ISHIDA OMNi-4000
Removing Infeed & Exit Conveyors

If necessary to fit through narrow doorways, items can be removed from the front of the OMNi-4000. Select the option below based on the door widths.

Standard width: 52.5"
- No disassembly

Mid-range width: 44.5"
- Remove:
  - Infeed conveyor
  - Heater conveyor front metal cover
  - Heater conveyor plastic cover

Smallest width: 35.5"
- Remove:
  - Infeed conveyor
  - Exit conveyor
  - Heater conveyor
  - Touch Screen console
  - Emergency Stop switch housing

Mid-range width
1. Remove Infeed Conveyor.
   CAUTION: Infeed Conveyor is heavy.
   a. Pull Conveyor forward to full extension.
   b. Remove connector board cover (underside, rear, left) -- 2 screws.
   c. Disconnect three cables: S16, X292, INFEED **[See Figure 1]**
   d. Remove bolts mounting Conveyor to slide rails -- 4 bolts, two each rail. **[See Figure 2]**
2. Remove Heater Conveyor plastic cover -- 2 screws.
   (Note: keep these screws separated - they are longer than standard)
3. Remove Heater Conveyor front.
   a. Remove stainless outer cover -- 2 screws.
   b. Remove front Conveyor frame -- 3 bolts. **[See Figure 3]**

Reassembly
4. Reinstall Heater Conveyor front frame piece and front metal cover.
5. Install Heater Conveyor plastic cover -- 2 long screws.
   Caution: DO NOT over tighten screws, this will damage plastic cover.
6. Install Infeed Conveyor
   a. Thread four mounting bolts finger-tight.
   b. Slide Conveyor fully into normal operating position.
   c. Slide Conveyor in and out several times to ensure proper alignment.
   d. Tighten four mounting bolts.
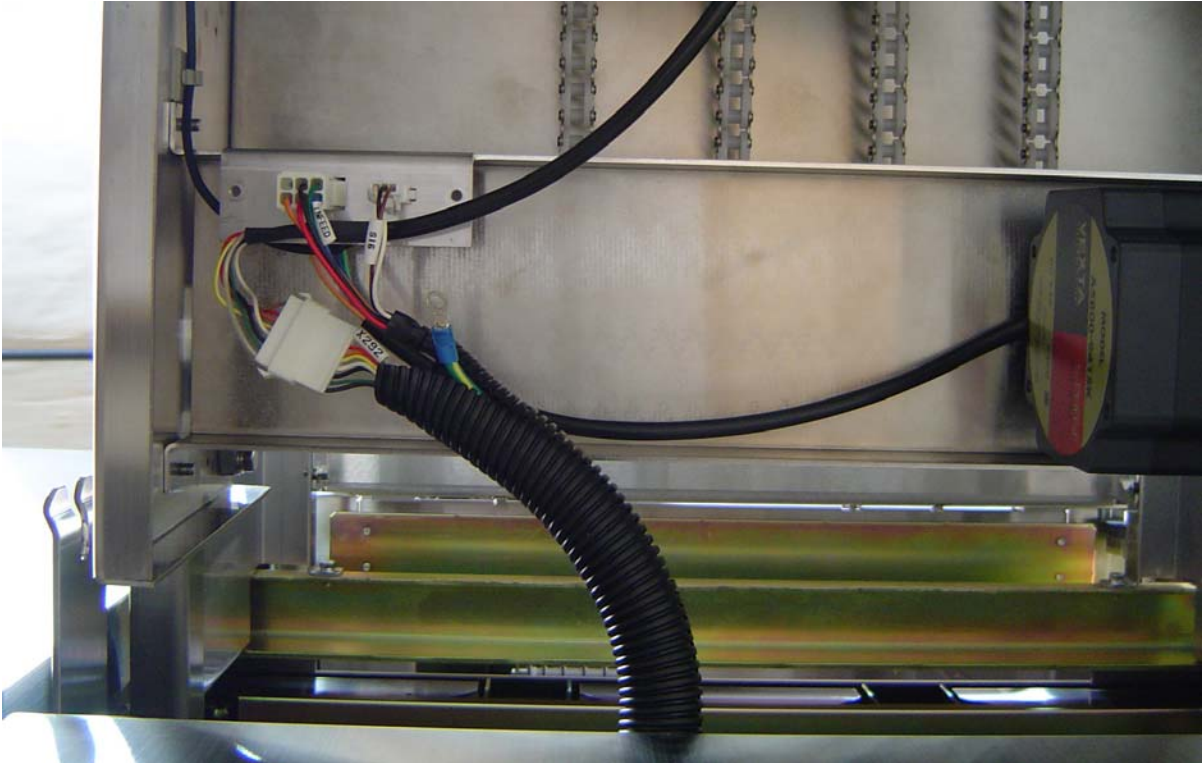   e. Reconnect cables.
   f. Install cover securing ground wire with one cover screw.

