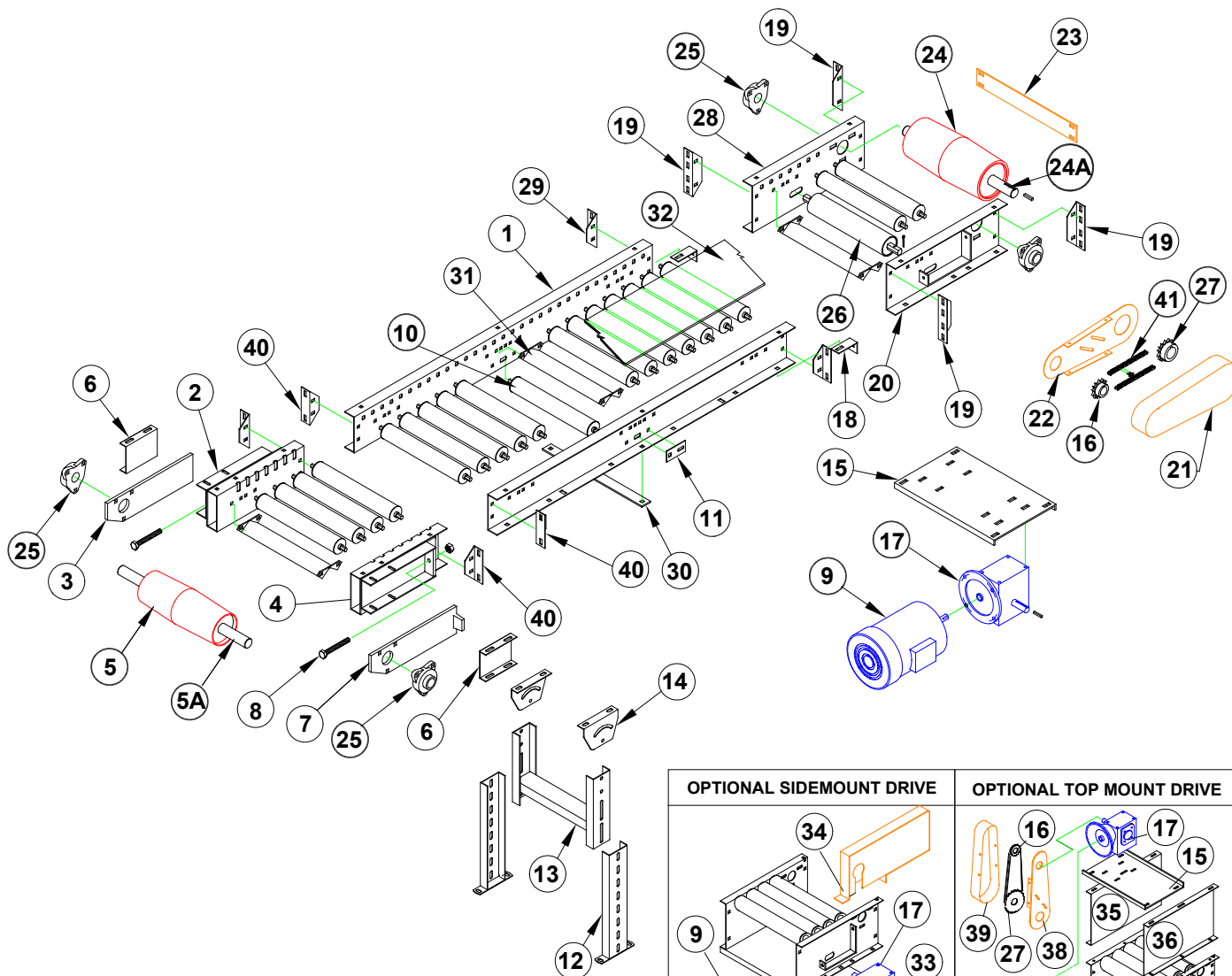
1. The first step in belt tracking is to make sure all pulleys are parallel with each other and perpendicular to the frame. Once this has been done refer to **FIGURE 7** for proper tracking adjustments on end drive conveyors or **FIGURE 8** for proper tracking on center drive and take-up conveyors.



