Stat Trac® Fastening System

Models 185-86, 185-91, 185-96, 185-103

⊕FERNO®

*Read this Manual and Retain
for Future Reference*

Ferno Customer Relations

For ordering assistance or general information:

CANADA AND THE U.S.A.

Telephone (Toll-free)	1.877.733.0911
Telephone	1.937.382.1451
Fax (Toll-free)	1.888.388.1349
Fax	1.937.382.1191
Internet	www.ferno.com

ALL OTHER LOCATIONS

For assistance or information, please contact your Ferno distributor. If you do not have a Ferno distributor, please contact Ferno Customer Relations:

Ferno-Washington, Inc., 70 Weil Way
Wilmington, Ohio 45177-9371, U.S.A.

Telephone	Country Code +1.937.382.1451
Fax	Country Code +1.937.382.6569
Internet	www.ferno.com

Serial Number _____

Location: Inside the track, near the funnel

Disclaimer

This manual contains general instructions for the use, operation and care of this product. The instructions are not all-inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations and local protocol. Training on the proper use of this product must be provided before using this product in an actual situation.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Customer Relations.

Proprietary Notice

The information disclosed in this manual is the property of Ferno-Washington, Inc., Wilmington, Ohio, USA. Ferno-Washington, Inc. reserves all intellectual property rights, proprietary design rights, manufacturing rights, reproduction use rights, and sales use rights thereto, and to any article disclosed therein except to the extent those rights are expressly granted to others or where not applicable to vendor proprietary parts.

Limited Warranty Statement

The products sold by Ferno are covered by a limited warranty, which is printed on all Ferno invoices. The complete terms and conditions of the limited warranty, and the limitations of liability and disclaimers, are also available upon request by calling Ferno at 1.800.733.3766 or 1.937.382.1451.

TABLE OF CONTENTS

1 - SAFETY INFORMATION

1.1 Warning

Warning notices indicate a potentially hazardous situation which, if not avoided, could result in injury or death.

⚠ WARNING
Improper installation can cause injury. The installer should test your fastening system setup to meet or exceed all applicable guidelines.
Untrained operators can cause injury or be injured. Permit only trained personnel to operate the Stat Trac.
Improper use can cause injury. Use the Stat Trac only for the purpose described in this manual.
An improper cot can cause injury. Use only Ferno cots designed or properly modified for use with the Stat Trac.
Improper operation can cause injury. Operate the Stat Trac only as described in this manual.
Improper adjustment can cause injury and damage. Do not loosen the fastener posts. If needed, adjust only the height of the fastener-post brackets.
Improper maintenance can cause injury. Maintain the Stat Trac only as described in this manual.
Improper parts and service can cause injury. Use only Ferno parts and Ferno-approved service on the Stat Trac.
Modifying the Stat Trac can cause injury and damage. Use the Stat Trac only as designed by Ferno.

1.2 Important

Important notices emphasize important usage or maintenance information. Failure to follow Important notices could result in damage to the product or property damage.

Important

1.3 Tip

Tips provide recommendations for easier use of the product.

Tip

1.4 Bloodborne Disease Notice

To reduce the risk of exposure to blood or other potentially infectious materials when using the Stat Trac®, follow the disinfecting and cleaning instructions in this manual.

1.5 Fastening System Compatibility

Note: *For the purpose of this notice, all Ferno® transporters are included under the generic term, "cot."*

Combining different manufacturers' products such as a Ferno cot/transport system with a non-Ferno fastening system can increase the user's risk of injury and damage.

Ferno-Washington, Inc. products are designed for use only with Ferno-manufactured fastening systems. Use of a Ferno cot/transport system with a non-Ferno fastening system is misuse of the Ferno product. The user assumes responsibility for the outcome of known, intentional misuse.

1.6 Symbol Glossary

The symbols defined at right are used on the Stat Trac and/or in this' manual. Ferno uses symbols recognized by the International Standards Organization (ISO), American National Standards Institute (ANSI) and the emergency medical services industry.

General Warning of Potential Injury

Read the Users' Manual

Unlocked

Locked

Do Not Lubricate

Lubricate

Manufacturer

EC	REP

Authorized Representative in the European Community

1.7 Compliance

SPECIFICATIONS AND STANDARDS

When properly installed and used with appropriate additional Ferno products, the fastening system meets or exceeds the following specifications and standards listed below.

Standards and specifications are updated periodically. Current guidelines are available from these organizations.

U.S.A. AND CANADA

- **AMD:** Ambulance Manufacturer's Division (AMD) of the National Truck Equipment Association Standard 004 (August 2007 edition), Litter Retention System Static Test.

- **KKK-A-1822 (F):** Federal Ambulance Specification KKK-A-1822 revision F (2007), Change Notice 8 as applicable.

- **NFPA:** National Fire Protection Association standard NFPA® 1917 (2016 edition).

- **SAE:** Society of Automotive Engineers SAE J3027 Recommended Practice (2014). See "How to Meet SAE J3027" on page 5.

- **CAAS:** Commission on Accreditation of Ambulance Services Global Vehicle Standard (GVS) v1.0

- **Ontario**: Ontario Land Ambulance Standard, Version 5.0, September 28, 2012; Section 20.1 Main Cot Retention

- **BCAS:** British Columbia Ambulance Service (BCAS) Ambulance Performance Test Criteria E2 Stretcher Retention

- **Alberta:** Alberta Health and Wellness Ambulance Vehicle Standard Code January 2010; Section 17.5 Cot Retention System Test

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How to Meet SAE J3027

U.S.A. SAE J3027 Recommended Practice requires all three elements to be present together:

1. Compliant ambulance cot or transport system

2. Compliant fastening system (cot/litter retention system)

3. Compliant restraint system

Note: *The 35X-ST or POWERFlexx-ST must be equipped with mounting posts to accept the Model 417-3 patient restraint system.*

Ferno SAE J3027 Compliant Systems		
Cot/Transport System	**Fastening System**	**Restraint System**
POWERFlexx®+ST (Serial #15N-325554 or higher)	Stat Trac® 185-86 Stat Trac® 185-91 Stat Trac® 185-96 Stat Trac® 185-103	417-3
PROFlexx® 35X-ST (Serial #15N-325554 or higher)	Stat Trac® 185-86 Stat Trac® 185-91 Stat Trac® 185-96 Stat Trac® 185-103	417-3

1.8 Responsibility of User to Maintain a Safe Fastening System

The Ferno® Stat Trac® Fastening system is designed to securely hold an ambulance cot inside a ground-based ambulance.

The integrity of the fastening system relies heavily on the installer to secure the fastening system to the ambulance in a way that meets or exceeds these guidelines Also, the integrity of the fastening system relies on the user to regularly inspect and maintain the system.

To help the user achieve a compliant system, Ferno strongly recommends:

USER:

1. **Inspect the fastening system a minimum of once each month, or more often with frequent use.** Check under the ambulance to see if exposure to the environment has damaged the support structure, nuts or bolts. Make sure the nuts are tight and secure, while observing Point 2, below. Replace the fastening system if its integrity is in question.

