



MODEL 87



MODEL 88-H



MODEL 87-HCCT

Models 87 and 88 Series Church Trucks Model 87-HCCT (Cemetery Church Truck)

March 2011 GLO
Pub. No. 234-0038-06



*Read this Manual
and Retain for
Future Reference*

Ferno Technical Support

Customer service and product support are important aspects of each Ferno product. Please have the product serial number available when calling, and include it in all written communications. For technical support questions:

Telephone (Toll-free)	1.800.733.3766 ext. 1010
Telephone	1.937.382.1451 ext. 1010
Email	quality.products@ferno.com

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:

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70 Weil Way

Wilmington, Ohio 45177-9371, U.S.A.

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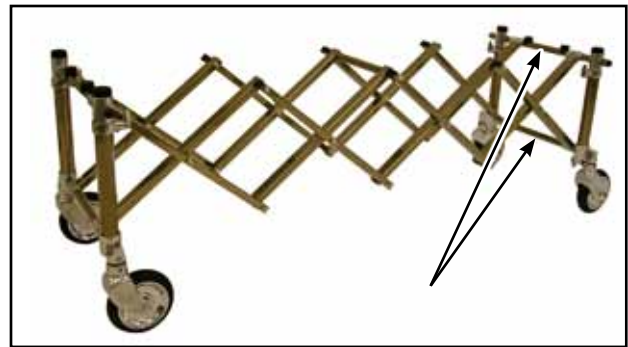
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Serial Number _____

Location: On an end crosstube (all models).



USERS' MANUAL
To request additional free users' manuals, contact Ferno Customer Relations, your Ferno distributor, or visit www.ferno.com.

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.

Proprietary Notice

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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. It is recommended that training on the proper use of this product 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.

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1 - SAFETY INFORMATION

1.1 Warning

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

WARNING

Untrained operators can cause injury or be injured. Permit only trained personnel to operate the truck.

Improper use of the truck can cause injury. Use the truck only for the purpose described in this manual.

Improper operation can cause injury. Operate the truck only as described in this manual.

Helpers can cause injury or be injured. Maintain control of the truck and direct all helpers.

Using the Model 87-HCCT truck/casket combination on a slope steeper than 15° can cause the truck to tip, resulting in injury or damage. Use the truck/casket on level surfaces whenever possible, and never on a slope steeper than 15°.

An unattended truck/casket combination can move or be moved and cause injury or damage. Remain with the truck/casket and maintain control of it at all times.

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

Attaching improper items to the truck can cause injury. Use only Ferno-approved items on the truck.

Improper parts and service can cause injury. Use only Ferno parts and Ferno-approved service on the truck.

Modifying the truck can cause injury and damage. Use the truck only as designed by Ferno.

1.2 Bloodborne Disease Notice

To reduce the risk of exposure to bloodborne diseases such as HIV-1 and hepatitis when using the product, follow the disinfecting and cleaning instructions in this manual.

1.3 Important

Important notices emphasize important usage or maintenance information.

Important

1.4 Symbol Glossary

The symbols defined below are used on the product and/or in this users' manual. Ferno uses symbols recognized by the International Standards Organization (ISO), American National Standards Institute (ANSI) and the mortuary services industry.

General Warning
of Potential Injury

Load Limit

Read the
Users' Manual

Unlocked Locked

Lubricate

Do Not
Lubricate

Product Meets
European Union
Standards

2 - OPERATOR TRAINING AND SKILLS

2.1 Training

Operator trainees need to:

- read and understand this manual.
- be trained on the use of the truck.
- practice with the truck before using it in service.
- record their training information. A sample training record sheet is provided on page 16.

2.2 Skills

Operators using the truck need:

- a working knowledge of mortuary-service procedures
- a complete understanding of the procedures described in this manual.

WARNING

Untrained operators can cause injury or be injured. Permit only trained personnel to operate the truck.

3 - ABOUT THE TRUCKS


3.1 Description

The church trucks and the cemetery church truck (called the trucks or truck in this manual) are designed to display and transport a casket. The cemetery church truck can be used at graveside.

The trucks are constructed of round and rectangular aluminum tubing with a protective anodized finish. Their X-frame undercarriages can be locked in four length positions to accommodate a wide range of casket sizes.

⚠ WARNING

Improper use of the truck can cause injury. Use the truck only for the purpose described in this manual.



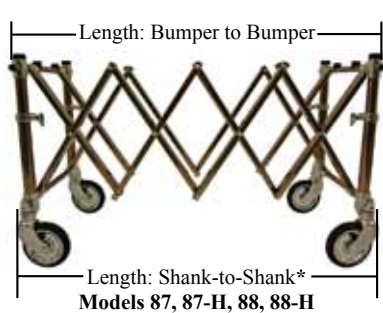
**1000 lb
454 kg**

LOAD LIMIT

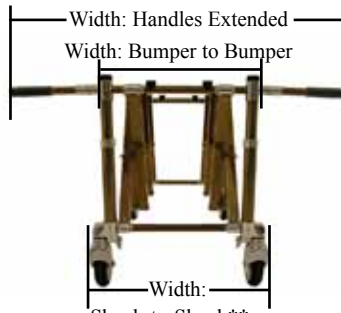
Inspect the truck if the load limit has been exceeded (See *Inspecting the Truck*, page 11).

