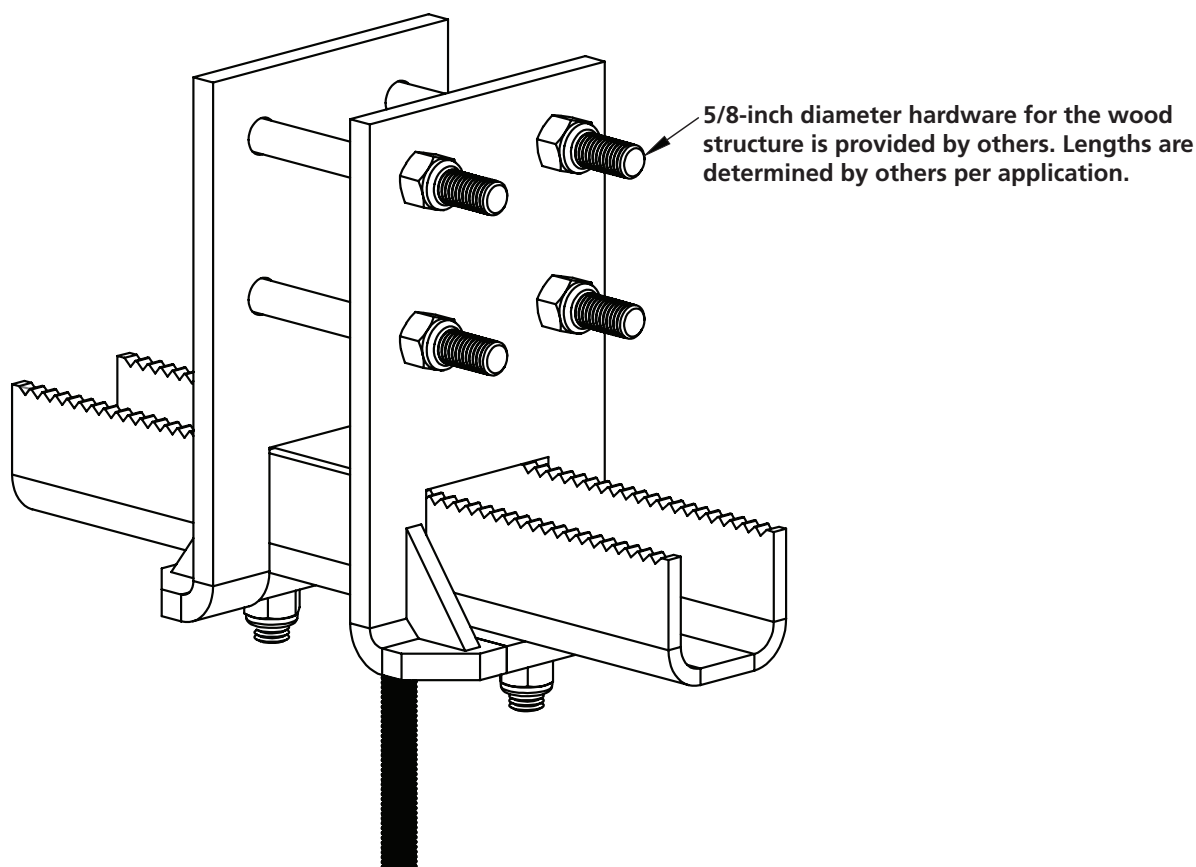


# WOOD-BEAM HANGER

## Manual Addendum

### Ceiling-Mounted Wood-Beam Hanger

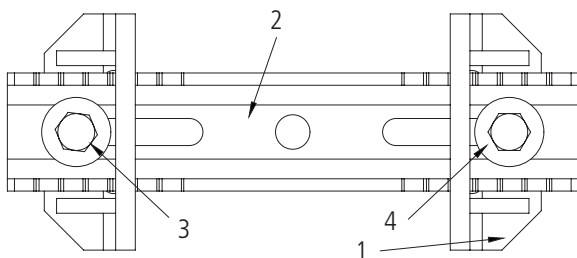


**NOTE:** This manual addendum must be read first and used in conjunction with manual 103-0075 or 103-0076 and all included drawings, especially drawing number *FA-MT-ASSEMBLY SHEET 1 OF 2* with manual 103-0075 or drawing number *FA-CMT-ASSEMBLY SHEET 1 OF 2* with manual 103-0076. Hereafter, these drawings will be referred to as *Assembly Drawing*.