1. **ASSEMBLE / DISASSEMBLE MOTOR TO REDUCER** - Because many of today's motor keyways are cut with a sidemill cutter, the following assembly instructions should be followed to insure a trouble-free fit between motor and reducer. First, place the key into the reducer keyway. Second, line up the motor keyseat with the key and push the motor shaft into the reducer bore. Third, finish assembly by bolting the motor to the reducer flange. This procedure should insure that the key does not slide back in the motor keyseat. See **FIGURE 9**.



- WHERE HIGH TEMPERATURES AND/OR DIRTY ATMOSPHERE EXISTS MORE FREQUENT CHANGES MAY BE NECESSARY. PERIODICALLY CHECK REDUCER TO ENSURE THAT THE PROPER LEVEL OF OIL IS IN THE REDUCER. TOO LITTLE OIL WILL CAUSE ACCELERATED WEAR ON THE GEARS. TOO MUCH OIL CAN CAUSE OVERHEATING, SEAL DETERIORATION, AND LEAKAGE.**

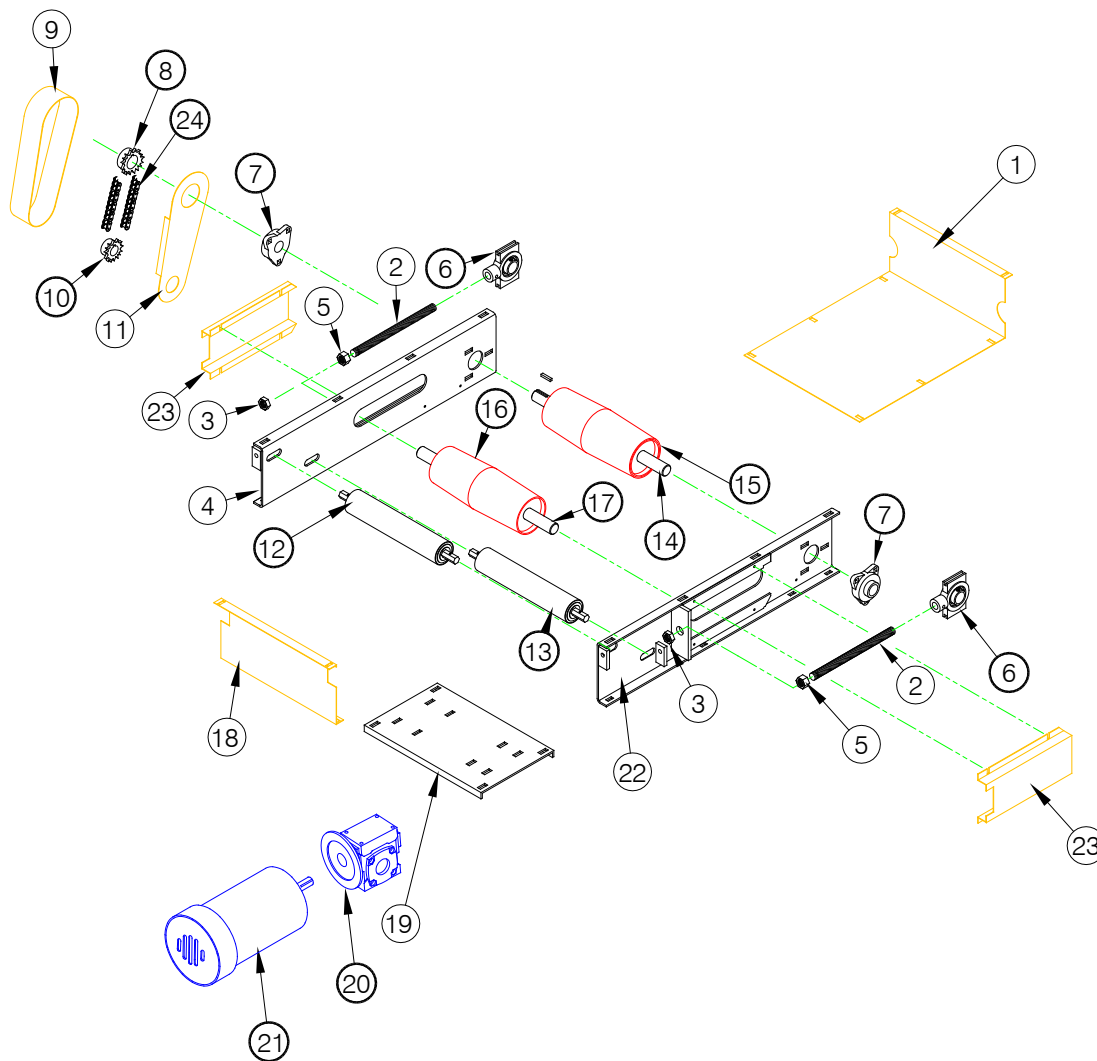


1. INTERMEDIATE FRAME
2. INFEED FRAME L/H
3. TAKE UP BAR L/H
4. INFEED FRAME R/H
5. **•TAIL PULLEY**
- 5A. **•TAIL PULLEY SHAFT**
6. RETAINER CHANNEL
7. TAKE UP BAR R/H
8. TAKE UP BOLT
9. **• MOTOR**
10. **• RETURN ROLLER**
11. RETURN ROLLER BRACKET
12. LOWER SUPPORT
13. UPPER SUPPORT
14. SMILE BRACKET

- 15. MOTOR BASE
- 16. • **DRIVE SPROCKET**
- 17. • **REDUCER**
