

Stryker 6392 Performance LOAD Cot Fastener System User **Manual**

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Performance LOAD® Cot Fastener System User Manual



REF 6392

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Warning/Caution/Note Definition

The words WARNING, CAUTION, and NOTE carry special meanings and should be carefully reviewed.

WARNING

Alerts the reader about a situation which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

CAUTION

Alerts the reader of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the product or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

Note — Provides special information to make maintenance easier or important instructions clearer.

Introduction for service

This manual assists you with the service of your Stryker product. Read this manual to service this product. This manual does not address the operation of this product. See the Operations Manual for operating and use instructions. To view your Operations Manual online, see https://techweb.stryker.com/.

Expected service life

The Performance-LOAD cot fastener has a seven year expected service life under normal use conditions and with appropriate periodic maintenance.

Contact information

Contact Stryker Customer Service or Technical Support at: 1-800-327-0770.

Stryker Medical 3800 E. Centre Avenue Portage, MI 49002 USA

Note – The user and/or the patient should report any serious product-related incident to both the manufacturer and the Competent authority of the European Member State where the user and/or patient is established. To view your operations or maintenance manual online, see https://techweb.stryker.com/. Have the serial number (A) of your Stryker product available when calling Stryker Customer Service or Technical Support. Include the serial number in all written communication.

Serial number location

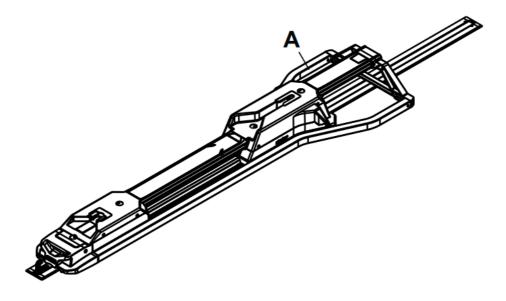


Figure 1 – Serial number location

Preventive maintenance

Establish and follow a maintenance schedule and keep records of the maintenance activity. Remove product from service before you perform the preventive maintenance inspection. You may need to perform preventive maintenance checks more often based on your level of product usage. Service only by qualified personnel.

Every month

Check	Routine
Foot end interface and head end interface	Clean debris

Every three months

Check	Routine
Loose fasteners	Replace if loose

Every twelve months

Check	Routine
All parts	Replace any worn parts, including covers, cot guides, and latch assembly, if necessary
Full functionality	See the Installation checklist in the Operations Manual

Maintenance record

Date	Maintenance operation performed	Ву	Hours

Training record

	Training date			
Trainee nam	Basic training Refresher update		Owner's manual, in- service, formal cla ss, etc.	

Troubleshooting

Inductive charging system does not charge the cot battery
Inductive charging system does not charge the cot battery when you load the cot into the fastener.

Note – Before you service the cot, disconnect the vehicle's battery starting with the negative lead.

- 1. Make sure that a SMRT Pak battery is used on the cot and that the cot is equipped with inductive charging hardware.
- 2. Check for proper connection between the anchor-to-vehicle cable and the inductive primary board.
 - a. Check for 12.8V to 15.6V at the Performance-LOAD end of the anchor-to-vehicle cable (639000010135) connection.
 - b. If present, continue to step 3.
 - c. If not present, make sure that the vehicle meets the following electrical requirements: 12.8V 15.6V, 15A fuse/breaker and two conductor 10 AWG cable.
- 3. Reattach the anchor-to-vehicle cable to the mating side of the inductive primary board.
- 4. After making the connection, verify proper functionality:
 - a. Load a Power-PRO cot (with a SMRT Pak battery) into the fastener, check that the Power-PRO battery indicator is OFF prior to loading the cot into Performance-LOAD.
 - b. If the unit is functioning properly, the cot light panel orb will turn on within five seconds of being loaded into Performance-LOAD. The light indicates that the unit is receiving power and that the electrical installation is correct and complete.
 - c. If the light panel orb does not turn ON, check all connection points and replace the inductive coil and/or the primary board.