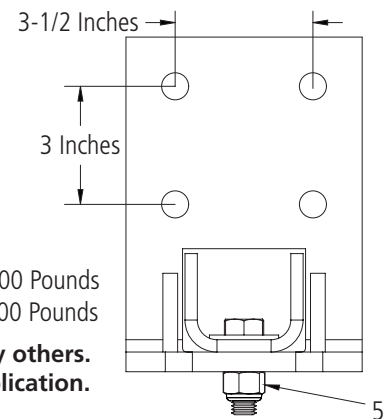
The use of this wood-beam hanger requires drilling holes through a wood beam commonly used in a building structure. Rigid Lifelines requires the customer to have a local professional engineer certify that the strength of the wood beam after the holes are drilled is both in compliance with local codes and ordinances and can support both the original load and the additional hanger loads from the system. To assist with this required certification, Rigid Lifelines provides the Wood-Beam Hanger Request for Quote Disclaimer during the selling process. You must take all appropriate steps to make sure that you indicate that your application meets or will meet all of the requirements on the Wood-Beam Hanger Request for Quote Disclaimer before using the system. Rigid Lifelines cannot be held liable for any damage or injury resulting from the incorrect evaluation of the building requirements by the customer. A copy of the Wood-Beam Hanger Request for Quote Disclaimer requirements are below. Make sure that the wood-beam hanger is installed per the requirements in this addendum and manual 103-0075 or 103-0076.

### Requirements for Quote

- The calculations which verify that the customer's support structure is sufficiently strong enough to resist all applied loads are provided by others.
- A local professional engineer hired by the customer must certify that the strength of the wood beam after the holes are drilled is in compliance with local codes and ordinances.
- A local professional engineer hired by the customer must certify that the strength of the wood beam after the holes are drilled can support both the original load and the additional hanger loads from the system.
- The local professional engineer's certification should be retained in the customer's records.
- The engineering of any customer-provided custom hanger design, hanger arrangement, and hanger welding, if applicable, is to be provided by others. Determination of wood strength is to be provided by others.
- The steel portion of the wood-beam hanger has a maximum loading of 10,000 pounds for 5/8-inch diameter drop rods and 10,000 pounds for 3/4-inch diameter drop rods.

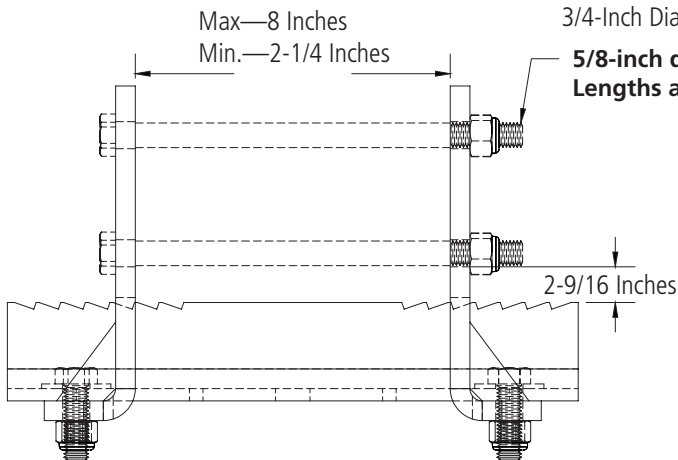


**NOTE:** Item 2 is part number 9-1285 for 5/8-inch diameter drop rods and 9-1568 for 3/4-inch diameter drop rods.



**NOTE:** 5/8-Inch Diameter Drop Rod Max. Loading—10,000 Pounds  
 3/4-Inch Diameter Drop Rod Max. Loading—10,000 Pounds

**5/8-inch diameter hardware is provided by others.  
 Lengths are determined by others per application.**



Item	Part Number	Description
1	9-5242	Wood-Beam Hanger Weldment
2	9-1XXX	Beam Clamp Channel
3	10-0301	5/8-Inch by 2-Inch Hex Head Bolt
4	15-0004	5/8-Inch Flat Washer
5	13-0001	5/8-Inch Hex Locknut