3.2 General Specifications

	Model 87	Model 87-H	Model 87-HCCT	Model 88	Model 88-H
Length (bumper to bumper)					
Folded	6 in. (159 mm)	6 in. (159 mm)	7 in. (165 mm)	6 in. (159 mm)	6 in. (159 mm)
Position 1	19 in. (502 mm)	19 in. (502 mm)	19 in. (489 mm)	16 in. (406 mm)	16 in. (406 mm)
Position 2	30 in. (768 mm)	30 in. (768 mm)	30 in. (749 mm)	24 in. (600 mm)	24 in. (600 mm)
Position 3	50 in. (1270 mm)	50 in. (1270 mm)	50 in. (1276 mm)	38 in. (972 mm)	38 in. (972 mm)
Fully Extended	61 in. (1549 mm)	61 in. (1549 mm)	61 in. (1556 mm)	47 in. (1181 mm)	47 in. (1181 mm)
Width					
Bumper to Bumper	18 in. (457 mm)	18 in. (457 mm)	18 in. (457 mm)	18 in. (457 mm)	18 in. (457 mm)
Handles Extended	n/a	42 in. (1054 mm)	42 in. (1054 mm)	n/a	39 in. (991 mm)
Height					
Folded	29 in. (743 mm)	29 in. (743 mm)	33 in. (826 mm)	29 in. (743 mm)	29 in. (743 mm)
Fully Extended	22 in. (559 mm)	22 in. (559 mm)	25 in. (641 mm)	22 in. (559 mm)	22 in. (559 mm)
Wheel Size	6 in. (152 mm)	6 in. (152 mm)	8 in. (203 mm)	6 in. (152 mm)	6 in. (152 mm)
Swivel-Wheel Locks	4	4	n/a	4	4
Wheel Locks	n/a	n/a	2	n/a	n/a
Weight	36 lb (16 kg)	38 lb (17 kg)	59 lb (27 kg)	32 lb (14 kg)	34 lb (15 kg)
Load Limit	1000 lb (454 kg)	1000 lb (454 kg)	1000 lb (454 kg)	1000 lb (454 kg)	1000 lb (454 kg)

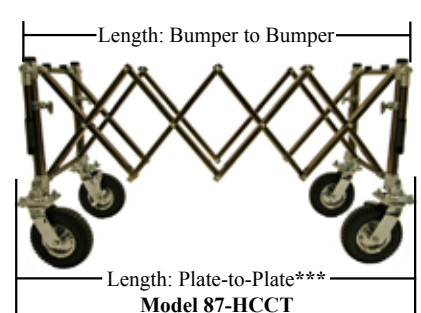


Models 87, 87-H, 88, 88-H



Models 87, 87-H, 88, 88-H

(Model 87-HCCT not shown; see below****)



Model 87-HCCT

*Length shank-to-shank is approximately 1 in. (25.4 mm) greater than length bumper-to-bumper. **Width shank-to-shank is approximately 4 in. (102 mm) greater than width bumper-to-bumper. ***Length plate-to-plate is approximately 3 in. (76.2 mm) greater than length bumper-to-bumper.

****Model 87-HCCT: Width plate-to-plate is approximately 6 in. (152.4 mm) greater than width bumper-to-bumper.

Specifications are rounded to the nearest whole number. Metric conversions are calculated before rounding the Imperial measurements.

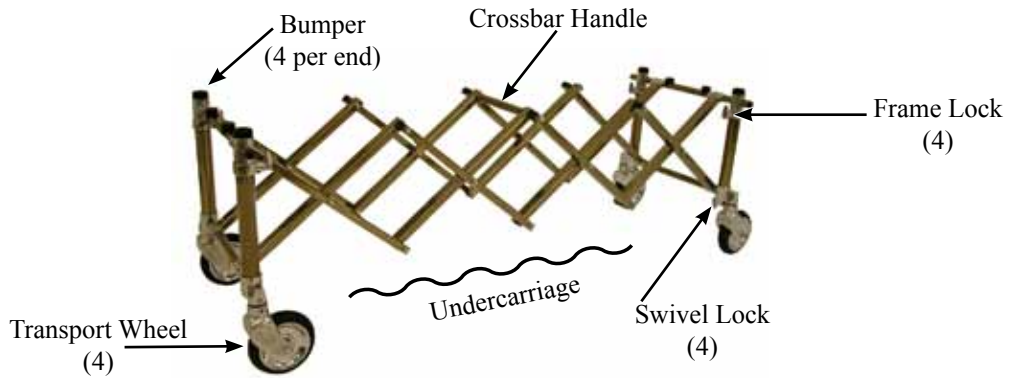
Ferno reserves the right to change specifications without notice.