Figure 1. Infeed Conveyor cable connections (underside): S16, X292, INFEED.
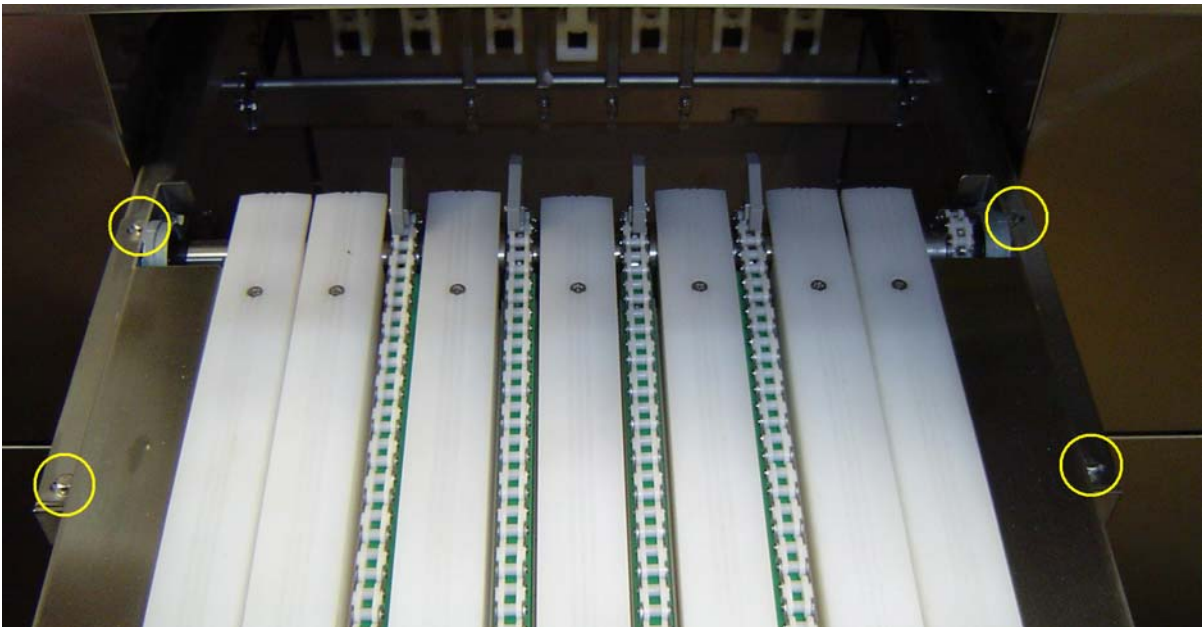
Figure 2. Infeed Conveyor mounting bolts.

Figure 3. Heater Conveyor front frame.