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## 1. Wood-Beam Hanger for Plain Track

**Refer to Figure 1 on page 5 and the Assembly Drawing FA-MT-ASSEMBLY SHEET 1 OF 2 from Manual 103-0075 or Assembly Drawing FA-CMT-ASSEMBLY SHEET 1 OF 2 from Manual 103-0076 for Steps A Through AJ**

- a) Ensure that track splices (B in *Assembly Drawing Building Materials Description*), if supplied, have been installed per **ATTACHING THE TRACK SPLICE TO THE TRACK SECTIONS** in manual 103-0075 or manual 103-0076.
- b) Using a measuring tape and a permanent marker, measure and mark one-foot in from each end of the track (C in *Assembly Drawing Building Materials Description*) for standard overhang. Also measure and mark your support spacing requirements on the entire track (C in *Assembly Drawing Building Materials Description*). These locations are where the hanger kits (A in *Assembly Drawing Building Materials Description*) should be installed on the track (C in *Assembly Drawing Building Materials Description*).

**NOTE:** One-foot overhang is standard. Refer to your Final Fabrication Drawing for correct overhang lengths and support spacing for your specific system.

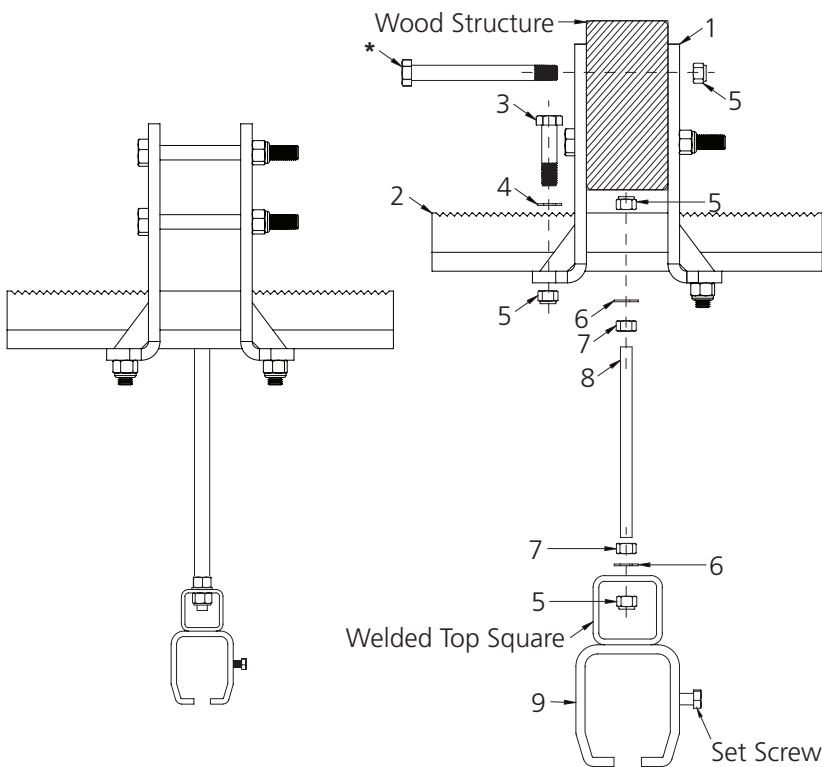
- c) Per **Figure 1**, slide all of the hanger brackets (9) onto the track (C in *Assembly Drawing Building Materials Description*) so that the welded top square on the hanger bracket (9) is facing up away from the track (C in *Assembly Drawing Building Materials Description*).
- d) Per **Figure 1**, slide an end hanger bracket (9) onto the marked spot on the track (C in *Assembly Drawing Building Materials Description*) so that the welded top square on the hanger bracket (9) is facing up away from the track (C in *Assembly Drawing Building Materials Description*).
- e) Per **Figure 1**, **securely tighten** the side set screw to align the track (C in *Assembly Drawing Building Materials Description*) against the side of the hanger bracket (9). Do not overtighten the set screw.

**NOTE:** The hanger bracket (9) comes with a set screw threaded into the side. It doesn't matter which side. However, ensure that each hanger bracket (9) has the set screw threaded into the same side.