Service

Head end interface assembly replacement Tools required:

- T27 Torx driver
- 1/4" hex wrench
- Torque wrench (in-b)

Procedure:

1. Using a T27 Torx driver, remove the four screws that secure the head end top cover to the head end bottom covers.

Save the screws.

2. Using a 1/4" hex wrench, remove the four screws (A) that secure the head end interface assembly (P) to the head end weldment (T) (Figure 2). Save the screws.

Note – Torque item (A) to 300 + 15 in-lb.

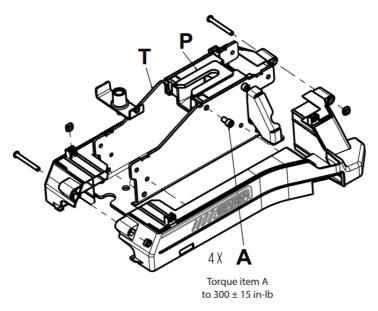


Figure 2 - Replacing the head end interface assembly

- 3. Remove and discard the head end interface assembly.
- 4. Reverse steps to reinstall.
- 5. Verify proper operation before you return the product to service.

Foot end interface assembly replacement Tools required:

- 727 Torx driver
- 1/4" hex wrench
- Torque wrench (in-b)

Procedure:

1. Using a T27 Torx driver, remove the six screws that secure the foot end top cover to the foot end bottom cover.

Save the screws.

2. Using a 1/4" hex wrench, remove the six screws (A) that secure the foot end interface assembly (K) to the foot end weldment (R) (Figure 3). Save the screws.

Note – Torque item (A) to 300 + 15 in-lb.

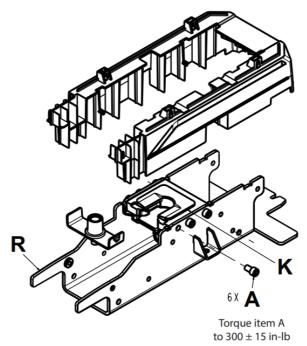


Figure 3 - Replacing the foot end interface assembly

- 3. Remove the foot end interface from the lower release link by sliding it toward the head end. Discard the foot end interface.
- 4. Reverse steps to reinstall.
- 5. Verify proper operation before you return the product to service.

Inductive primary board replacement (optional) Tools required:

T27 Torx driver

Procedure:

- 1. Unsnap the floor plate cover to gain access to the electrical connection.
- 2. Disconnect the red and black wires from the cable harness.
- 3. Using a T27 Torx driver, remove the six screws that secure the foot end top cover to the foot end bottom cover. Save the screws.
- 4. Using a T27 Torx driver, remove the two screws (A) that secure the inductive charging assembly (C) to the foot end weldment (Figure 4). Save the screws.
- 5. Remove the inductive charging assembly.
- Remove the inductive primary board from the charging enclosure. Discard the inductive primary board.
 Note Do not dispose of as unsorted municipal waste. Refer to your local distributor for return or collection systems available in your country.
- 7. Reverse steps to reinstall.
- 8. Verify proper operation before you return the product to service.

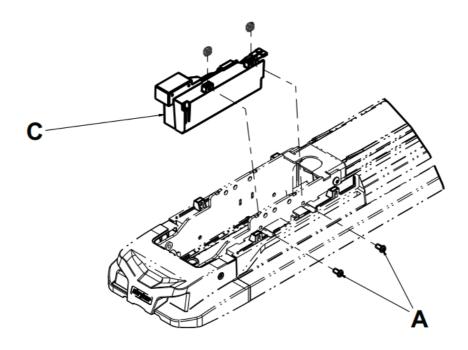


Figure 4 - Replacing the inductive primary board

Head end plunger replacement Tools required:

• 727 Torx driver

Procedure:

- 1. Remove the head end interface assembly (See Head end interface assembly replacement (page 7)).
- 2. Using a T27 Torx driver, remove the four screws (A) that secure the pin enclosure (C) to the head end interface (B) (Figure 5). Save the screws.
- 3. Remove and save the two plunger springs (D) (Figure 5).
- 4. Remove and save the plunger bracket (F) (Figure 5).
- 5. Remove and discard the plunger (E) (Figure 5).