2. **During inspections, make sure all fastening system components are tight, however, DO NOT repeatedly tighten the bolts with powered equipment.** Over time, using powered tools to repeatedly tighten connections can cause damage to the fastening system by compressing the nut and bolt through the backing plate. If inspection indicates the components are "pulling through" the backing plate, **immediately** take the ambulance out of service and install a new fastening system with new support structure.

3. **Consult your installer to ensure your fastening system meets all applicable standards.**

> ⚠ **WARNING**
>
> Improper installation can cause injury. The installer should test your fastening system setup to meet or exceed all applicable guidelines.

2 - OPERATOR FOCUS

2.1 Operator Training

Operator using the Stat Trac:

- must read and understand this manual.

- must have training on proper use of the Stat Trac.

- must have a training on emergency-medical service and emergency patient-handling procedures.

- must have the physical ability to assist the patient.

- must practice with the Stat Trac before using it with a patient.

- must keep training records. For a sample training record sheet, see "Training Record" on page 21.

The **Ferno Injury Free** program from Ferno provides training on nutrition, exercise, management of stress and fatigue, ergonomics, and injury prevention, all from an emergency-medical services perspective.

http://www.fernoems.com/injuryfree

> ⚠ **WARNING**
>
> Untrained operators can cause injury or be injured. Permit only trained personnel to operate the Stat Trac.

Tip

EMT: Injury Free

For training on nutrition, exercise, ergonomics, injury prevention, and more, scan the QR Code below with an internet-connected device.

3 - ABOUT THE STAT TRAC

3.1 Description

Models 185-86, 185-91, 185-96 and 185-103 Stat Trac® Fastening systems (referred to as the Stat Trac in this manual) are devices designed to secure a Ferno cot or transporter inside a ground-based ambulance. See "Fastening System Compatibility" on page 4.

Each Stat Trac is sold with one track and one Installation and Users' Manual. Installation kits are sold separately. An optional installation template is available for easy installation. See "Parts and Service, Accessories" on page 19.

FEATURES

- **Wide-Angle Funnel:** makes loading cots easy

- **Track Loading:** allows straight-in cot loading without cot drift

- **Safety Stop:** holds cot secure inside ambulance while operators unlock the undercarriage during the loading and unloading process

- **Single-Hand Cot Release**

- **Aluminum shell:** impact resistant, easy to clean

- **Easy Removal:** for cleaning

The Stat Trac is for professional use only.

> ⚠ **WARNING**
>
> Improper use can cause injury. Use the Stat Trac only for the purpose described in this manual.

Tip

Integrated Charging System Available Separately

A common Stat Trac accessory (not supplied, available separately) is the Integrated Charging System (ICS), which allows a Ferno® POWERFlexx+ Series Powered Cot to be charged whenever it is secured in the Stat Trac. To purchase the ICS, see "Parts and Service, Accessories" on page 19.

3.2 Compatible Cots/Transporters

The Stat Trac is for use with the following Ferno cots that have been designed specifically for use with the Stat Trac:

- POWERFlexx®+ST
- PROFlexx® Series 35X-ST

Adaptor kits are available to modify Ferno POWERFlexx® and 35X (if not factory-equipped) for use with the Stat Trac. The cot must be serial number 15N-325554 or higher.

3.3 General Specifications

Specifications for the Stat Trac are shown in the table at right. General specifications are rounded. Metric conversions are calculated before rounding the Imperial measurement.

Ferno reserves the right to change specifications without notice. For more information, contact Ferno. See "Ferno Customer Relations" on page 2.

3.4 Using This Manual

In this manual, the term Stat Trac is used to refer to all models of the Stat Trac. When differences exist, the specific model name (Model 185-86, Model 185-91, Model 185-96 or Model 185-103) is used.

3.5 Before Using the Stat Trac

To install the Stat Trac, follow the instructions in the Floor Plate System Installation Manual. As a user, be aware of the following:

- The integrity of the cot-fastening system **relies on the installer** to mount the fastening system to meet or exceed the applicable standards.
- Stat Trac installation requires each bolt and support structure to withstand the forces associated with the standards within the region the ambulance will be operated.
- Inspect the Stat Trac regularly to ensure it meets all required standards required by your local government. See "Inspecting the Stat Trac" on page 17.
- Install a new Stat Trac when remounting an ambulance box. Removing and reinstalling an old Stat Trac can weaken the Stat Trac.
- Replace the Stat Trac if the ambulance is involved in a traffic accident.

⚠️ **WARNING**

An improper cot can cause injury. Use only Ferno cots designed or properly modified for use with the Stat Trac.

Specifications	Imperial	Metric
Length		
Model 185-86	86 in	2184 mm
Model 185-91	91 in	2311 mm
Model 185-96	96 in	2438 mm
Model 185-103	103 in	2616 mm
Width		
Overall	8 in	203 mm
Height		
Overall	3 in	76 mm
Weight		
Model 185-86	55 lb	24.9 kg
Model 185-91	57 lb	25.9 kg
Model 185-96	61 lb	27.7 kg
Model 185-103	65 lb	29.5 kg

Important

Owners of cots in the PROFlexx®, POWERFlexx®, and XCalibur series:

Cots with 6"/152 mm wheels require the Stat Trac to be installed at least 17"/431.8 mm from the side walls. Installing closer than 17"/431.8 mm may not allow clearance for the wheels to swivel during transporter removal.

If you installed a Stat Trac at the old minimum distance prior to June 1, 2000, you must adjust your Stat Trac to the new 17"/431.8 mm minimum wall clearance.

Center-mounted Stat Tracs and those installed 17"/431.8 mm or more from the wall do not require adjustment.

Tip

Integrated Charging System Available Separately

A common Stat Trac accessory (not supplied, available separately) is the Integrated Charging System (ICS), which allows a Ferno® POWERFlexx+ Series Powered Cot to be charged whenever it is secured in the Stat Trac. To purchase the ICS, see "Parts and Service, Accessories" on page 19.

3.6 Components

Length Comparison

Fastener Post (2)

Model 185-86

Fastener Post (2)

Model 185-91

Fastener Post (3)

Model 185-96

Fastener Post (3)