- f) Per **Figure 1**, screw a nut (7) onto the bottom of the threaded drop rod (8) and adjust so that about three inches of the drop rod (8) are showing from the bottom of the nut (7).
- g) Per **Figure 1**, slide a lock washer (6) onto the threaded drop rod (8) so that the lock washer (6) is underneath the nut (7).
- h) Per **Figure 1**, insert the bottom of the threaded drop rod (8) into the hole on the welded top square of the hanger bracket (9) until the lock washer (6) is flush against the top of the welded top square of the hanger bracket (9) and the nut (7) is flush against the lock washer (6).
- i) Per **Figure 1**, **securely tighten** a locknut (5) to the bottom of the threaded drop rod (8) and adjust so that an inch of drop rod (8) is showing underneath the locknut (5).
- j) Per **Figure 1**, screw a nut (7) onto the top of the threaded drop rod (8) and adjust so that about three inches of the drop rod (8) are showing from the top of the nut (7).
- k) Repeat steps d) through j) to attach all hanger brackets (9 in *Figure 1*) to the marked spots on the track (C in *Assembly Drawing Building Materials Description*).
- l) Use a man lift or cherry picker to reach the wood structure to measure its thickness.
- m) Per **Figure 1**, slide the wood-beam hanger weldment (1) on the beam clamp channel (2) using the measurement from step l) so that the drop-rod hole in the beam clamp channel (2) will be in the center of the wood structure.
- n) Per **Figure 1**, insert a bolt (3) through a flat washer (4), the slot in the beam clamp channel (2), and the hole in the wood-beam hanger weldment (1) so that the flat washer (4) is underneath the bolt head and on top of the slot in the beam clamp channel (2).
- o) Per **Figure 1**, **securely tighten** a locknut (5) to the bolt (3).

- p)** Repeat steps **n)** and **o)** to attach the remaining wood-beam hanger weldment (1 in *Figure 1*) to the beam clamp channel (2 in *Figure 1*).
  - q)** Repeat steps **m)** through **p)** to attach all wood-beam hanger weldments (1 in *Figure 1*) to the beam clamp channels (2 in *Figure 1*).
  - r)** Measure the distance between the hole centers on the wood-beam hanger weldments (1 in *Figure 1*).
  - s)** Use a man lift or cherry picker to reach the wood structure.
  - t)** Using a permanent marker, mark the hole center locations on the wood structure using the measurements from step **r)**.
  - u)** A local professional engineer hired by the customer must certify that the strength of the wood beam after the holes are drilled is in compliance with local codes and ordinances and can support both the original load and the additional hanger loads from the system. After this certification has been obtained, drill four holes into the wood structure.
  - v)** Repeat steps **s)** through **u)** to drill the holes for each hanger assembly.
  - w)** Per **Figure 1**, slide a lock washer (6) onto the threaded drop rod (8) so that the lock washer (6) is on top of the nut (7).
  - x)** Per **Figure 1**, insert the top of the drop rod (8) through the drop-rod hole in the beam clamp channel (2) so that the lock washer (6) is flush against the bottom of the beam clamp channel (2).
  - y)** Per **Figure 1**, **securely tighten** a locknut (5) to the top of the drop rod (8).
  - z)** Repeat steps **w)** through **y)** to attach the remaining beam clamp channels (2 in *Figure 1*) to the top of the drop rods (8 in *Figure 1*).
  - aa)** Using a crane and lifting straps, lift the track (C in *Assembly Drawing Building Materials Description*) to the existing wood structure.
  - ab)** Use a man lift or cherry picker to reach the track (C in *Assembly Drawing Building Materials Description*) and wood structure.
  - ac)** Per **Figure 1**, position the track and attached components (1 through 9) so that the wood-beam hanger weldments (1) are on either side of the wood structure.
- NOTE:** Track splice joints (B in *Assembly Drawing Building Materials Description*) must be within one-foot from the center of where the wood-beam hanger weldments (1 in *Figure 1*) and beam clamp channel (2 in *Figure 1*) connect to the wood structure.
- ad)** Per **Figure 1**, align the holes in the wood-beam hanger weldments (1) with the drilled holes in the wood structure.
  - ae)** Per **Figure 1**, insert 5/8-inch diameter bolts provided by others through the aligned holes in the wood-beam hanger weldments (1) and the wood structure.
  - af)** Per **Figure 1**, **securely tighten** all 5/8-inch diameter hardware provided by others to the 5/8-inch diameter bolt provided by others.
  - ag)** Repeat steps **aa)** through **af)** to attach the track (C in *Assembly Drawing Building Materials Description*) to the remaining wood structures.
  - ah)** Repeat steps **a)** through **ag)** to attach the remaining tracks (C in *Assembly Drawing Building Materials Description*) to the wood structures.
  - ai)** After all track (C in *Assembly Drawing Building Materials Description*) has been **securely tightened** to all wood structures, torque all 5/8-inch diameter locknuts (5 in *Figure 1*) to 93 foot-pounds.
  - aj)** Proceed to **FINAL ASSEMBLY** instructions in manual 103-0075 or in manual 103-0076.