3.3 Components

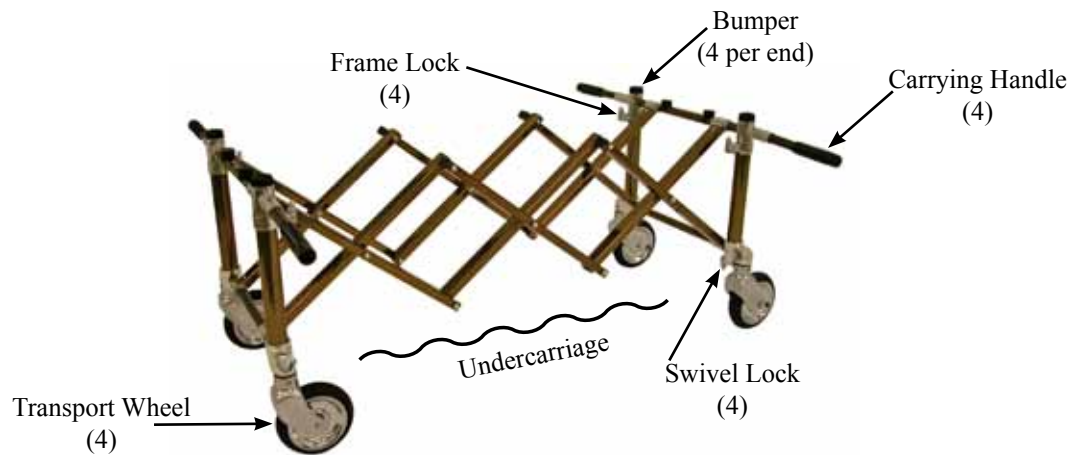
MODEL 87

Model 87-H: same as Model 87 but with four fold-out handles

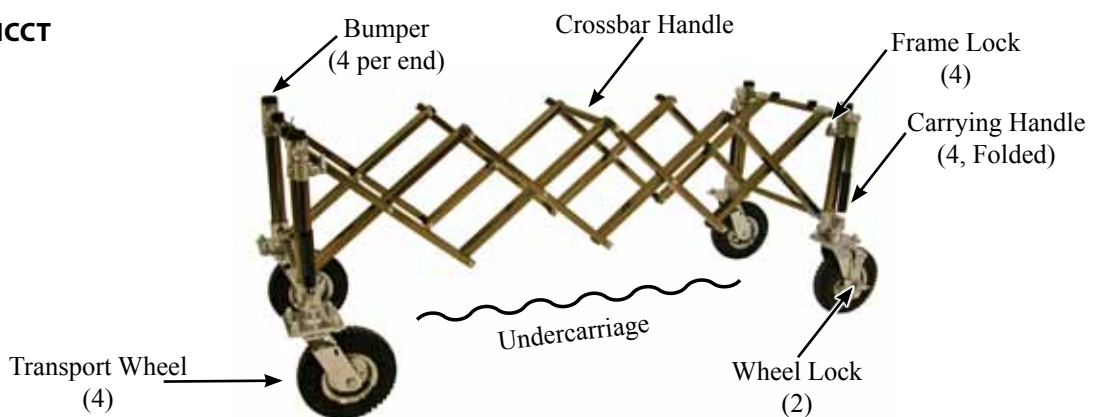


MODEL 88-H

Model 88: same as Model 88-H but no fold-out handles.



MODEL 87-HCCT

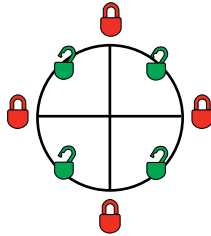


4 - USING THE FEATURES

4.1 Swivel Locks (Models 87, 87-H, 88, 88-H)

The swivel locks prevent the wheels from swiveling but not from rolling.

The locks can be engaged at 90° angles as illustrated below, but not between those angles.



To engage a swivel lock: turn the wheel to the desired position and rotate the lock lever down (Figure 1). Repeat with the other wheels.

To disengage a swivel lock: rotate the lock lever up (Figure 2).

To prevent the truck from rolling when it is stationary, position the wheels as shown in Figure 3 and rotate all four swivel-lock levers down to engage the locks.



Figure 1 - Swivel Lock Engaged



Figure 2 - Swivel Lock Disengaged

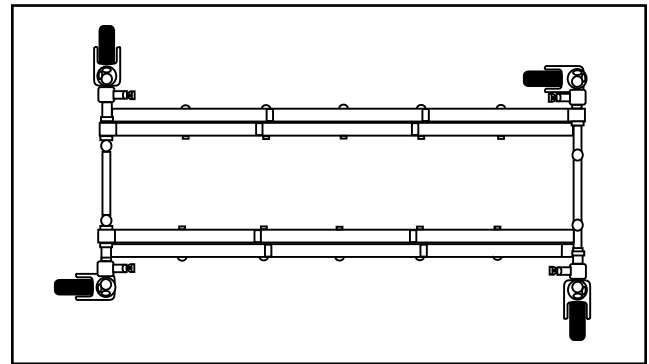


Figure 3 - Wheel Configuration for Stationary Truck

4.2 Wheel Locks (Model 87-HCCT)

The casters on two diagonal corners of the truck are fitted with locks that prevent the wheels from rolling, but not from swiveling.