Smallest width
1. Remove Infeed Conveyor.
   CAUTION: Infeed Conveyor is heavy.
   a. Pull Conveyor forward to full extension.
   b. Remove connector board cover (underside, rear, left) -- 2 screws.
   c. Disconnect three cables: S16, X292, INFEED **[See Figure 1]**
   d. Remove bolts mounting Conveyor to slide rails -- 4 bolts, two each rail. **[See Figure 2]**
2. Remove left, front cover -- 6 screws.
3. Remove right, front cover -- 4 screws.
4. Remove Heater Temperature Control cover -- 6 screws.
5. Remove right angle bracket securing Exit Conveyor to Heater Conveyor -- 4 bolts.
6. Remove Exit Conveyor. **[See Figure 4]**
   a. Remove 8 bolts:
      -- 3 bolts on left upright bracket.
      -- 3 bolts on right upright bracket.
      -- 2 on underside center.
   b. Slide Conveyor forward off plastic drive belt.
7. Remove Heater Conveyor plastic cover -- 2 screws.
   (Note: keep these screws separated - they are longer than standard)
8. Remove stainless cover above and behind Heater Conveyor -- 2 screws.
9. Loosen Heater Conveyor drive chain tension.
   a. Loosen motor mounts -- 4 bolts. **[See Figure 5]**
   b. Raise motor and remove chain from motor sprocket.
10. Disconnect Heater Conveyor control cables.
    a. J5B from P-858B board. **[See Figure 6]**
    b. HTCLT in-line connector.
11. Remove Heater Conveyor.
    a. Remove 4 bolts securing Heater Conveyor to Heater Temperature Control assembly.
       [See Figure 7]
    b. Slide Heater Conveyor forward approximately one inch.
    c. Remove 2 bolts passing through frame and securing horizontal mounting bracket.
       [See Figure 8]
    d. Remove 2 bolts securing vertical mounting bracket to frame. **[See Figure 9]**
    e. Tip bottom of Heater Conveyor assembly forward and remove downward.
12. Remove Touchscreen Console.
    a. Remove Touchscreen plastic rear connector cover -- 2 screws.
    b. Disconnect data cable. **[See Figure 10]**
    c. Move top, right Film Loading door -- remove 4 screws, two each hinge. **[See Figure 11]**
    d. Remove Touchscreen Console mounting bracket cover -- 3 screws.
    e. Remove Touchscreen Console and mounting bracket -- 4 bolts.
13. Detach Emergency Stop Switch housing.
    a. Remove left side printer cover -- 7 screws.
    b. Loosen Emergency Stop Switch housing -- 4 screws. **[See Figure 12]**

Reassembly
14. Attach Emergency Stop Switch housing.
    a. Mount Emergency Stop Switch housing -- 4 screws.
    b. Install left side printer cover -- 7 screws.
15. Install Touchscreen console.
    a. Mount Touchscreen Console bracket -- 4 bolts.
    b. Install Touchscreen Console bracket cover -- 3 screws.
    c. Install top, right Film Loading door -- 4 screws, two each hinge.
    d. Connect Touchscreen data cable.
    e. Install Touchscreen plastic rear connector cover -- 2 screws.

16. Install Heater Conveyor.
    a. Secure horizontal mounting bracket -- 2 bolts passing through frame.
    b. Secure vertical mounting bracket to frame -- 2 bolts.
    c. Fasten Heater Conveyor to Heater Temperature Control assembly -- 4 bolts.
17. Connect Heater Conveyor control cables.
    a. J5B to P-858B board.
    b. HTCLT in-line connector.
18. Tighten Heater Conveyor drive chain.
    a. Secure chain over drive motor sprocket.
    b. Slide motor down to tension chain keeping motor square, i.e. adjustment slots evenly spaced.
    c. Tighten motor mounts -- 4 bolts.
19. Install stainless cover behind Heater Conveyor -- 2 screws.
20. Install Heater Conveyor plastic cover -- 2 long screws.
    Caution: DO NOT over tighten which will damage plastic cover.
21. Install Exit Conveyor -- 8 bolts.
    a. Left and right side upright brackets -- 3 bolts each side.
    b. Underside center -- 2 bolts.
22. Install Exit Conveyor plastic drive belt.
    a. Thread belt over Exit Conveyor gear.
    b. Thread belt over two guide rollers.
    c. Slide belt over Exit Conveyor drive motor gear.
23. Install right angle bracket securing Exit Conveyor to Heater Conveyor -- 4 bolts.
24. Install Heater Temperature Control cover -- 6 screws.
25. Install right, front cover -- 4 screws.
26. Install left, front cover -- 6 screws.
27. Install Infeed Conveyor
    a. Thread four mounting bolts finger-tight.
    b. Slide Conveyor fully into normal operating position.
    c. Slide Conveyor in and out several times to ensure proper alignment.
    d. Tighten four mounting bolts.
    e. Reconnect cables.
    f. Install cover securing ground wire with one cover screw.