Figure 1



Item	Description
1	Wood-Beam Hanger Weldment
2	Beam Clamp Channel
3	5/8-Inch Dia. by 2-Inch Hex Head Bolt
4	5/8-Inch Dia. Flat Washer
5	5/8-Inch Dia. Hex Locknut
6	5/8-Inch Dia. Lock Washer
7	5/8-Inch Dia. Hex Nut
8	5/8-Inch Dia. Drop Rod
9	Hanger Bracket

**NOTE:** 700 Series Plain Track uses 3/4-inch diameter hardware. Torque 3/4-inch diameter hardware to 151 foot-pounds.

**\*NOTE:** 5/8-inch diameter hardware for the wood structure is provided by others. Lengths are determined by others per application.

## 2. Wood-Beam Hanger for Trussed Track

Refer to **Figure 2** on page 7 and the **Assembly Drawing FA-MT-ASSEMBLY SHEET 1 OF 2** from Manual 103-0075 or **Assembly Drawing FA-CMT-ASSEMBLY SHEET 1 OF 2** from Manual 103-0076 for Steps A Through AJ

- Ensure that track splices (B in *Assembly Drawing Building Materials Description*), if supplied, have been installed per **ATTACHING THE TRACK SPLICE TO THE TRACK SECTIONS** in manual 103-0075 or manual 103-0076.
- Using a measuring tape and a permanent marker, measure and mark one-foot in from each end of the track (C in *Assembly Drawing Building Materials Description*) for standard overhang. Also measure and mark your support spacing requirements on the entire track (C in *Assembly Drawing Building Materials Description*). These locations are where the hanger kits (A in *Assembly Drawing Building Materials Description*) should be installed on the track (C in *Assembly Drawing Building Materials Description*).

**NOTE:** One-foot overhang is standard. Refer to your Final Fabrication Drawing for correct overhang lengths and support spacing for your specific system.

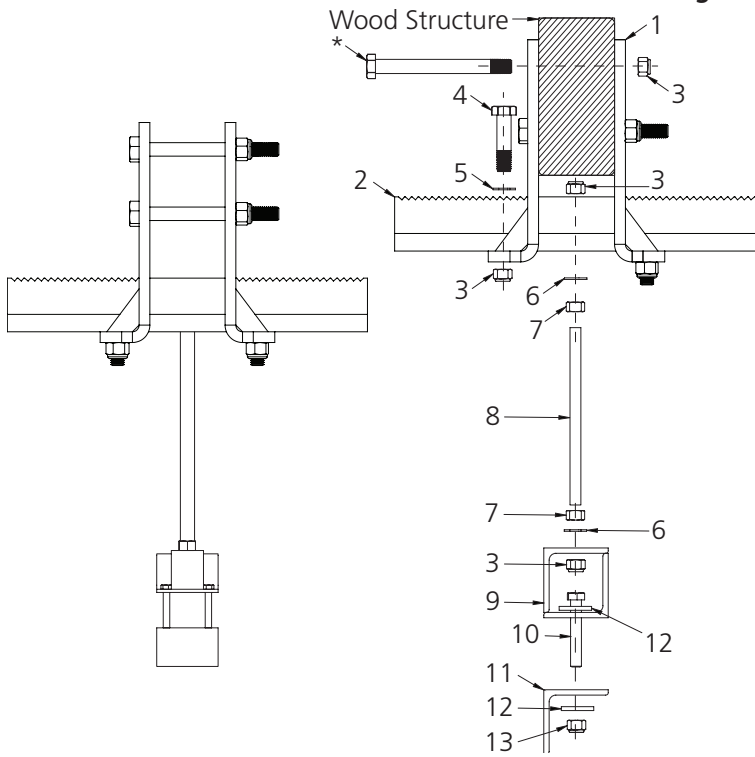
- Per **Figure 2**, insert two bolts (10) through two flat washers (12) and the bottom slots of the hanger truss bracket (9) so that the flat washers (12) are between the bolt heads and the bottom of the hanger truss bracket (9).
- Per **Figure 2**, place the hanger truss bracket (9) on the marked spot on the end of the track so that the bolts (10) hang down on both sides of the track. Ensure that the end of the hanger truss bracket (9) is one-foot six-inches from the end of the track for standard overhang.
- Per **Figure 2**, **securely tighten** the angle truss clamps (11) to the bolts (10) using flat washers (12) and locknuts (13) so that the flat washers (12) are between the angle truss clamps (11) and locknuts (13). Ensure that the angle truss clamps (11) form *inverted-L's*.