Follow these guidelines when using the wheel locks:

- Engage **both** wheel locks.
- Keep the wheel locks engaged except when rolling the truck.
- Stay with the truck/casket and maintain control of the truck at all times.

To engage a wheel lock, turn the wheel to the desired position and use your foot to push the end of the lock down until it stops (Figure 4).

To disengage a wheel lock, use your foot to push the opposite end of the lock down until it stops (Figure 5).



Figure 4 - Wheel Lock Engaged



Figure 5 - Wheel Lock Disengaged

Important

Keep the wheels locked except when rolling the truck, and remain with the truck/casket at all times. The wheel locks are not a substitute for operator control of the truck.

4.3 Frame Locks (All Models)

The undercarriage locks into position at four pre-set lengths. Engage **all four** frame locks to secure the undercarriage in the selected position.

To adjust the length of the undercarriage, disengage all four locks by rotating the lock levers down (Figure 6).

After adjusting the undercarriage length, rotate all four lock levers up to engage the locks (Figure 7).



**Figure 6 -
Frame Lock Disengaged**



**Figure 7 -
Frame Lock Engaged**

4.4 Fold-Out Handles (Models 87-H, 87-HCCT, 88-H)

Models 87-H, 87-HCCT, and 88-H trucks are equipped with fold-out handles for use when rolling and maneuvering the trucks.

To extend a handle, raise the handle until it stops at the horizontal position (Figure 8.)

To fold a handle, push the handle down to the vertical position (Figure 8).

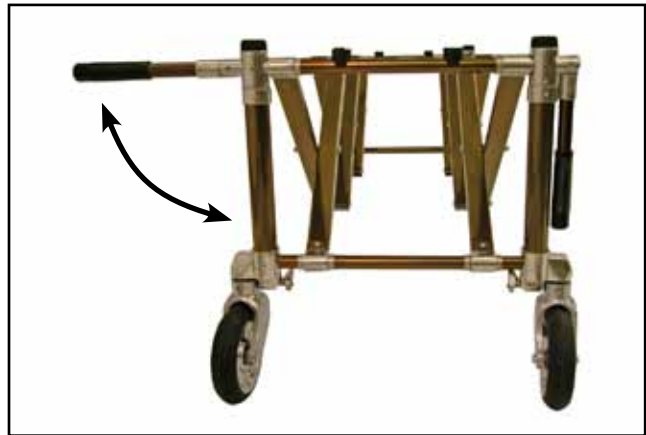


Figure 8 - Fold-Out Handle Operation

4.5 Crossbar Handle (Models 87 and 87-HCCT)

When a Model 87 or Model 87-HCCT truck is folded, the center crossbar functions as a handle for rolling and lifting the truck (Figure 9).



Figure 9 - Using the Crossbar Handle

5 - USING THE TRUCKS

5.1 Before Placing the Truck in Service

- Personnel who will work with the truck need to read this manual.
- Confirm that the truck operates properly. See *Inspecting the Truck*, page 11.

5.2 General Guidelines for Use

- It is the users' responsibility to ensure safe practices.
- The truck is for professional use only.
- A minimum of two or four trained operators is required. Ferno strongly recommends that at least four trained operators be used with heavy loads and with the Model 87-H Cemetery Church Truck.
- **Operators work together and maintain control of the truck at all times.**
- Use the truck as described in this manual.
- Use the truck only when it operates properly.

5.3 Adjusting the Truck Length (All Models)




After every adjustment, confirm that all four frame locks are engaged by trying to move the ends of the truck apart and together. If the locks are engaged, the ends will not move.

To adjust the truck length:

1. Rotate all four frame locks down to the unlocked position (see *Frame Locks*, page 8).
2. Grasp both ends of the truck and move them apart or together until the truck is near the desired length (Figure 10).
3. Rotate all four frame locks to the horizontal position and adjust the truck length a little more until the lock pins seat in the lock-pin holes with a click.

⚠ WARNING
 Improper operation can cause injury. Operate the truck only as described in this manual.

⚠ WARNING
 Helpers can cause injury or be injured. Maintain control of the truck and direct all helpers.

		
General Warning of Potential Injury	Load Limit	Read the Users' Manual

Safety Symbols Used in This Manual

Important
 After adjusting the truck length, always check to make sure all four frame locks are engaged.