Model 185-103

Mounting Handle

Safety Stop

Funnel

Lock Slot

Bumper

Release Handle

Secondary Release
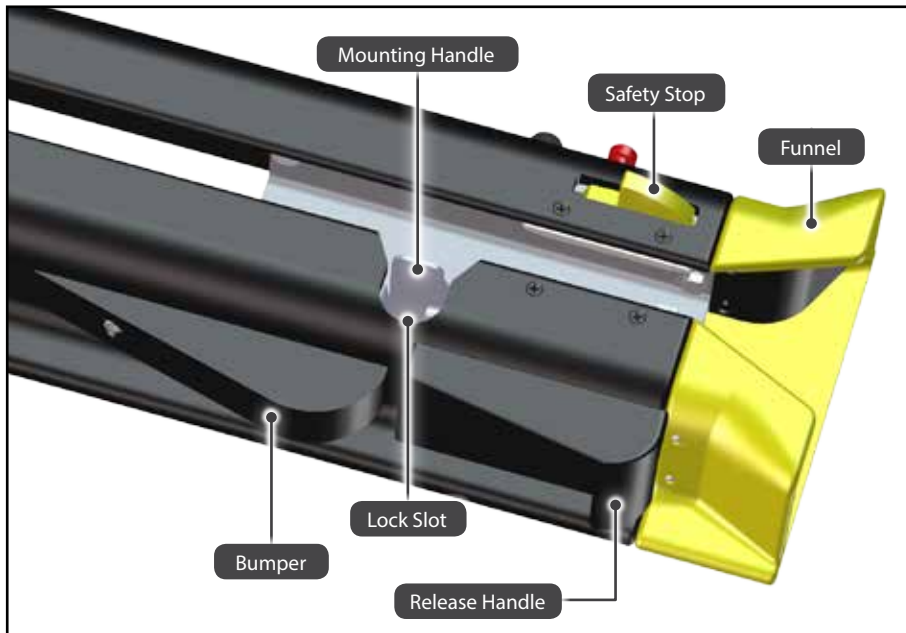
Components Common to All Models (Left, Above)
The only variation between Stat Trac models is the
distance of the components from the funnel

4 - FEATURES

4.1 Mounting Handle

The mounting handle locks the Stat Trac in the ambulance. It is also designed to stop a cot from being loaded when the Stat Trac is not completely secured to the floor and floor plates.

If the cot will not load into the Stat Trac, make sure the mounting handle is engaged. See "Troubleshooting" on page 18. To mount the Stat Trac:

1. Lower the Stat Trac into the floor plates while sliding the Stat Trac toward the front of the ambulance to seat the fastener posts in the floor plates(Figure 1).

2. To lock the Stat Trac in place, swing the mounting handle down and toward the safety stop (Figure 2) until it is parallel with the floor.

3. Verify that the Stat Trac is locked before use. To do this, pull on the track with your hands. The Stat Trac should remain firmly in place.

To un-mount the Stat Trac from the ambulance floor and floor plates:

1. Swing the mounting handle upward, toward the cot lock, to release the Stat Trac from the floor plates (Figure 2).

2. Pull the Stat Trac toward the rear of the ambulance to remove it.
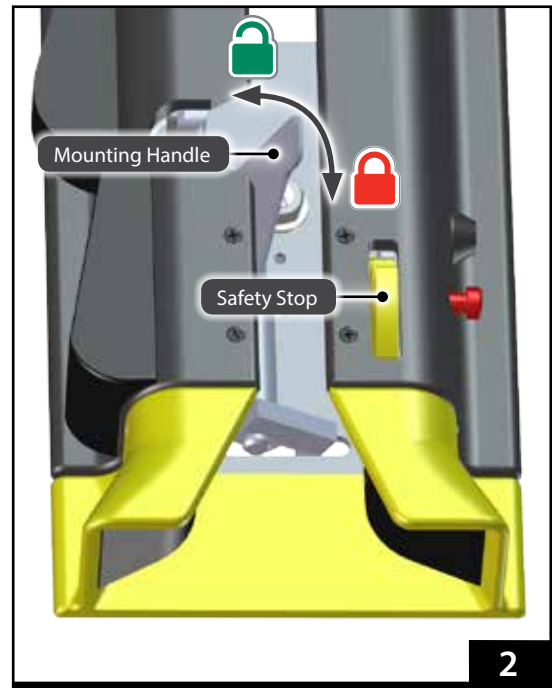

Fastener Post (2 or 3)

Floor Plate (2 or 3)

1

Mounting Handle

Safety Stop

2
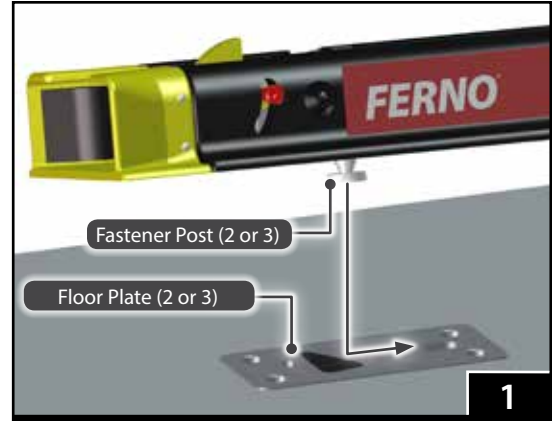
4.2 Cot Lock, Cot Release Handle

The cot lock (Figure 3) holds the cot securely in the Stat Trac during transport in an ambulance and prevents the cot from being removed from the Stat Trac.

Note: *The position of the cot lock and cot release handle varies with the length of the Stat Trac.*

To engage the cot in the cot lock, load the cot into the Stat Trac and slide the control-end loading post to the left, into the cot lock.

To disengage the cot lock, simultaneously pull the cot release handle toward the rear of the ambulance (Figure 3) and pull the cot to the right to position the control-end loading post in the center of the channel.

For complete unloading instructions, see "Unloading a Cot" on page 13.

Cot Lock Slot

Cot Release Handle

3
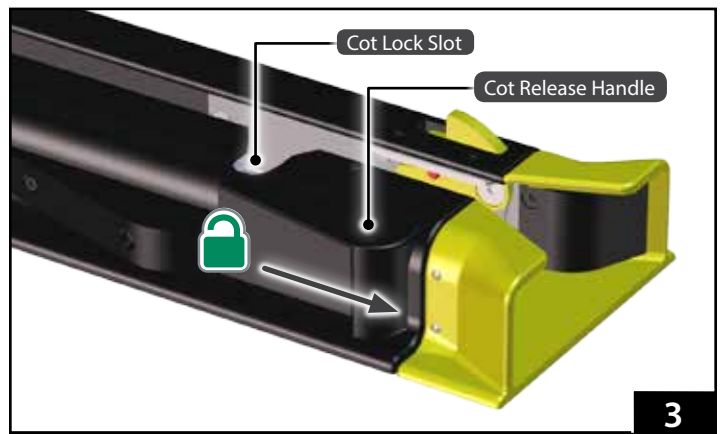
4.3 Safety Stop

The safety stop (Figure 4) holds the loading end of the cot securely in the ambulance while the operators unlock the undercarriage during loading or unloading. At the proper time, the loading-end operator uses one of three release mechanisms to disable the safety stop.

For complete loading and unloading instructions, see "Using the Stat Trac" on page 12.

USING THE SAFETY STOP DURING LOADING

When loading a cot into the ambulance, the operators:

1. Roll the loading end of the cot into the Stat Trac until the loading-end loading post passes the safety stop.

2. Roll the cot out of the ambulance until it stops on the safety stop. Verify the cot is securely held by the safety stop before raising the cot legs or undercarriage.

USING THE SAFETY STOP DURING UNLOADING

Follow the instructions in "Using the Stat Trac" on page 12. Be aware of the following:

1. During unloading, **do not** operate the cot-mounted release lever or handle. Instead, pull the cot out of the ambulance until the safety stop catches the cot's loading-end loading post (Figure 4).

2. Follow your cot users' manual instructions to lower and lock the legs or undercarriage.

3. Push the cot into the ambulance slightly (1-2 inches or 25-50 mm) to allow the safety stop to swing down when released.