- f) Per **Figure 2**, screw a nut (7) onto the bottom of the threaded drop rod (8) so that about three inches of the drop rod (8) are showing from the bottom of the nut (7).
- g) Per **Figure 2**, slide a lock washer (6) onto the threaded drop rod (8) so that the lock washer (6) is underneath the nut (7).
- h) Per **Figure 2**, insert the bottom of the threaded drop rod (8) into the top hole of the hanger truss bracket (9) until the lock washer (6) is flush against the top of the hanger truss bracket (9) and the nut (7) is flush against the lock washer (6).
- i) Per **Figure 2**, **securely tighten** a locknut (3) to the bottom of the threaded drop rod (8) and adjust so that an inch of drop rod (8) is showing underneath the locknut (3).
- j) Per **Figure 2**, screw a nut (7) onto the top of the threaded drop rod (8) and adjust so that about three inches of the drop rod (8) are showing from the top of the nut (7).
- k) Repeat steps c) through j) to attach all hanger truss brackets (9 in *Figure 2*) to the marked spots on the track (C in *Assembly Drawing Building Materials Description*).
- l) Use a man lift or cherry picker to reach the wood structure to measure its thickness.
- m) Per **Figure 2**, slide the wood-beam hanger weldment (1) on the beam clamp channel (2) using the measurement from step m) so that the drop-rod hole in the beam clamp channel (2) will be in the center of the wood structure.
- n) Per **Figure 2**, insert a bolt (4) through a flat washer (5), the slot in the beam clamp channel (2), and the hole in the wood-beam hanger weldment (1) so that the flat washer (5) is underneath the bolt head and on top of the slot in the beam clamp channel (2).
- o) Per **Figure 2**, **securely tighten** a locknut (3) to the bolt (4).
- p) Repeat steps n) and o) to attach the remaining wood-beam hanger weldment (1 in *Figure 2*) to the beam clamp channel (2 in *Figure 2*).
- q) Repeat steps m) through p) to attach all wood-beam hanger weldments (1 in *Figure 2*) to the beam clamp channels (2 in *Figure 2*).
- r) Measure the distance between the hole centers on the wood-beam hanger weldments (1 in *Figure 2*).
- s) Use a man lift or cherry picker to reach the wood structure.
- t) Using a permanent marker, mark the hole center locations on the wood structure using the measurements from step r).
- u) A local professional engineer hired by the customer must certify that the strength of the wood beam after the holes are drilled is in compliance with local codes and ordinances and can support both the original load and the additional hanger loads from the system. After this certification has been obtained, drill four holes into the wood structure.
- v) Repeat steps s) through u) to drill the holes for each hanger assembly.
- w) Per **Figure 2**, slide a lock washer (6) onto the threaded drop rod (8) so that the lock washer (6) is on top of the nut (7).
- x) Per **Figure 2**, insert the top of the drop rod (8) through the drop-rod hole in the beam clamp channel (2) so that the lock washer (6) is flush against the bottom of the beam clamp channel (2).
- y) Per **Figure 2**, **securely tighten** a locknut (3) to the top of the drop rod (8).
- z) Repeat steps w) through y) to attach the remaining beam clamp channels (2 in *Figure 2*) to the top of the drop rods (8 in *Figure 2*).
- aa) Using a crane and lifting straps, lift the track (C in *Assembly Drawing Building Materials Description*) to the existing wood structure.