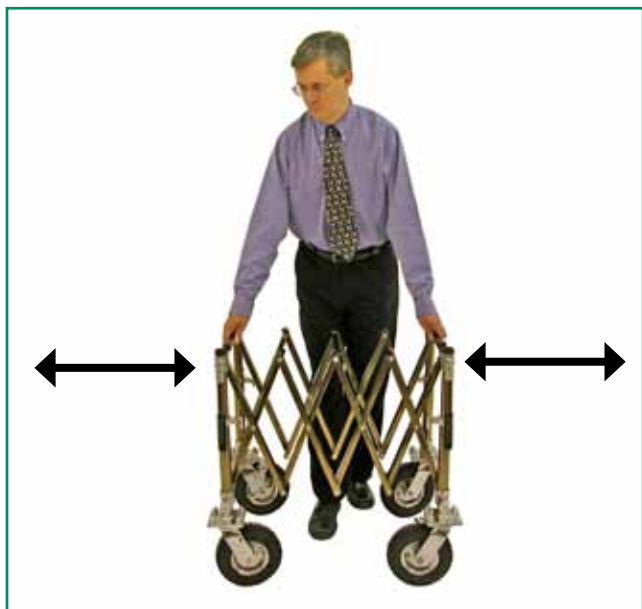


Figure 10 - Adjusting the Truck Length

5.4 Placing a Casket on the Truck (All Models)

1. Park the truck on a level surface.
2. Adjust the truck length to be as long as possible while keeping the ends of the truck beneath the casket (Figure 11). See *Adjusting the Truck Length*, page 9.
3. Position and lock the truck wheels to help keep the truck from rolling (see *Swivel Locks and Wheel Locks*, page 7).
4. Place the casket on the truck, centering it on the rubber bumpers to ensure proper balance.

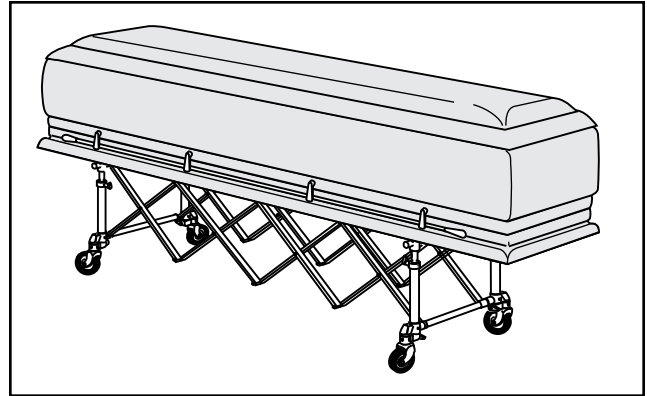


Figure 11 - Center the Casket on the Truck

5.5 Rolling a Truck With a Casket On It

MODEL 87-HCCT

- Use a minimum of four operators to roll the truck.
- Use the truck on slopes **less than 15°**. On slopes steeper than 15°, the truck/casket combination can become top heavy and tip. Keep the truck on level surfaces whenever possible.
- Stay with the truck and maintain control of it at all times.
- Grasp the fold-out handles and roll the truck by pushing it.
- To cross a low obstacle, grasp the handles and lift and pull the front wheels over the obstacle, then repeat with the trailing wheels.

MODELS 87, 87-H, 88, AND 88-H

- Use a minimum of two operators to roll the truck. Ferno recommends using four operators for caskets standard size and larger.
- Stay with the truck and maintain control of it at all times.
- Keep the truck on level surfaces whenever possible.
- To maximize maneuverability and steering control:
 - Align the forward two wheels parallel with the long axis of the truck and engage the swivel locks.
 - Disengage the swivel locks on the trailing wheels.
- If the truck has fold-out handles, grasp them and roll the truck by pushing.

If there are no fold-out handles, operators position themselves in pairs on opposite sides of the truck, grasp the casket handholds, and push forward to move the truck.

- To cross a low obstacle, grasp the truck fold-out handles and lift and pull the front wheels over the obstacle, then repeat with the trailing wheels.

If there are no fold-out handles, operators should seek a ramp or an alternative route with no obstacles.

WARNING

Using the Model 87-HCCT truck/casket combination on a slope steeper than 15° can cause the truck to tip, resulting in injury or damage. Use the truck/casket on level surfaces whenever possible, and never on a slope steeper than 15°.

WARNING

An unattended truck/casket combination can move or be moved and cause injury or damage. Remain with the truck/casket and maintain control of it at all times.

6 - MAINTENANCE

6.1 Maintenance Schedule

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

Keep maintenance records. A sample maintenance record sheet is provided on page 16.

When using maintenance products, follow the manufacturers' directions and read the manufacturers' material safety data sheets. You can purchase a recommended disinfectant from your Ferno distributor or Ferno Customer Relations (page 2).

6.2 Disinfecting the Truck

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

6.3 Cleaning the Truck

Hand wash all surfaces of the truck with warm water and a mild detergent. Rinse with warm, clear water. Dry the truck with a towel or allow it to air-dry.

6.4 Tire Pressure (Model 87-HCCT)

Check the air pressure in the truck tires monthly. Keep the tires properly inflated at between 45 and 50 psi for safer and easier rolling and maneuvering.

Do **not** exceed the manufacturer's maximum pressure rating shown on the tires.

6.5 Inspecting the Truck

Have your equipment maintenance personnel inspect the truck regularly. Follow the checklist at right and operate the truck through all its functions as described in this manual.

If inspection shows damage or excessive wear, remove the truck from service until repair is made. See *Parts and Service*, pages 14 and 15.

