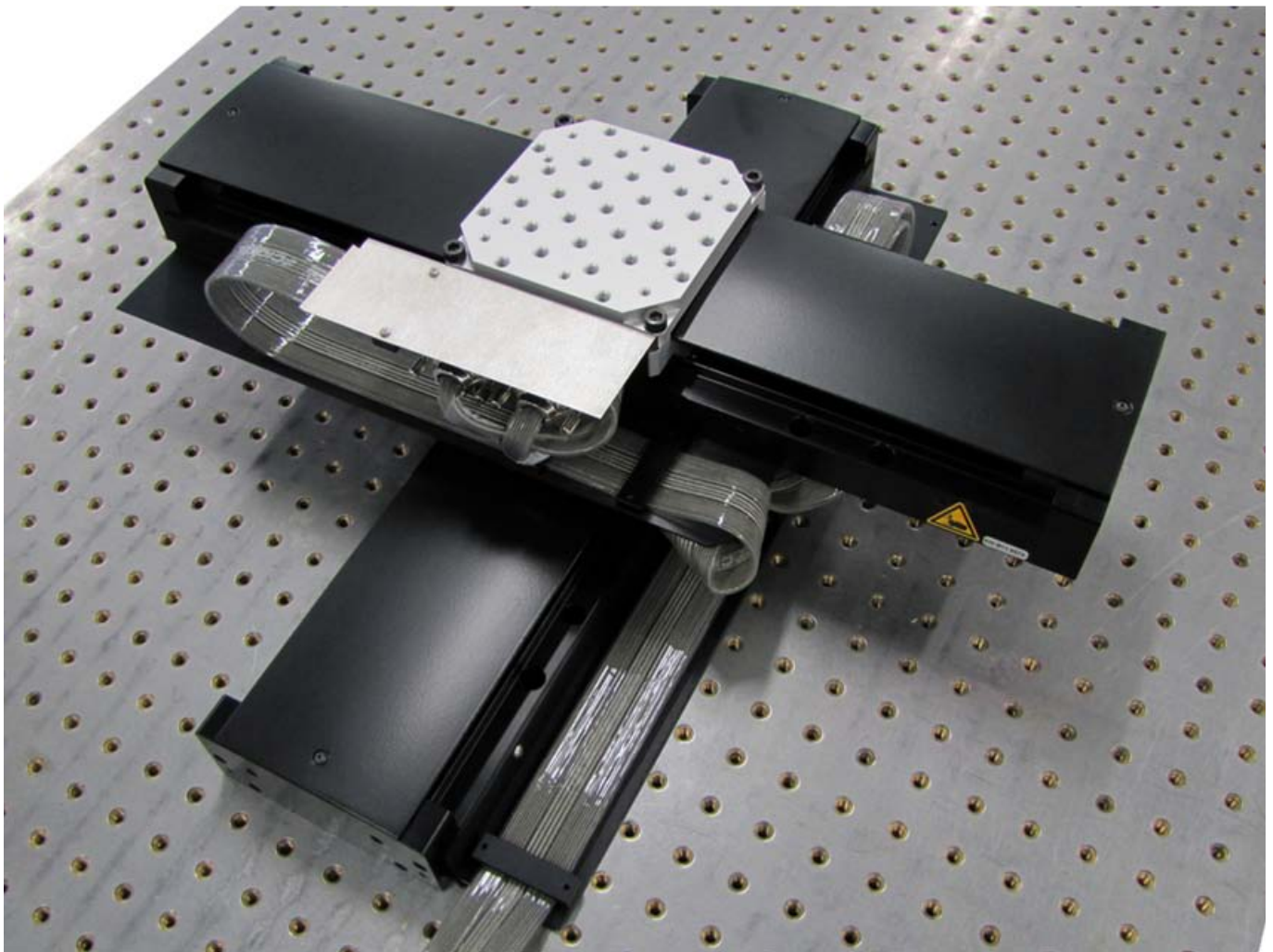


Assembly and Installation of the Newport **ILS300LM-CFXY** Flat Cable Management Kit



Rev. 1.0

1. Checking

Verify that all the parts are included in the package:

- Adaptor Plate (W19911A) Qty 1
- Support Bracket (W20959A) Qty 1
- Clamp (W19913A) Qty 4
- Spacer (W20958A) Qty 1
- Bottom Holder Plate (W19912A) Qty 1
- High (Tall) Clamp (W20960A) – Qty 3
- Cable – Qty 2
- M2.5 x 6 flat head cap screws (30229-FR), Qty 12
- M4 x 8 round cap screws (26373-FR), Qty 3
- M6 x 30 hex screws (10840) , Qty 4
- M2.5 x 5 round cap screws (30225-FR), Qty 2



Figure 1. Parts List.