4. Release the cot from the safety stop using one of the following methods:

   ○ Operate the cot-mounted release handle or release lever.

   ○ Operate the Stat Trac-mounted secondary release handle (see below).

   ○ While operating one of the release mechanisms listed above, roll the cot out of the Stat Trac.

4.4 Secondary Release

The secondary release (Figure 5) provides a secondary location to release the cot from the Stat Trac.

If the operators do not wish to use the release handle or release lever mounted to the cot as shown on page 13, the loading-end operator can use the secondary release (Figure 5).

After the cot has been rolled against the safety stop (see "Safety Stop" on page 11), the operator moves the secondary release down to lower the safety stop.

Safety Stop (Yellow)

4

Important

Operating the cot-mounted release early can damage the cot-mounted release mechanism. To avoid damage, do not activate the cot-mounted release until **after the cot contacts the safety stop** and the cot has been lowered onto its transport wheels.

Tip

Engaging the Safety Stop

The safety stop holds the cot secure while the operators unlock and raise or lower the undercarriage during loading and unloading.
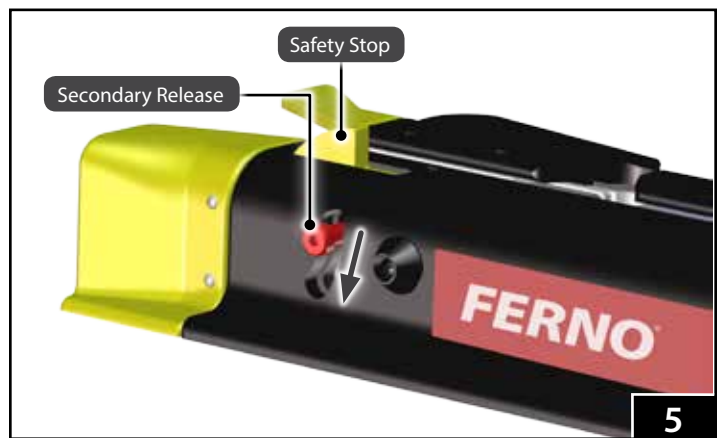
During the cot loading and unloading processes, roll the cot against the safety stop. Verify the cot is securely held by the Stat Trac safety stop **before** the undercarriage is raised or lowered.

Safety Stop

Secondary Release

5

5 - USING THE STAT TRAC

5.1 Compatible Cots

The Stat Trac is for use only with Ferno cots and transporters. See "Fastening System Compatibility" on page 4 and "Compatible Cots/Transporters" on page 8.

<table>
<tr><td>⚠ WARNING</td></tr>
<tr><td>Improper operation can cause injury. Operate the Stat Trac only as described in this manual.

An improper cot can cause injury. Use only Ferno cots designed or properly modified for use with the Stat Trac.</td></tr>
</table>

5.2 Loading a Cot

To secure a cot in the Stat Trac:

1. If the ambulance has a folding step bumper, raise it.

2. Place the cot in a loading position (see the cot Users' Manual for instructions).

3. Roll the cot to the open rear doors of the ambulance and align the loading-end loading post on the cot with the Stat Trac (Figure 6).

4. Using the Stat Trac funnel as a guide, roll the cot into the ambulance until the loading-end loading post passes the safety stop.

5. Roll the cot out of the ambulance until it stops against the safety stop. This verifies the cot is held securely before the operators unlock the cot undercarriage/legs.

6. Keeping the cot level with the ambulance floor, fold the cot undercarriage as instructed in the cot Users' Manual and begin pushing the cot into the ambulance and Stat Trac.

7. While continuing to keep the cot level with the ambulance floor, align the cot's control-end loading post with the funnel and push the cot into the Stat Trac as far as possible.

8. Slide the control end of the cot to the left to engage the control-end loading post in the cot lock (Figure 7).

Tip

Engaging the Safety Stop

The safety stop holds the cot secure while the operators unlock and raise or lower the undercarriage/legs during loading and unloading.

The operators should roll the cot firmly against the safety stop. This confirms to the operators that the cot is held securely by the safety stop **before** the undercarriage/legs are raised or lowered.

Cot Loading-end Loading Post

6

Cot Control-end Loading Post Shown in Locked Position

7

5.3 Unloading a Cot

To release a cot from the Stat Trac, first raise the ambulance folding step bumper, if present.

1. **Control-end Operator:** Pull the Stat Trac cot release handle toward the rear of the ambulance (Figure 8). While holding the release handle, complete Step 2.

2. **Control-end Operator:** Slide the control end of the cot to the right to free it from the cot lock (Figure 8).

3. **Both Operators:** Pull the cot out of the ambulance until the safety stop engages the cot loading-end loading post.

4. **Both Operators:** Follow the instructions in the cot Users' Manual to properly unfold and lock the undercarriage/legs of your cot.

5. Verify that the undercarriage/legs are locked before continuing.

6. **Both Operators:** Push the cot into the ambulance slightly (1-2 inches or 25-50 mm) to allow the safety stop to swing down when released.

7. **Loading-end Operator:** Use the cot-mounted fastener release handle on the cot to disengage the cot from the safety stop.

8. Release the cot from the safety stop using one of the following methods:

   ○ Operate the cot-mounted release handle (Figure 9) or release lever (Figure 10).

   ○ Operate the Stat Trac-mounted secondary release handle. See "Secondary Release" on page 11.

9. **Both Operators:** While the Loading-end Operator uses one of the release mechanisms listed above, roll the cot out of the Stat Trac. Let go of the release mechanism after the cot loading-end loading post moves beyond the Stat Trac safety stop.

> **Tip**
>
> **Engaging the Safety Stop**
>
> The safety stop holds the cot secure while the operators unlock and raise or lower the undercarriage/legs during loading and unloading.
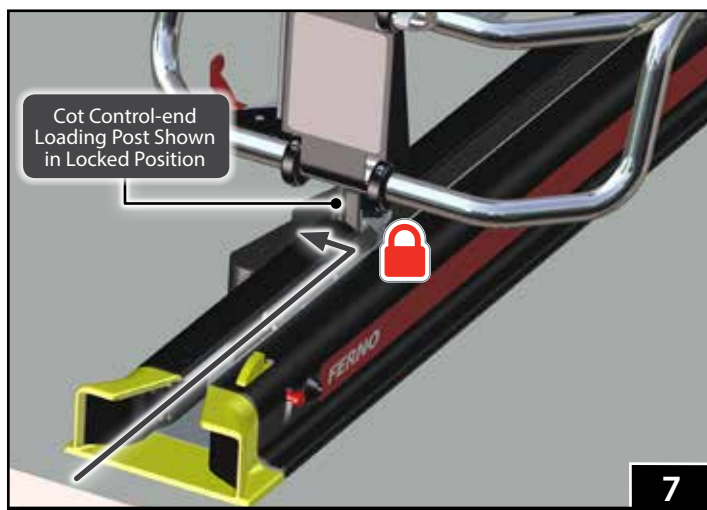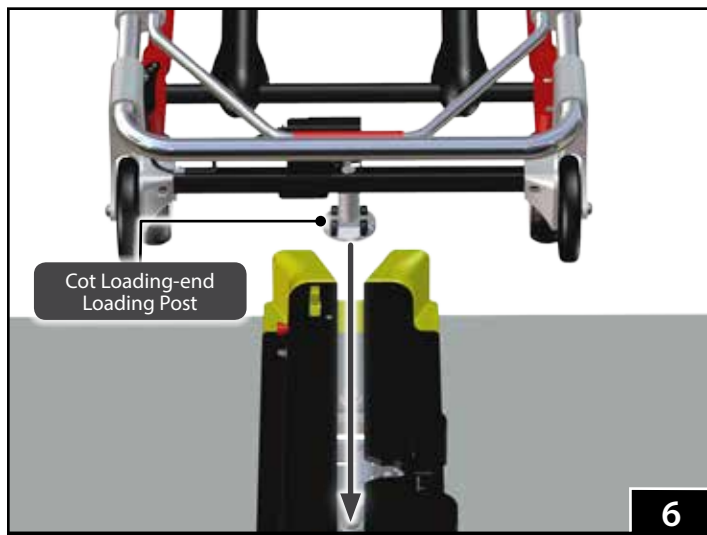>
> The operators should roll the cot firmly against the safety stop. This confirms to the operators that the cot is held securely by the safety stop **before** the undercarriage/legs are raised or lowered.