 **WARNING**

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

Minimum Maintenance Intervals	Each Use	As Needed	Each Month
Disinfecting (this page)		•	
Cleaning (this page)		•	
Inspecting (this page)			•
Lubricating (page 12)		•	

Important

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

Important

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

INSPECTION CHECKLIST

- Are all components present?
- Is the truck free of excessive wear?
- Are all screws, nuts, bolts, rivets, and roll pins securely in place?
- Do all moving parts operate smoothly and properly?
- Do all four frame locks function properly?
- Models 87, 87-H, 88, 88-H: Do all four swivel-wheel locks engage properly and stop the wheels from swiveling?
- Model 87-HCCT. Do both wheel locks engage properly and stop the wheels from rolling?
- Model 87-HCCT. Are the tires properly inflated?
- Do the wheels have tread?
- Do the folding handles fold and unfold properly?

6.6 Lubricating the Truck

Disinfect and clean the truck before applying lubricant. Use the lubricants designated below. Do not lubricate points marked with the “do not lubricate” symbol.



Do Not Lubricate



Lubricate

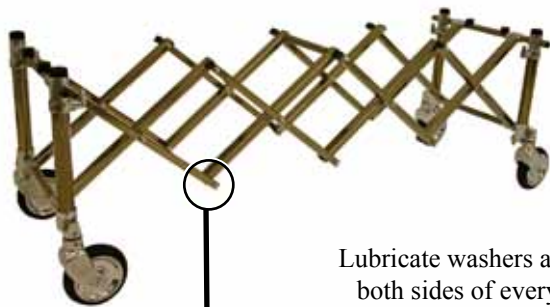
LUBRICATION POINTS

Use a small amount of lubricant. Lubricate identical points on each side of the truck.

- | | |
|-------------------------|--|
| 1. Rings | E-Z-1 or SAE 30-weight oil (1-2 drops) |
| 2. Washers | E-Z-1 or SAE 30-weight oil (1-2 drops) |
| 3. Grease Fitting, Zerk | Multi-purpose automotive grease |

LUBRICATION-FREE ITEMS

- | | |
|---|------------------|
| Frame Lock (All models) | Do not lubricate |
| Swivel-Wheel Lock (Models 87, 87-H, 88, 88-H) | Do not lubricate |
| Wheel Lock (Model 87-HCCT) | Do not lubricate |



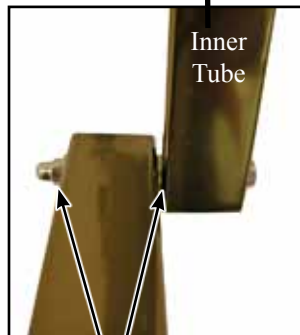
Lubricate washers at both sides of every outer tube.

Models 87, 87-H, and 87-HCCT:

Lubrication points per side: 20.

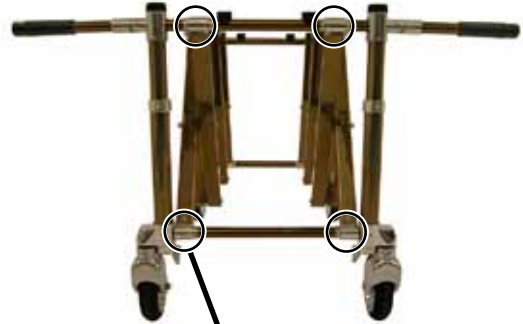
Models 88, 88-H:

Lubrication points per side: 14.



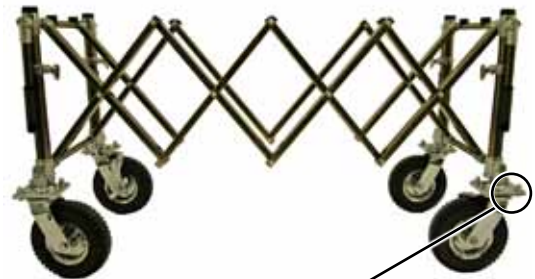
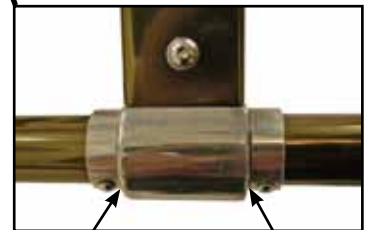
Important

Lubricating parts that should not be lubricated allows dirt and foreign particles to collect on those parts, resulting in damage. Lubricate **only** the numbered reference points shown.



All Models

Lubricate between casting and rings. Four castings each end of truck. Total lubrication points: 16.



Model 87-HCCT

Use grease gun to lubricate Zerk-style grease fitting on each caster. Wipe away excess grease.

Total lubrication points: 4



7 - ACCESSORIES AND RELATED PRODUCTS

Ferno offers a full line of mortuary service accessories and products (cots, lifts, operating and dressing tables, church and showroom trucks, rollers and bier pins, etc.).

Selected items approved for use with the trucks are listed below. For fabrics, colors, and additional information, please see your Ferno Mortuary catalog or contact Ferno Customer Relations (page 2) or your Ferno distributor.

 WARNING
Attaching improper items to the truck can cause injury. Use only Ferno-approved items on the truck.