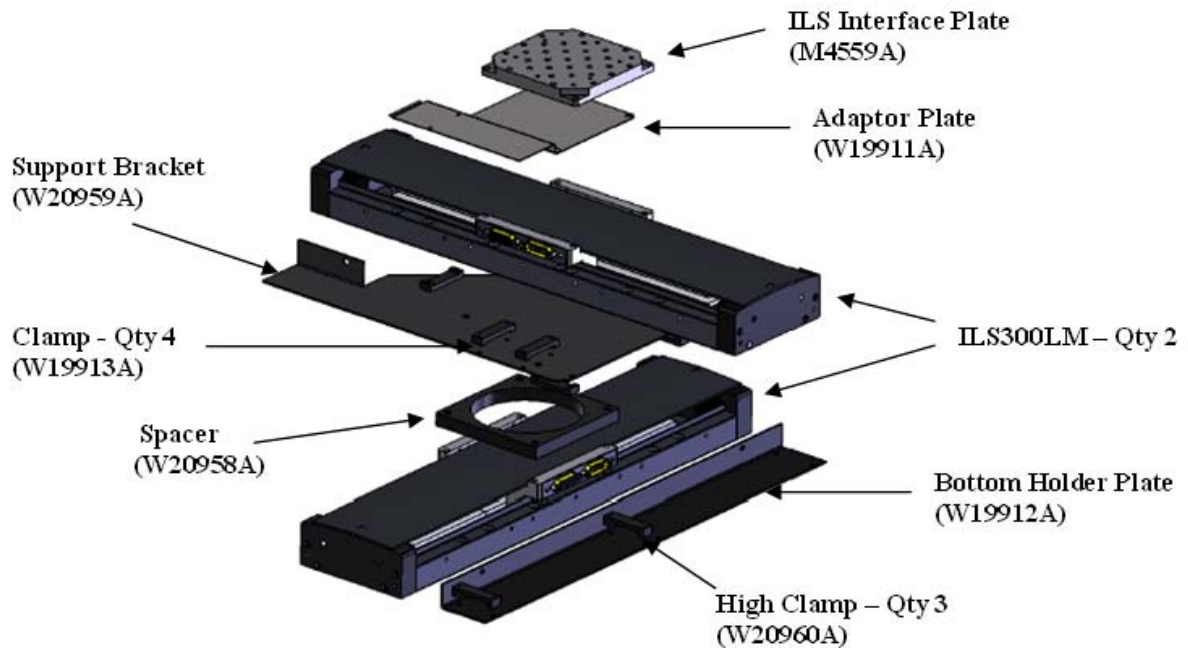


Figure 2. Exploded View.



WARNING

It is recommended to measure the drag loads of cables and keep it as low as possible (not to exceed maximum 6 N) by minimizing the stress at the end of cable and adjusting the clamp locations.

NOTE

There may be limitations on load capacity, max acceleration and other dynamic performance specifications when XY stages are assembled with the ILS300LM-CFXY cable management kit. Please call to discuss your application requirements.

2. X Stage: Bottom Holder Plate (W19912A) Assembly

On the connector side, attach the bottom holder plate (W19912A) to the base of the X (bottom ILS300LM) stage using the two M4 x 8 screws.



Figure 3. X-Stage Bottom Holder.

3. Y Stage: Support Bracket (W20959A) Assembly

- 3.1. On the connector side, attach the support bracket (W20959A) to the Y (top ILS300LM) stage with a M4 x 8 screw (in the tabbed hole on the left-hand side of connector)
- 3.2. Connect the Y cable to the D-SUB connectors of the Y (top ILS300LM) stage.
- 3.3. Use a clamp (W19913A) and two M2.5 x 5 round cap screws to attach the Y cable to the adaptor plate (W19911A) as shown in Fig 4 below. Keep the screws loose to tighten the clamp later.



Figure 4. Y-Stage Support Bracket.

- 3.4. Turn the adaptor plate (W19911A) upside down and mount the interface plate (M4559A) on the Y stage (top ILS300LM). Adjust the cable as needed and tighten the clamp.



Figure 5. Y-Stage Interface Plate.

- 3.5. Route the Y cable along the length of the support bracket (W20959A) and then at a right angle underneath (right side on the photo shown below).

Attach the cable to the support bracket (W20959A) using 2 cable clamps (W19913A) with M2.5x6 flat head cap screws (30229-FR). Move the Y-carriage back and forth to ensure that the cable is not stressed at both ends of travel and also that the cable moves straight before tightening the clamps.



Figure 6. Y-Stage Cable on Y-Support Bracket

4. XY Assembly with Cables

- 4.1. Connect the X cable to the D-SUB connectors of the X (bottom ILS300LM) stage. Mount spacer (W20958A) on the X-stage, then, mount the Y stage to the X stage using four M6 x 30 screws provided.
- 4.2. Loop X and Y cables together. Attach them underneath the support bracket (W20959A) using a high clamp (W20960A) with M2.5x6 flat head cap screws (30229-FR) and then along the length of the bottom holder plate (W19912A).



Figure 7. Y on top of the X-Stage, Cable Routing.

- 4.3. Use two high clamps (W20960A) and M2.5x6 flat head cap screws (30229-FR) to attach the X and Y cables to the bottom holder plate (W19912A). Move the X-carriage back and forth to ensure that the cables are not stressed at both ends of travel and also that the cables move straight before tightening the clamps.



Figure 8. Clamp locations.

5. Orthogonal Alignment

If orthogonal alignment is necessary between the X and Y stages, it can be performed at this point. Otherwise, the assembly of ILS300LM-CFXY cable management kit is complete.

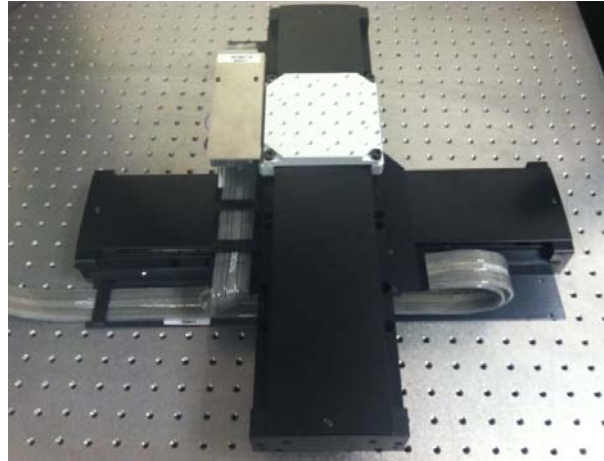


Figure 9. Completed Assembly.

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