Important

Operating the cot-mounted release early can damage the cot-mounted release mechanism. To avoid damage, do not activate the cot-mounted release until **after the cot contacts the safety stop** and the cot has been lowered onto its transport wheels.

Fastener Release Handle
1
2
8

Fastener Release Handle
9

Fastener Release Lever
10
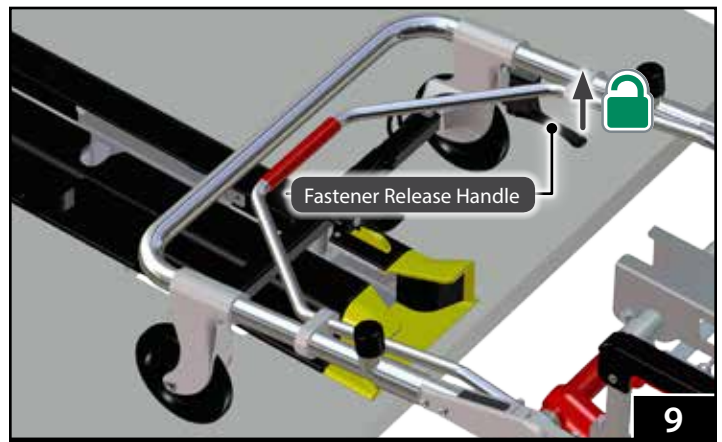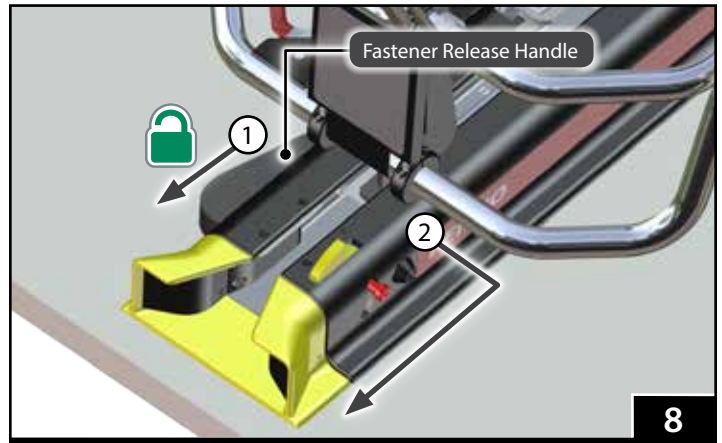
5.4 Checking the Stat Trac With the Ambulance Floor

The Stat Trac is adjustable to account for dips, swells, or other imperfections in the ambulance floor. Before making adjustments, check the Stat Trac with the floor.

MOUNT THE STAT TRAC TO THE FLOOR PLATES

1. Lower the Stat Trac into the floor plates while sliding the Stat Trac toward the front of the ambulance to seat the fastener posts in the floor plates (Figure 11).

2. To lock the Stat Trac in place, swing the mounting handle down and toward the safety stop (Figure 12) until it is parallel with the floor.

3. Verify that the Stat Trac is locked. To check, pull on the track with your hands. The Stat Trac should remain firmly in place.

4. If there is any difficulty mounting the Stat Trac to the floor plates or locking the mounting handle, unlock and remove the Stat Trac from the floor plates. Inspect the fastener posts inside the track to determine if the ends are slotted (capable of being adjusted with a slotted [flat-blade] screwdriver) (Figure 13).

FASTENER POSTS ARE NOT SLOTTED

If the fastener posts are not slotted, they are not adjustable. However, you can adjust the fastener-post brackets. See "Adjusting the Fastener-Post Brackets" on page 16. If the Stat Trac cannot be adjusted to fit the floor plates, see "Troubleshooting" on page 18.

FASTENER POSTS ARE SLOTTED

If the fastener posts are slotted (Figure 13) you can adjust both fastener-post height and the fastener-post brackets. If adjustment is needed:

1. Adjust the height of the fastener posts first. See "Adjusting the Fastener Posts" on page 15.

2. Adjust the fastener-post brackets second. See "Adjusting the Fastener-Post Brackets" on page 16.

3. If the Stat Trac cannot be adjusted to fit the floor plates, see "Troubleshooting" on page 18.

Fastener Post (2 or 3)

Floor Plate (2 or 3)