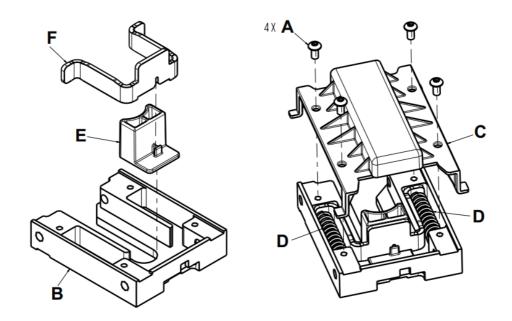


Figure 5 – Replacing the head end plunger

- 6. Reverse steps to reinstall.
- 7. Verify proper operation before you return the product to service.

Foot end lock pawl replacement

Tools required:

- 725 Torx driver
- 1/8" punch

Procedure:

- 1. Remove the foot end interface assembly (see Foot end interface assembly replacement (page 7)).
- 2. Using a 1/8" punch, push the dowel pin (B) out of the release latch arm (G) (Figure 6). Save the dowel pin.
- 3. Using a T25 Torx driver, remove the six screws (A) that secure the pivot bracket to the foot end interface (C) (Figure 6).

Save the screws.

4. Remove and discard the lock pawl (D) (Figure 6).

Note – Make sure that the pawl spring (F) remains in place when you remove the lock pawl.

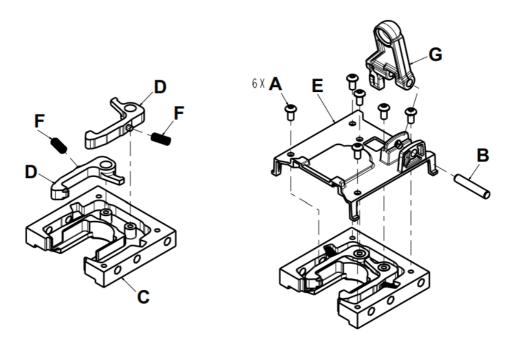


Figure 6 - Replacing the foot end lock pawl

- 5. Reverse steps to reinstall.
 - Note Fully insert the dowel pin during reassembly.
- 6. Verify proper operation before you return the product to service.

Safety bar rail support replacement Tools required:

• 727 Torx driver

Procedure:

1. Using a T27 Torx driver, remove the two screws (A) that secure the safety bar rail support (B) to the safety bar rail (C) (Figure 7). Save the screws.

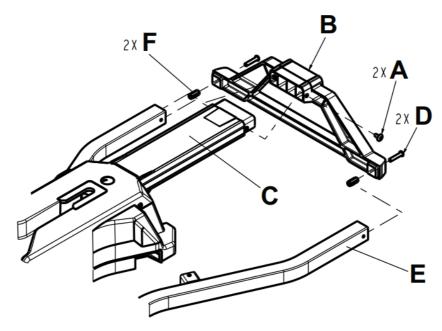


Figure 7 – Replacing the safety bar rail support

2. Using a T27 Torx driver, remove the two screws (D) that secure the safety bar rail support (B) to the guide rails

- (E) (Figure 7). Save the screws. Discard the safety bar rail support.
- 3. Reverse steps to reinstall.
 - **Note** Make sure that the two hex couplers (F) are centered in the guide rails (E) before you reinstall (Figure 7).
- 4. Verify proper operation before you return the product to service.

Foot end cover assembly replacement Tools required:

- T27 Torx driver
- 15/16" hex wrench
- 3/8" Allen wrench

Procedure:

- 1. Using a T27 Torx driver, remove the four socket head cap screws (A) that secure the foot end cover assembly (B) to the transfer (Figure 8). Save the screws.
- 2. Using a T27 Torx driver, remove the two button head cap screws (C) that secure the foot end cover assembly to the foot end nose assembly (D) (Figure 8). Save the screws.
- 3. Remove the foot end cover assembly by sliding it toward the head end of the vehicle patient compartment. Discard the foot end cover assembly.
- 4. Reverse steps 1-3 to reinstall the foot end cover assembly.