- ab)** Use a man lift or cherry picker to reach the track (C in *Assembly Drawing Building Materials Description*) and wood structure.
- ac)** Per **Figure 2**, position the track and attached components (1 through 13) so that the wood-beam hanger weldments (1) are on either side of the wood structure.
- NOTE:** Track splice joints (B in *Assembly Drawing Building Materials Description*) must be within four feet from the center of where the wood-beam hanger weldments (1 in *Figure 2*) connect to the wood structure.
- ad)** Per **Figure 2**, align the holes in the wood-beam hanger weldments (1) with the drilled holes in the wood structure.
- ae)** Per **Figure 2**, insert 5/8-inch diameter bolts provided by others through the aligned holes in the wood-beam hanger weldments (1) and the wood structure.
- af)** Per **Figure 2**, **securely tighten** all 5/8-inch diameter hardware provided by others to the 5/8-inch diameter bolt provided by others.
- ag)** Repeat steps **ab)** through **af)** to attach the track (C in *Assembly Drawing Building Materials Description*) to the remaining wood structures.
- ah)** Repeat steps **a)** through **ag)** to attach the remaining tracks (C in *Assembly Drawing Building Materials Description*) to the wood structures.
- ai)** After the track (C in *Assembly Drawing Building Materials Description*) has been **securely tightened** to all wood structures, torque all 5/8-inch diameter locknuts (3 in *Figure 2*) to 93 foot-pounds and all 1/2-inch diameter locknuts (13 in *Figure 2*) to 51 foot-pounds.
- aj)** Proceed to **FINAL ASSEMBLY** instructions in manual 103-0075 or in manual 103-0076.

**Figure 2**



Item	Description
1	Wood-Beam Hanger Weldment
2	Beam Clamp Channel
3	5/8-Inch Dia. Hex Locknut
4	5/8-Inch Dia. by 2-Inch Hex Head Bolt
5	5/8-Inch Dia. Flat Washer
6	5/8-Inch Dia. Lock Washer
7	5/8-Inch Dia. Hex Nut
8	5/8-Inch Dia. Drop Rod
9	Hanger Truss Bracket
10	1/2-Inch Dia. Hex Head Bolt
11	Angle Truss Clamp
12	1/2-Inch Dia. Flat Washer
13	1/2-Inch Dia. Hex Locknut

**\*NOTE:** 5/8-inch diameter hardware for the wood structure is provided by others. Lengths are determined by others per application.

**NOTE:** 700 Series Plain Track uses 3/4-inch diameter hardware. Torque 3/4-inch diameter hardware to 151 foot-pounds.

# ABOUT RIGID LIFELINES®

## OUR MISSION:

Rigid Lifelines is driven by passion for providing our customers with quality, user-friendly solutions to keep workers safer and more productive at elevation.

## OUR COMMITMENT

Rigid Lifelines professionals are dedicated to designing and manufacturing a variety of fall protection systems that meet or exceed OSHA requirements and ANSI Z359 code. Our team of engineers and safety professionals combine over 30 years of experience in the fall protection industry to manufacture fall protection systems that utilize the most advanced technology and designs.

Rigid Lifelines production facilities are certified under the ISO 9001:2015 Quality Management System to provide superior quality products. And every welder at Rigid Lifelines is certified to handle steel (D1.1) and aluminum (D1.2) in accordance with the rigorous requirements and lab testing established by the American Welders Society (AWS).

Rigid Lifelines engineers are involved with ANSI Z359 Technical Review Committee and the ANSI Z359.19 Rigid Horizontal Rail Standard. We also participate with the Safety & Health Technology Committee of the Association of Iron & Steel Technology. Our involvement allows us to keep a constant pulse on the trends in both industry practice and government regulation.

## OUR PRODUCTION:

All of our systems are designed and manufactured in the United States of America. We have production facilities in Las Vegas, Nevada, and at our headquarters in Morgantown, Pennsylvania.



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