11

Mounting Handle

Safety Stop

12

Post with Slotted End

13
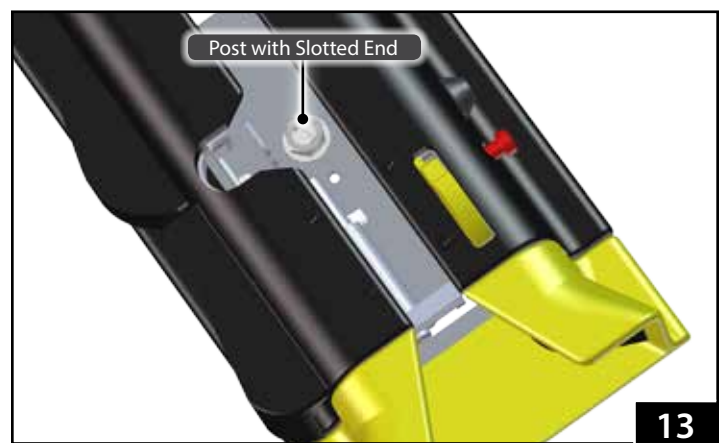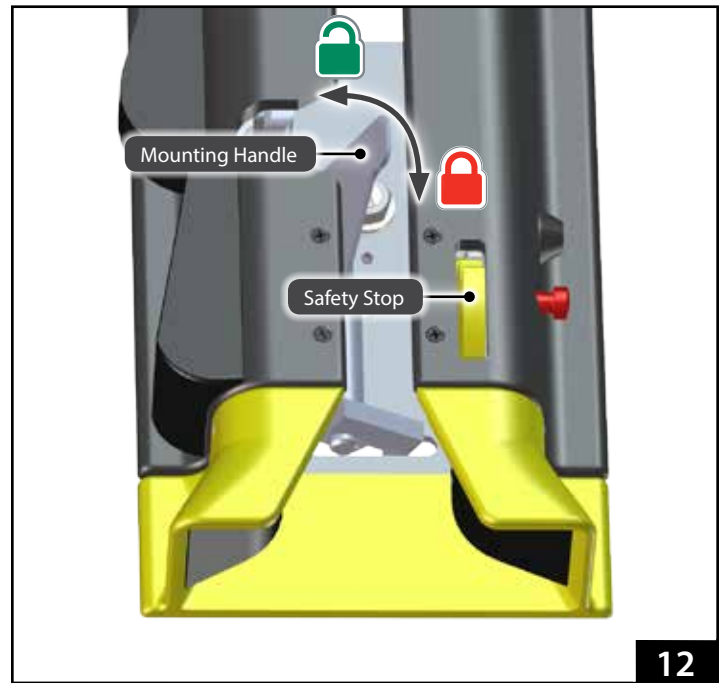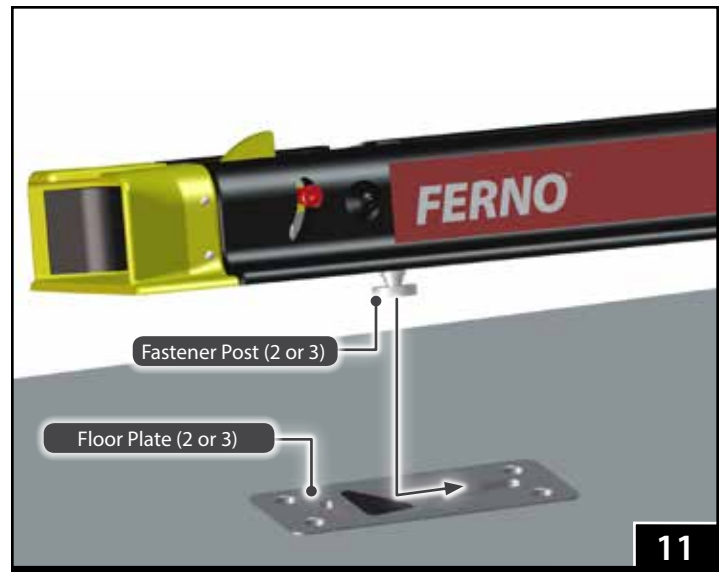
5.5 Adjusting the Fastener Posts

Items Needed:

Stat Trac	1 ea.
Slotted (Flat-Blade) Screwdriver	1 ea.
Socket Wrench with 3/4" Socket	1 ea.
Deep-Well Socket or Socket Extension	1 ea.

The slotted fastener posts (Figure 14) extend both below and into the center of the Stat Trac to secure the Stat Trac to the ambulance floor. The depth of the fastener posts can be adjusted using a slotted screwdriver and 3/4" socket with socket wrench.

Note: *A deep-well socket or socket wrench with an extension is required.*

1. Use the 3/4" socket wrench (Figure 15) to loosen and raise each fastener-post nut (Figure 14) until it is at the end (top) of the fastener post. Repeat for the remaining nut(s).

2. Use the slotted screwdriver to lower (turn clockwise) each fastener post until the fastener posts fit into the floor plates.

3. Mount the Stat Trac to the floor plates. See "Mount the Stat Trac to the Ambulance Floor" on page 14.

4. With the Stat Trac still locked in the floor plates, use the screwdriver to raise each fastener post (turn counter-clockwise) until the fastener posts stop against the top inside of the floor plates. Do not overtighten.

5. Using the screwdriver to hold the position of the fastener posts if needed, hand-tighten the nuts against the welded insert in the channel (Figure 14) to set the fastener posts at the correct height for your ambulance. (Note that the welded insert is not removable).

6. Use the 3/4" socket wrench to finish tightening each nut. Tighten until snug.

7. Inspect the nut and fastener post after you have finished the adjustment. The fastener posts should be fully engaged with the nut, with at least one or two threads showing above the nut. If the fastener post does not fully engage the nut (some of the threads inside the nut are visible) adjust the installation.

   For additional methods to adjust the Stat Trac, see "Adjusting the Fastener-Post Brackets" on page 16 and "Troubleshooting" on page 18.

8. Un-mount and remount the Stat Trac to the ambulance floor and floor plates. Verify the installation is correct. Inspect the floor plates and Stat Trac for binding, friction, wedging, or loose/wobbly mounting. If the Stat Trac shows any of these symptoms, see "Troubleshooting" on page 18.

Slot

Nut

Welded Insert (Not Removable)

14

15

Tip
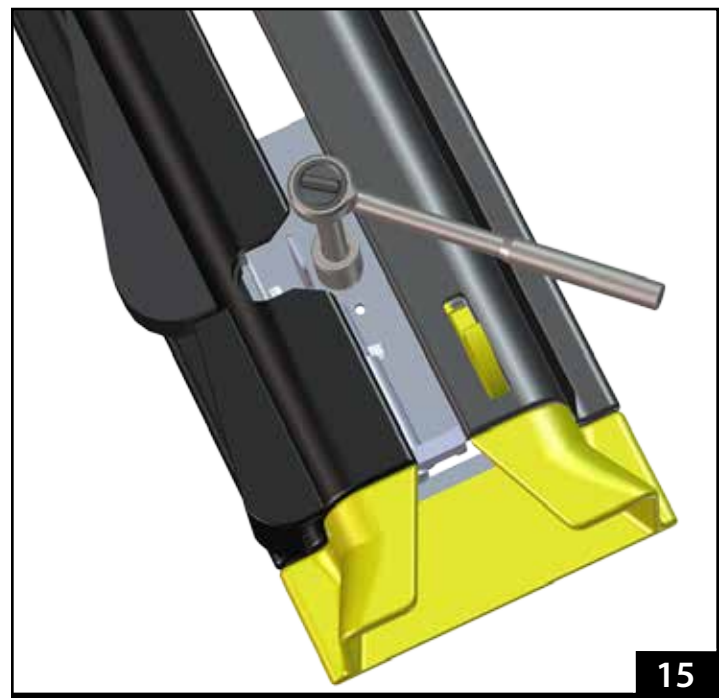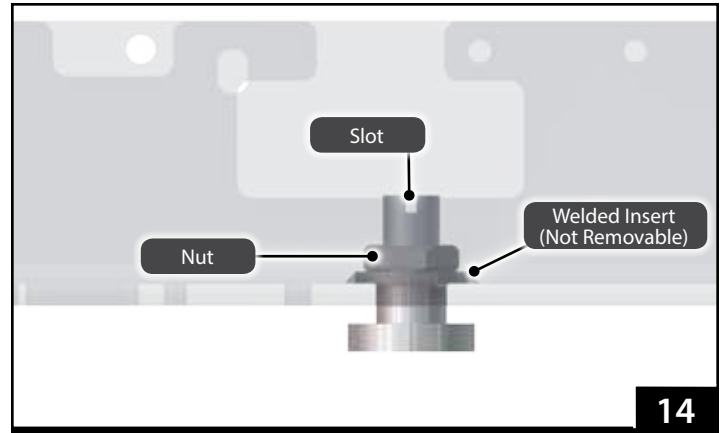
Tighten Until Snug

Tighten the fastener posts nuts until snug. Overtightening may cause difficulty in un-mounting and mounting the Stat Trac to the ambulance floor.