7.1 Drapes

- Model 87-D Drape, for Model 87 Church Trucks
- Model 88-D Drape, for Model 88 Church Trucks

7.2 Covers

- Model 401 Cover, for Church Trucks Without Drapes
- Model 402 Cover, for Church Trucks With Drapes

8 - PARTS AND SERVICE

8.1 U.S.A. and Canada

In the United States and Canada, to order parts or for professional truck 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

8.2 Worldwide

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

8.3 Parts List

No.	Part	Description	Qty
1	090-2904	6" Wheel w/bearing (87, 87-H, 88, 88-H)	1 ea
2	090-1266	3/8" Wheel bearings, pair (87, 87-H, 88, 88-H)	1 ea
3	090-0180	Standard axle bolt w/nut (87, 87-H, 88, 88-H)	1 ea
4	090-3175	Shank w/pin (87, 87-H, 88, 88-H)	1 ea
5	090-3174	Shank w/wheel assy. (87, 87-H, 88, 88-H)	1 ea
6	090-1259	1/2" Shank bearing, pair (87, 87-H, 88, 88-H)	1 ea
7	090-4122	Shank pin w/ nut (87, 87-H, 88, 88-H)	1 ea
8	090-2907	Blk plastic cap, rectang., set of 4 (all models)	1 ea
9	090-5539	Center handle & axle kit, plain (87-H)	1 ea
9	*190-2071	Center handle & axle kit, plain (87, 87-H, 87H-CCT)	1 ea
10	090-5541	Center handle & axle kit, blue (87, 87-H, 87H-CCT)	1 ea
10	*190-2072	Center handle & axle kit, blue (87, 87-H, 87H-CCT)	1 ea
11	090-5543	Center handle & axle kit, bronze (87, 87-H, 87H-CCT)	1 ea
11	*190-2073	Center handle & axle kit, bronze (87, 87-H, 87H-CCT)	1 ea
12	090-5545	Center handle & axle kit, gold (87, 87-H, 87H-CCT)	1 ea
12	*190-2074	Center handle & axle kit, gold (87, 87-H, 87H-CCT)	1 ea
13	190-1798	Center handle & axle kit for 87, 87-H, 87-HCCT, black	1 ea

* Kits marked with an asterisk are metric.

n/s = Not Shown in Parts Diagrams, page 15

WARNING

Improper parts and service can cause injury. Use only Ferno parts and Ferno-approved service on the truck.

WARNING

Modifying the truck can cause injury and damage. Use the truck only as designed by Ferno.

No.	Part	Description	Qty
13	*190-2075	Center handle & axle kit for 87, 87-H, 87-HCCT, black	1 ea
14	090-2900	Rubber bumper w/bolt, pair (all models)	1 ea
14	*190-2064	Rubber bumper w/bolt, pair (all models)	1 ea
15	090-1110	Tips w/screws, set of 8 (all models)	1 ea
15	*190-2063	RH Tips w/screws, set of 8 (all models)	1 ea
16	090-2908	Blk plastic cap, round, set of 4 (87, 88)	1 ea
17	190-1684	Black round cap for 87 and 88 After sn L-667921 Set of 4	1 ea
18	090-2905	Position-lock lever w/pin & spring (all models)	1 ea
18	*190-2066	Position-lock lever w/pin & spring (all models)	1 ea
19	090-2894	Lever, lock spring & pin (87, 87-H, 88, 88-H)	1 ea
19	*190-2065	Lever, lock spring & pin (87, 87-H, 88, 88-H)	1 ea
20	090-2912	X-frame bolt w/acorn nut (all models)	1 ea
20	*190-2062	X-frame bolt w/acorn nut (all models)	1 ea
21	090-4180	Handle axle kit (87, 87-H, 87-HCCT)	1 ea
21	*190-2070	Handle axle kit (all models)	1 ea
22	090-3074	Hand grip w/rivet (87-H, 87-HCCT, 88-H)	1 ea
23	082-2408	Wheel kit, set of 4 wheels, 2 plain and 2 w/brake (87-HCCT only)	1 ea
24	*090-5931	Metric Hardware Kit (n/s)	1 ea