Figure 4. Exit Conveyor mounting bolts (five of eight).
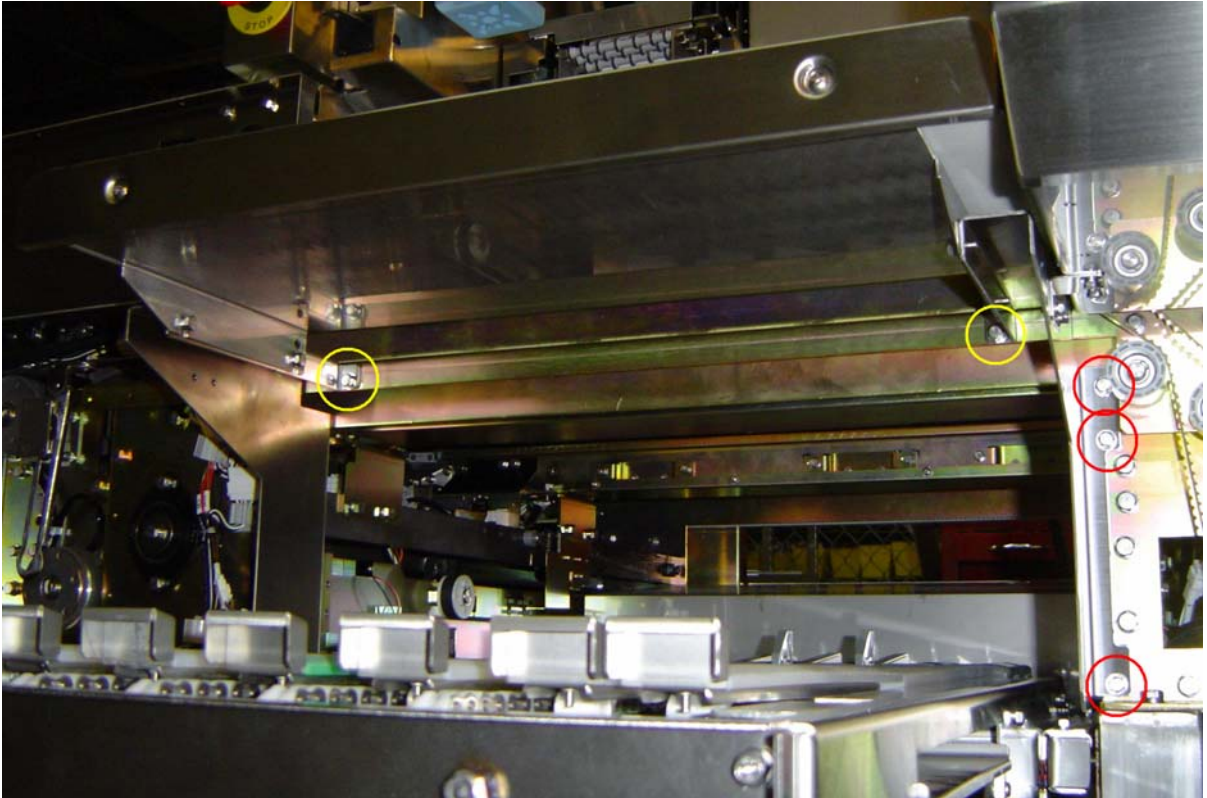