5.6 Adjusting the Fastener-Post Brackets

Use (Figure 16) for reference as you loosen, adjust, and tighten the fastener-post brackets.

Note: *The screws are attached with Loctite® threadlocker. The screws may be difficult to loosen, but do not apply heat.*

1. Unlock the Stat Trac from the floor.

2. **End-Cap Bracket:** Use a 1/2" socket or angled open wrench to **loosen but do not remove** the four bracket hex screws.

3. **Center Bracket: (**Models 185-96 and 185-103 only): Use a 7/16" socket or angled open wrench to **loosen but do not remove** the four hex screws on the center bracket. Use a 5/32" Allen wrench to **loosen but do not remove** the two Allen screws on the cot-lock side of the Stat Trac.

4. **Funnel-End Bracket:** Use a 7/16" socket or angled open wrench to **loosen but do not remove** the seven hex screws on the funnel-end bracket. There are three screws on the side with the safety stop, and four on the cot-lock side. Use a 5/32" Allen wrench to **loosen but do not remove** the four Allen screws holding the plastic funnel guides.

> ⚠️ **WARNING**
>
> **Improper adjustment can cause injury and damage. Do not loosen the fastener posts. If needed, adjust only the height of the fastener-post brackets.**

5. With all screws loosened, mount the Stat Trac to the floor plates. See "Mount the Stat Trac to the Ambulance Floor" on page 14. If the Stat Trac cannot be mounted, contact Ferno. See "Ferno Customer Relations" on page 2.

6. **All models:** With the Stat Trac mounted to the floor plates, tighten all hex and Allen screws to set the position of the fastener-post brackets and guides.

7. **All models:** Unlock and remove the Stat Trac from the floor plates.

8. **All models:** Working with **only one screw at a time**, remove one screw from the bracket, clean the threads with acetone or a Loctite® cleaner/primer (not provided), then apply 1-2 drops of Loctite® 242 (blue) threadlocker (provided) and immediately reinstall the screw. Repeat for all bracket hex and Allen screws.

End-Cap Bracket
Hex Screw (x4)

**Center Bracket
(185-96, 185-103 only)**
Hex Screw (x6)
Allen Screw (x2)

Funnel Bracket
Hex Screw (x7)
Allen Screw (x4)

16
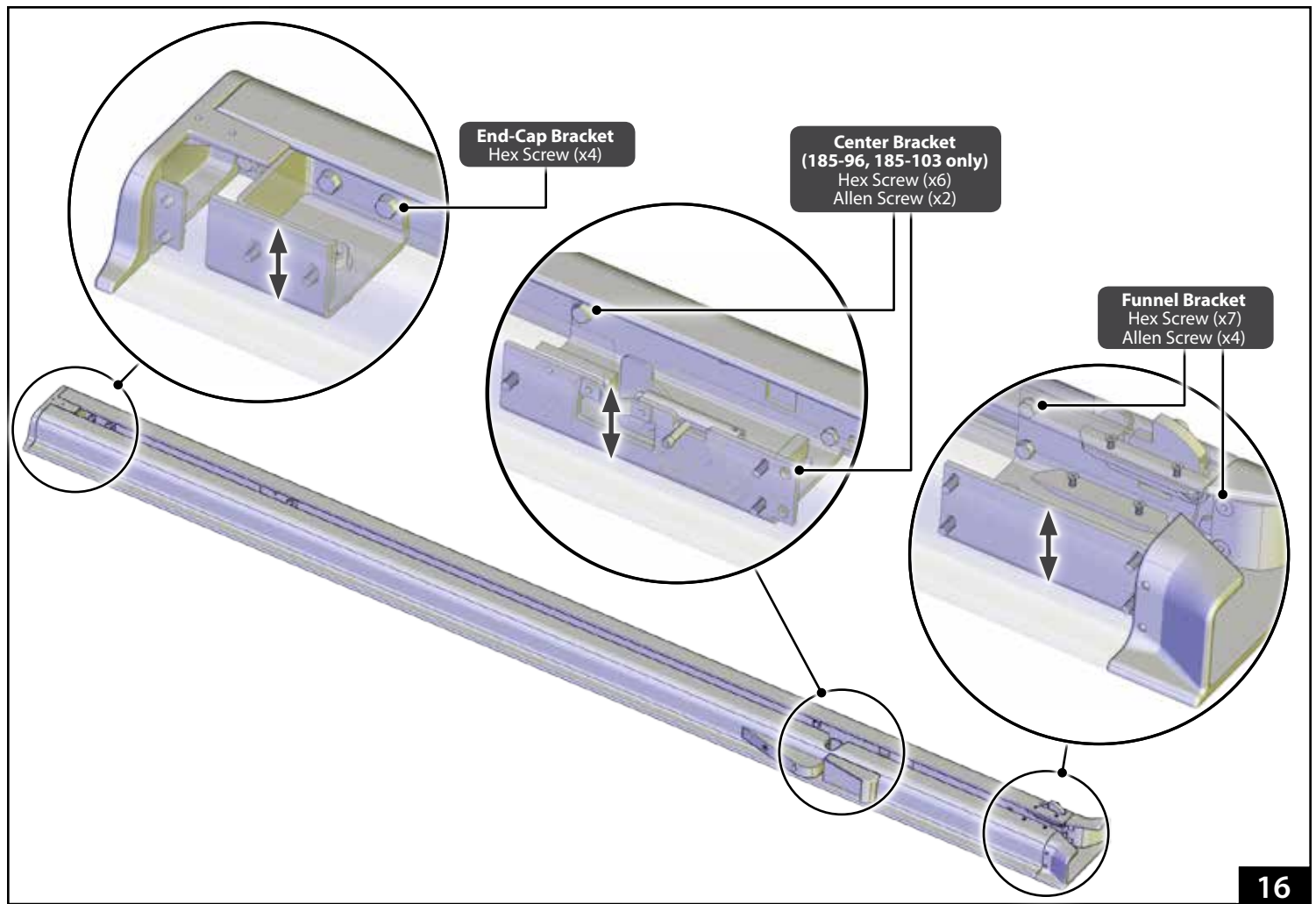
6 - MAINTENANCE

6.1 Maintenance Schedule

The Stat Trac requires regular maintenance. Set up and follow a maintenance schedule. The table at right represents minimum intervals for maintenance.

Keep maintenance records. For a sample record sheet, see "Maintenance Record" on page 20.

When using maintenance products, follow the manufacturers' directions and read the manufacturers' material safety data sheets.

6.2 Disinfecting the Stat Trac

Wipe all surfaces with disinfectant. Follow the disinfectant manufacturer's instructions for application method and contact time. Ferno recommends you inspect the Stat Trac for damage as you disinfect.