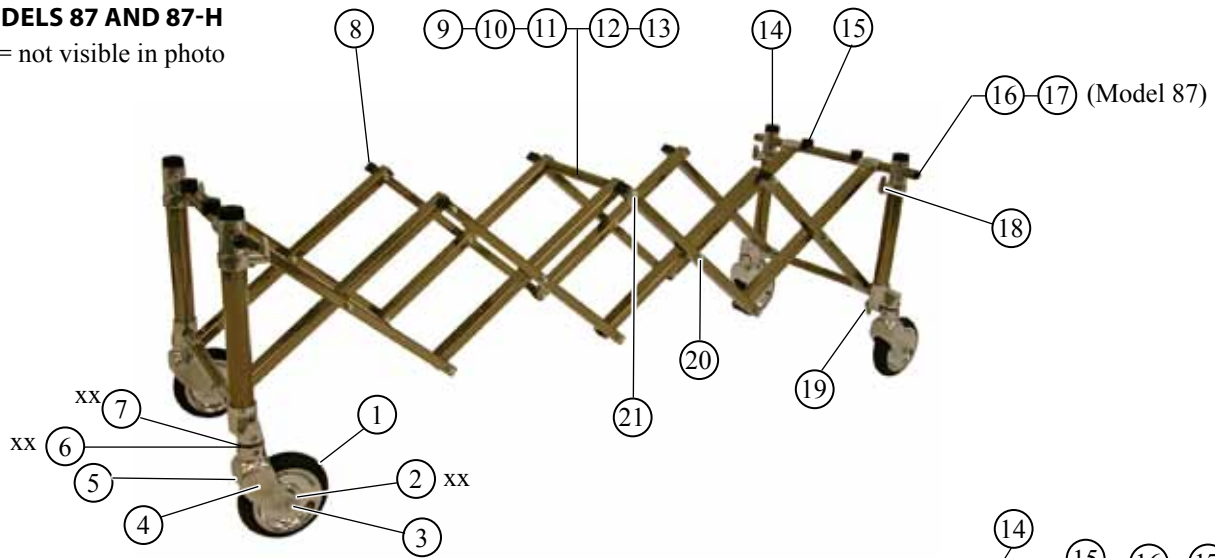
Important

When ordering parts for a church truck, you must provide the serial number to ensure you receive the kit that is compatible with your truck.

8.4 Parts Diagram

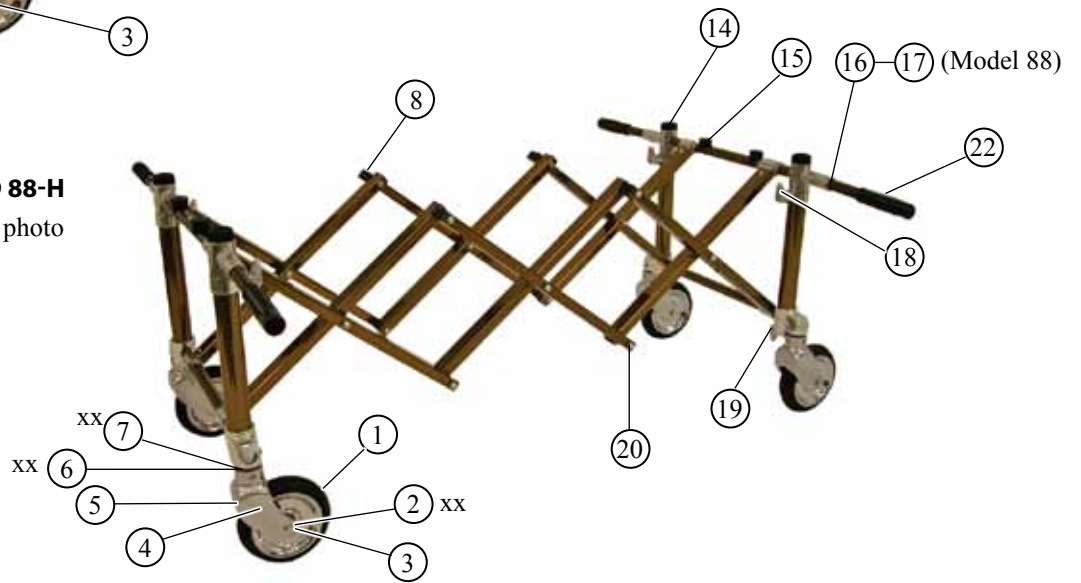
MODELS 87 AND 87-H

xx = not visible in photo

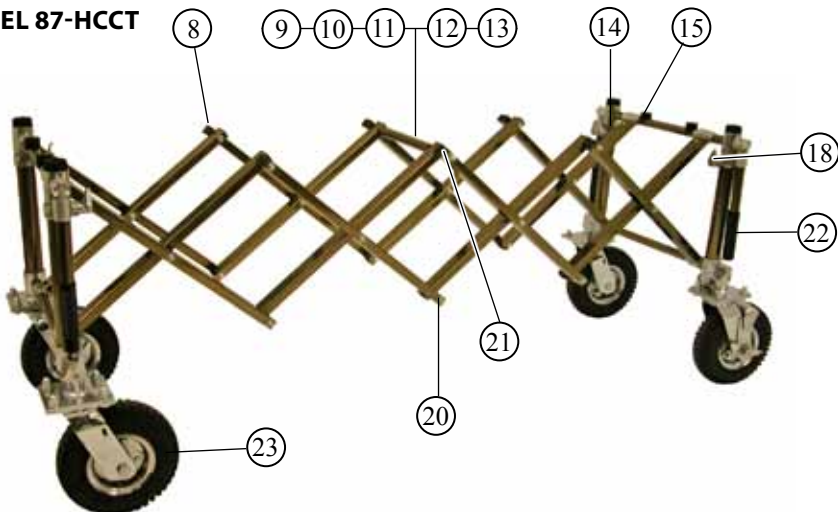


MODELS 88 AND 88-H

xx = not visible in photo



MODEL 87-HCCT



TRAINING RECORD		
Date	Name	Training Method

MAINTENANCE RECORD		
Date	Maintenance Performed	By