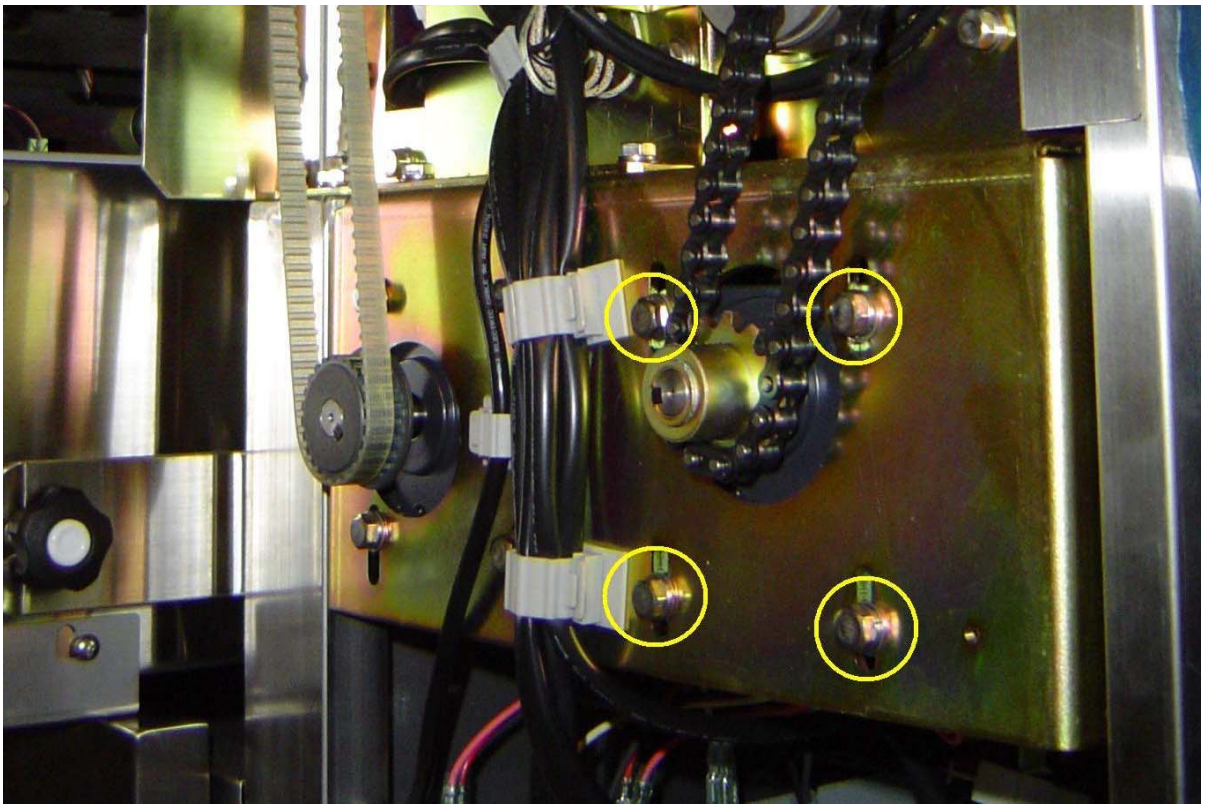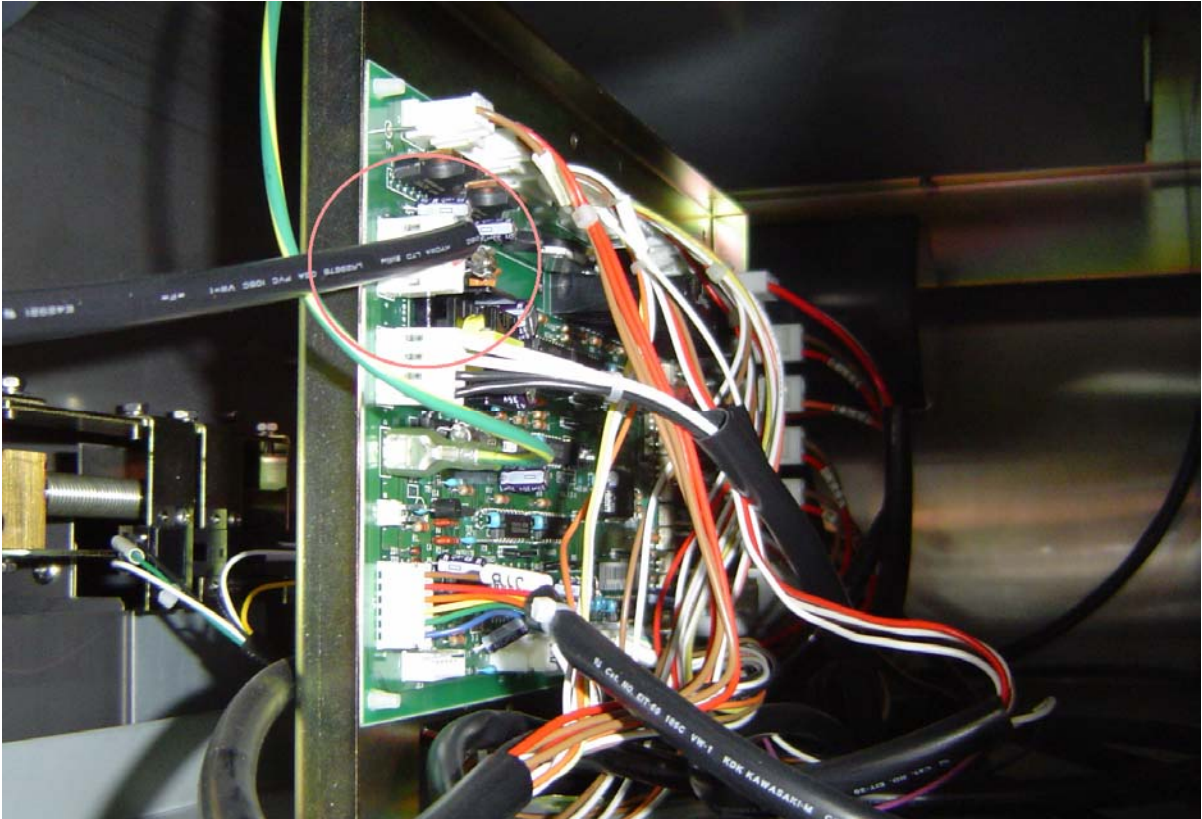