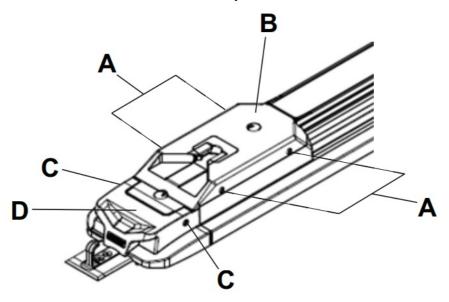


Figure 8 - Foot end cover assembly

5. Using a 15/16" hex wrench, loosen the locknut (E) that secures the pin (F) to the head end forging assembly (Figure 9).

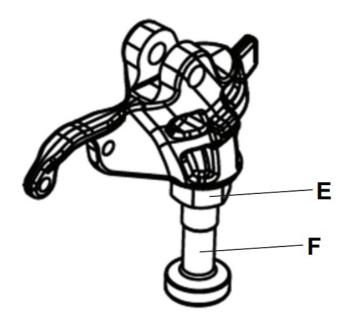
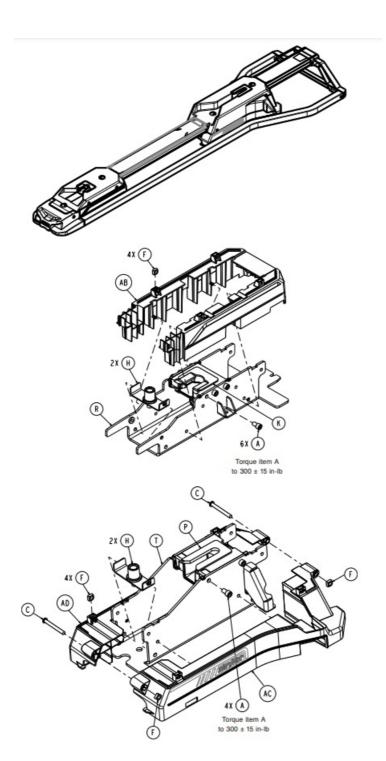


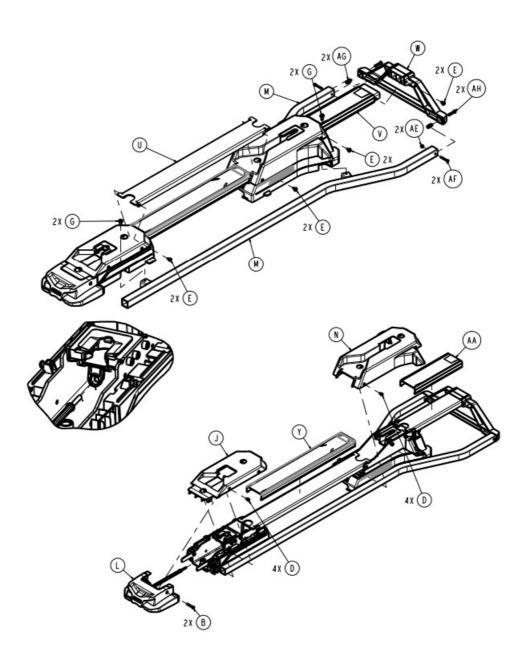
Figure 9 - Head end forging assembly

- 6. Using a 3/8" Allen wrench, adjust the pin so there is maximum clearance between the foot end cover assembly during loading and unloading.
 - **Note** The pin must lock into the head end of the fastener while loaded.
- 7. Using a 15/16" hex wrench, tighten the locknut that secures the pin to the head end forging assembly.
- 8. Verify proper operation before you return the product to service.
 - **Note** You must repair the cot and Performance-LOAD to avoid recurring damage to the foot end cover assembly.