- 18. HEAD SECTION SPLICE ANGLE
- 19. CONNECTOR BRACKET DRIVE
- 20. HEAD PLATE R/H
- 21. GUARD FRONT
- 22. GUARD BACK
- 23. DRIVE SPREADER
- 24. • **DRIVE PULLEY**
- 24A* **DRIVE PULLEY SHAFT**
- 25. • **3 BOLT FLANGE BEARING**
- 26. • **SNUB ROLLER**
- 27. • **DRIVEN SPROCKET**
- 28. HEAD PLATE L/H

- 29. INTER. CONNECTOR BRACKET
- 30. LOWER FRAME SPREADER
- 31. FRAME SPREADER
- 32. • **BELT**
- 33. SIDE MOUNT MOTORBASE
- 34. SIDE MOUNT DRIVEGUARD
- 35. TOP MT. DRIVE, ADAPTOR PLT. L/H
- 36. TOP MT. DRIVE, ADAPTOR PLT. R/H
- 37. LOWER GUARD TOP MT. DRIVE
- 38. GUARDBACK TOP MT. DRIVE
- 39. GUARD TOP MT. DRIVE
- 40. CONNECTING BRACKET
- 41. • **ROLLER CHAIN**

- **RECOMMENDED SPARE PARTS TO BE STOCKED AT YOUR LOCATION**



1. LARGE GUARD C.D.& T.U.
2. THREADED ROD
3. HEX JAM NUT
4. C.D.& T.U. PLATE L/H
5. HEX NUT
6. • **TAKE-UP BEARING 1 3/16" DIA.**
7. • **BEARING, 3 BOLT FLANGE**
8. • **DRIVEN SPROCKET**
9. GUARD FRONT
10. • **DRIVE SPROCKET**
11. GUARD BACK
12. • **SNUB ROLLER**
13. • **SNUB ROLLER**
14. • **DRIVE SHAFT**
15. • **DRIVE PULLEY**
16. • **TAKE-UP PULLEY**
17. • **TAKE-UP SHAFT**
18. SMALL GUARD C.D.& T.U.
19. MOTOR BASE
20. • **REDUCER**
21. • **MOTOR**
22. C.D.& T.U. PLATE R/H
23. TAKE-UP GUARD
24. • **ROLLER CHAIN**