Figure 5. Heater Conveyor drive chain motor mounts.

Figure 6. Heater Conveyor cable connection: J5B on P-858B board.

Figure 7. Heater Conveyor mounting bolts (two of four).

Figure 8. Heater Conveyor horizontal mounting bracket.
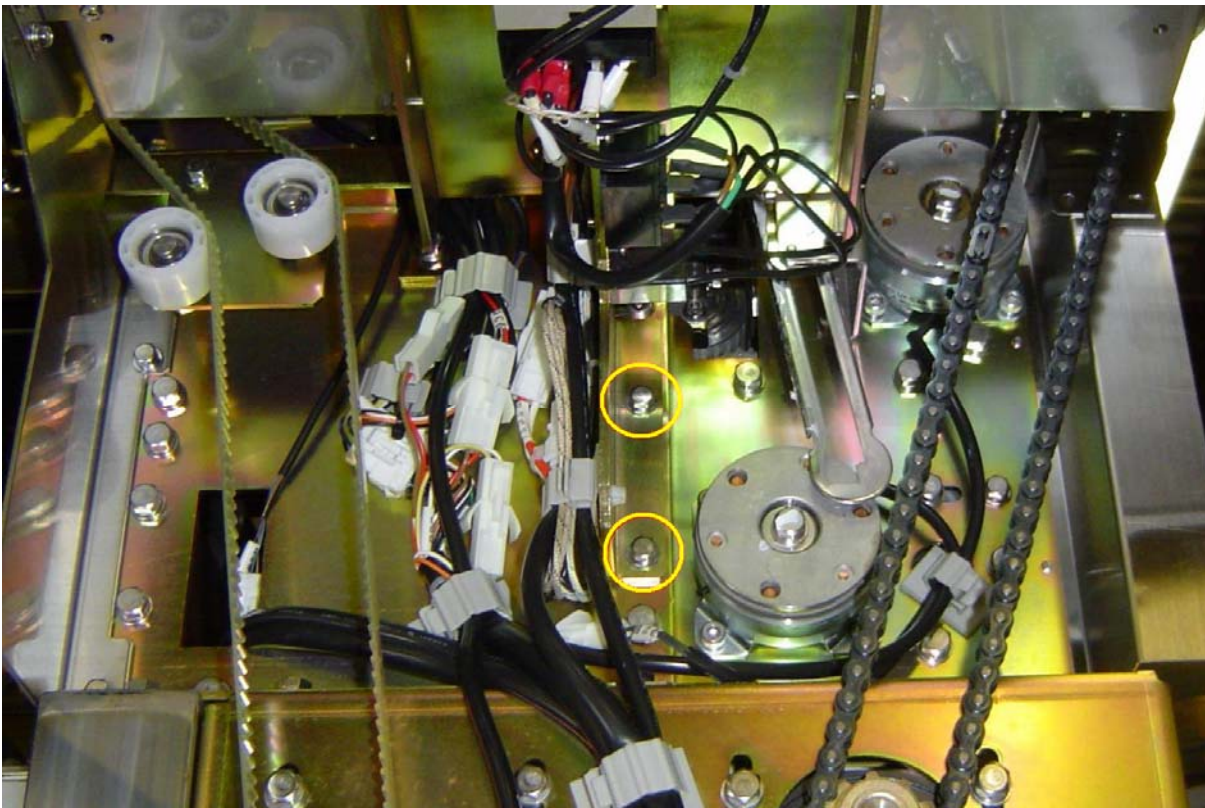
Figure 9. Heater Conveyor vertical support bracket.
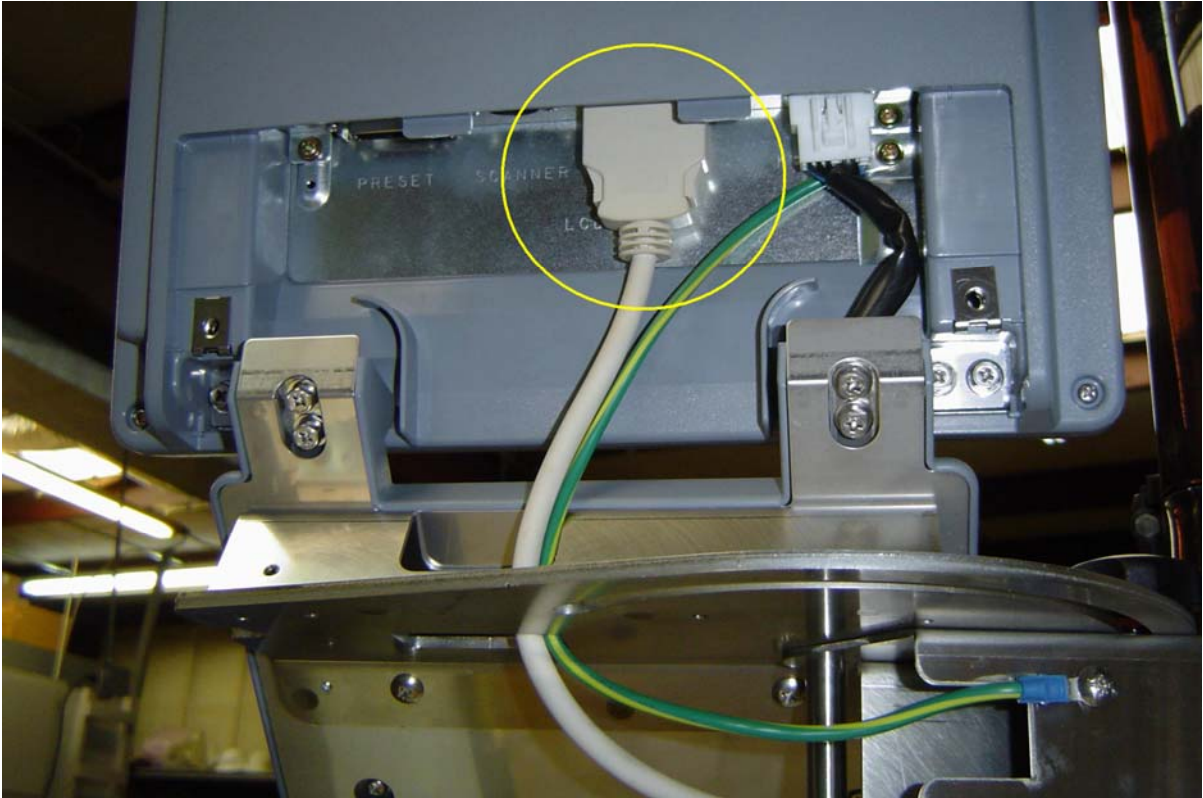