Performance-LOAD assembly

6392-001-010 Rev AA (Reference only)

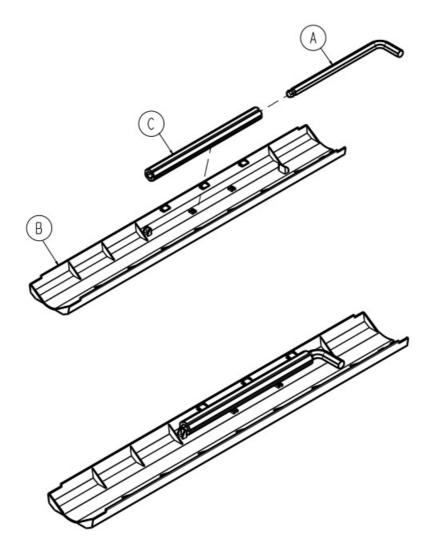




B 000 C 000 D 000 E 000 F 001 G 002	04-270-000 04-376-000 04-387-000 04-589-000 07-052-000 15-096-000 23-350-000 92-001-012 92-001-021 92-001-022	Socket head cap screw Button head cap screw Button head cap screw Button head cap screw Truss head Torx screw Square nut Pan head thread-cutting tapping screw Floor plate bolt assembly (page 17) Foot end cover assembly (page 20)	10 2 2 8 8 10 4 4
C 000 D 000 E 000 F 001 G 002	04-387-000 04-589-000 07-052-000 15-096-000 23-350-000 92-001-012 92-001-021 92-001-022	Button head cap screw Button head cap screw Truss head Torx screw Square nut Pan head thread-cutting tapping screw Floor plate bolt assembly (page 17) Foot end cover assembly (page 20)	2 8 8 10 4
D 000 E 000 F 001 G 002	04-589-000 07-052-000 15-096-000 23-350-000 92-001-012 92-001-021 92-001-022	Button head cap screw Truss head Torx screw Square nut Pan head thread-cutting tapping screw Floor plate bolt assembly (page 17) Foot end cover assembly (page 20)	8 8 10 4
E 000 F 001 G 002	07-052-000 15-096-000 23-350-000 92-001-012 92-001-021 92-001-022	Truss head Torx screw Square nut Pan head thread-cutting tapping screw Floor plate bolt assembly (page 17) Foot end cover assembly (page 20)	8 10 4 4
F 001 G 002	15-096-000 23-350-000 92-001-012 92-001-021 92-001-022	Square nut Pan head thread-cutting tapping screw Floor plate bolt assembly (page 17) Foot end cover assembly (page 20)	10 4 4
G 002	23-350-000 92-001-012 92-001-021 92-001-022	Pan head thread-cutting tapping screw Floor plate bolt assembly (page 17) Foot end cover assembly (page 20)	4
	92-001-012 92-001-021 92-001-022	Floor plate bolt assembly (page 17) Foot end cover assembly (page 20)	4
H 639	92-001-021 92-001-022	Foot end cover assembly (page 20)	
	92-001-022	, , , , , , , , , , , , , , , , , , ,	1
J 639		Foot and interference the (04)	
K 639	i	Foot end interface assembly (page 21)	1
L 639	92-001-023	Foot end nose assembly (page 22)	1
M 6.3	39201E+11	Weldment, guide rail	2
N 639	92-001-031	Head end cover assembly (page 24)	1
P 639	92-001-032	Head end interface assembly (page 25)	1
R 639	92-001-052	Weldment, foot end	1
T 639	92-001-053	Weldment, head end	1
U 639	92-001-102	Safety bar rail, long	1
V 639	92-001-103	Safety bar rail, short	1
W 639	92-001-104	Safety bar rail support	1
Y 639	92-001-105	Safety bar rail cover, long	1
AA 639	92-001-106	Safety bar rail cover, short	1
AB 639	92-001-208	Foot end cover, bottom	1
AC 639	92-001-303	Head end cover, patient left	1
AD 639	92-001-304	Head end cover, patient right	1
AE 001	16-003-000	Nylon hex nut	2
AF 000	04-171-000	Button head cap screw	2
AG 6.3	392E+11	Hex coupler	2
AH 000	04-198-000	Button head cap screw	2