6.3 Cleaning the Stat Trac

1. Remove the Stat Trac from the ambulance.

2. Hand clean all surfaces of the Stat Trac with warm water and a mild detergent.

3. Rinse with warm, clear water. Dry the Stat Trac with a towel or allow it to air-dry.

6.4 Inspecting the Stat Trac

Have your service's equipment maintenance personnel inspect the Stat Trac regularly. Follow the checklist at right and operate the Stat Trac through all its functions as described in this manual. See "Responsibility of User to Maintain a Safe Fastening System" on page 6.

If inspection shows damage or excessive wear, remove the Stat Trac from service until repair is made. See "Troubleshooting" on page 18 or "Parts and Service, Accessories" on page 19.

⚠ WARNING

Improper maintenance can cause injury. Maintain the Stat Trac only as described in this manual.

Minimum Maintenance	Each Use	As Needed	Monthly
Disinfecting (this page)	●		
Cleaning (this page)		●	
Inspecting (this page)		●	●

Important

Disinfectants and cleaners containing bleach, phenolics, or iodines can cause damage. Do not use products containing these chemicals.

Using abrasive cleaning compounds or applicators on the Stat Trac can cause damage. Do not use abrasive materials to clean the Stat Trac.

Make sure all connections are tight, but **do not overtighten the hardware**. Overtightening, especially with powered tools, can cause the nut and bolt beneath the ambulance floor to pull through the support structure.

If inspection indicates the components are pulling through the support structure, take the Stat Trac out of service immediately and install a new Stat Trac with new support structure.

Inspection Checklist

● Are all components present?

● Is the Stat Trac free of excessive wear?

● Are all parts in good condition (no cracks, corrosion, or damage)?

● Do all moving parts operate smoothly and properly?

● Does the Stat Trac lock properly to the floor plates?

● Does the cot load and unload properly?

● Does the cot lock properly into the Stat Trac?

● Monitor the ambulance floor, including beneath the ambulance, and check the integrity of the fastening system. Is the system worn? Has exposure to the environment caused noticeable damage?

● Is all the hardware tight? (Reminder: Do not overtighten the hardware.)

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7 - TROUBLESHOOTING

7.1 Troubleshooting Table

If the corrective actions listed here do not solve the problem, contact Ferno or your ambulance manufacturer for assistance. See "Ferno Customer Relations" on page 2.

Problem	Cause	Corrective Action
Wedging	1) Stat Trac is being inserted into the floor plates incorrectly.	1) Load both ends of the Stat Trac in the floor plates at the same time.
	2) One of the floor plates is installed at a different level than the other(s).	2a) Adjust the Stat Trac. See "Adjusting the Fastener Posts" on page 15 and "Adjusting the Fastener-Post Brackets" on page 16. 2b) Remount the floor plates so they are level or 1/16"/1.6 mm above the floor.
Loose Mounting (Vertical looseness)	1) The floor plates are loose.	1) Tighten the floor plate socket-head cap screws.
	2) The fastener posts are not adjusted properly.	2) Adjust the Stat Trac. See "Adjusting the Fastener Posts" on page 15 and "Adjusting the Fastener-Post Brackets" on page 16.
Wobbly Mounting (Side-to-side looseness)	The floor plates are more than 1/16"/1.6 mm inch above the floor.	Take out the floor plate and remove shim(s) as needed. Reinstall the floor plates and remaining shim(s). Adjust the Stat Trac. See "Adjusting the Fastener Posts" on page 15 and "Adjusting the Fastener-Post Brackets" on page 16.
Stat Trac Will Not Lock Into the Floor Plates	Dirt or debris is inside the floor plate.	Remove debris and clean the floor plates and/or Stat Trac.
	The floor of the ambulance is not level.	Adjust the Stat Trac. See "Adjusting the Fastener Posts" on page 15 and "Adjusting the Fastener-Post Brackets" on page 16.

8 - PARTS AND SERVICE, ACCESSORIES

8.1 U.S.A. and Canada

In the United States and Canada, to order parts or for professional repair, contact EMSAR® – the only agent authorized by Ferno to manage, service, and repair Ferno products.

Telephone (Toll-Free)	1.800.73.EMSAR
Telephone	1.937.383.1052
Fax	+1.937.383.1051
Internet	www.EMSAR.com

> ⚠ **WARNING**
>
> **Improper parts and service can cause injury. Use only Ferno parts and Ferno-approved service on the Stat Trac.**
>
> **Modifying the Stat Trac can cause injury and damage. Use the Stat Trac only as designed by Ferno.**

8.2 Worldwide

To order Ferno parts, and for professional repair, contact your Ferno distributor. Your distributor is the only agent authorized by Ferno to manage, service, and repair Ferno products.

8.3 Retrofitting a Cot for Stat Trac

If your cot does not have the required Stat Trac components (loading posts and release handle or lever), the cot must be retrofitted to make it compatible with the Stat Trac.

Contact EMSAR (above) or Ferno (page 2) for information.

8.4 Accessories

Ferno offers a full line of accessories approved for installing the Stat Trac. Always follow the instructions packed with accessories. Keep the instructions with this manual.

Ferno also offers a full line of emergency products for the EMS professional. Contact Ferno or your Ferno distributor for product information. See "Ferno Customer Relations" on page 2.

8.5 Parts List

REQUIRED COMPONENTS

Kit #	Description	Use With
056-7056	Floor Plate/Shim Kit (2 each)	185-86, 185-91
056-7058	Floor Plate/Shim Kit (3 each)	185-96, 185-103

INSTALLATION TEMPLATES

Kit #	Description	Use With
082-2471	Installation Template	185-86
082-2479	Installation Template	185-91
082-2472	Installation Template	185-96
082-2473	Installation Template	185-103

STAT TRAC ACCESSORIES

Kit #	Description	Use With
082-2407	Integrated Charging System (ICS) for Stat Trac[1]	All
081-9540	Safety Yellow Touch-up Paint	All
081-9977	Black Touch-up Paint	All
056-7055	Beauty Ring Kit	185-86, 185-91
056-7061	Beauty Ring Kit	185-96
056-7062	Beauty Ring Kit	185-103
056-7057	Deluxe Retrofit Install. Kit[2]	185-86, 185-91
056-7060	Deluxe Retrofit Install. Kit[2]	185-96
056-7059	Deluxe Retrofit Install. Kit[2]	185-103

Note: [1] *The ICS accessory listed is the module that attaches to the Stat Trac. Additional components are needed for a complete ICS cable and charging system. Contact Ferno for details.*

Note: [2] *The three Deluxe Retrofit Installation Kits include plastic covers to cover mounting points for a Ferno® Model 175 fastening system plus shims and beauty rings for use with the Stat Trac floor plates.*

MAINTENANCE RECORD

Date	Maintenance Performed	By

TRAINING RECORD

Date	Printed Name	Signature	Training Method			Trainer Initials
			Read Manual	Video/ Online	Hands-On	

MAINTENANCE RECORD

Date	Maintenance Performed	By

TRAINING RECORD

Date	Printed Name	Signature	Training Method			Trainer Initials
			Read Manual	Video/ Online	Hands-On	