Figure 10. Touchscreen cable connection.
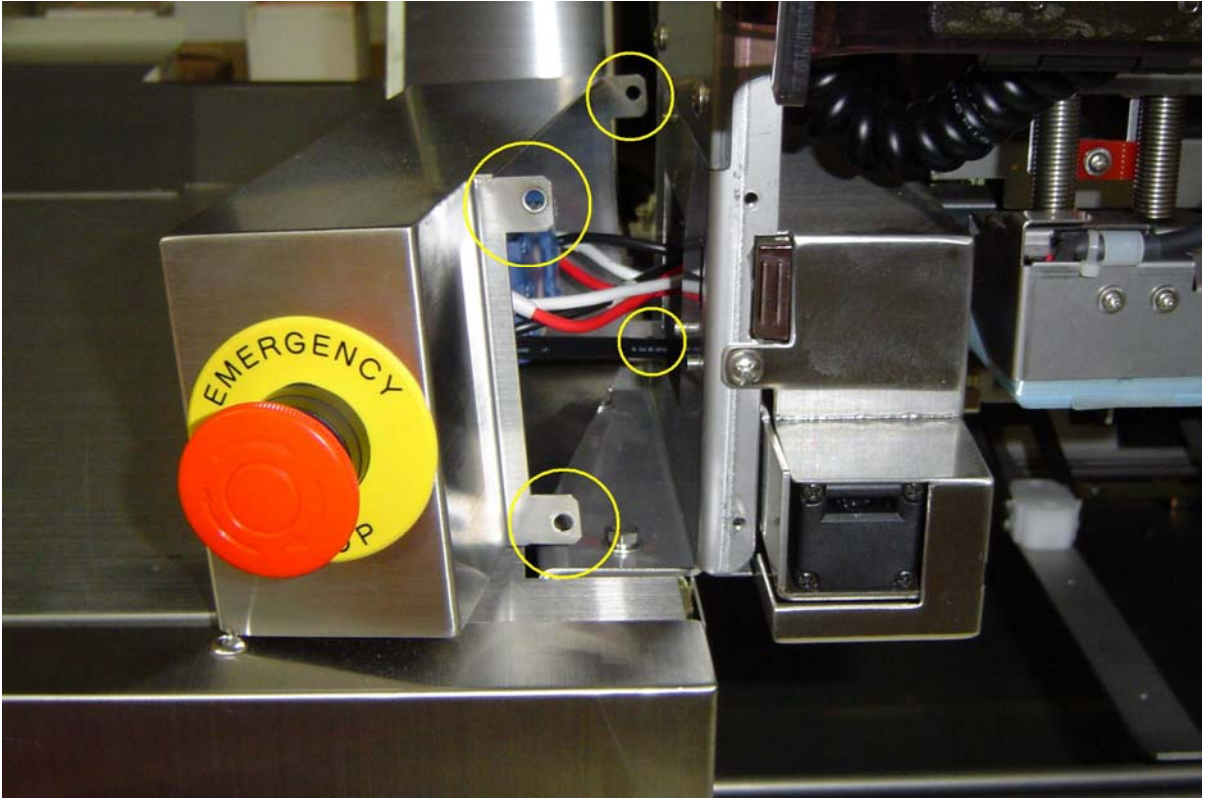

Figure 11. Film Loading top door hinge.

Figure 12. Emergency Stop switch housing -- four screws.