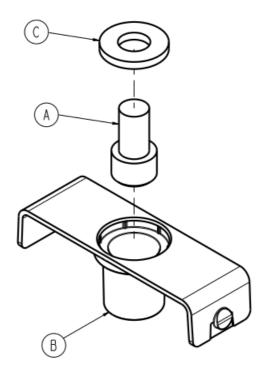
Center cover assembly

6392-001-011 Rev A (Reference only)



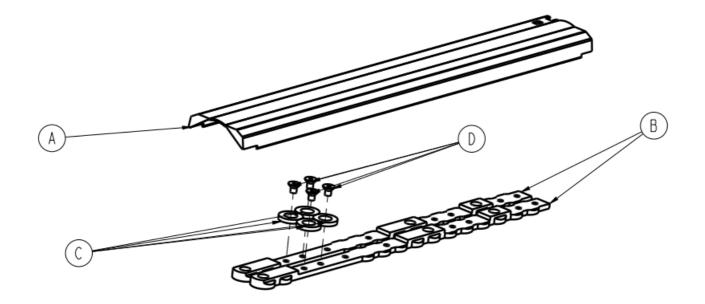
Item	Number	Name	Quantity
Α	0057-011-000	3/8" hex wrench, ball end	1
В	6392-001-403	Floor plate cover	1
С	6392-001-406	Removal tool extension	1

Floor plate bolt assembly 6392-001-012 Rev A (Reference only)



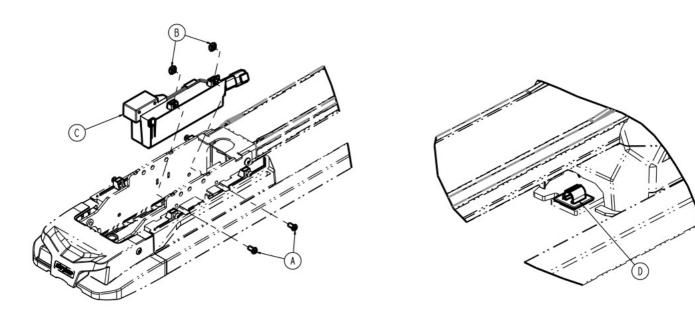
Item	Number	Name	Quantity
Α	0004-910-000	Socket head cap screw	1
В	6392-001-142	Floor plate bolt holder	1
С	6392-001-143	Washer, bolt holder	1

Install kit assembly 6392-001-014 Rev A (Reference only)



Item	Number	Name	Quantity
Α	6392-001-011	Center cover assembly	1
В	6392-001-400	Cleat	2
С	6392-001-401	Cleat locator washer	4
D	0001-194-000	Flat head cap screw	4

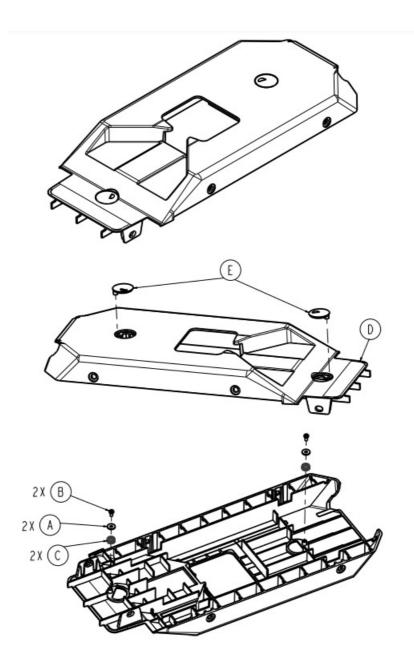
Inductive charging option 6392-001-015 Rev AA (Reference only)



Item	Number	Name	Quantity
Α	0004-589-000	Button head cap screw	2
В	0015-096-000	Square nut	2
С	639200010041	Inductive charging assembly (page 26)	1
D	0058-394-000	Cable clip	1

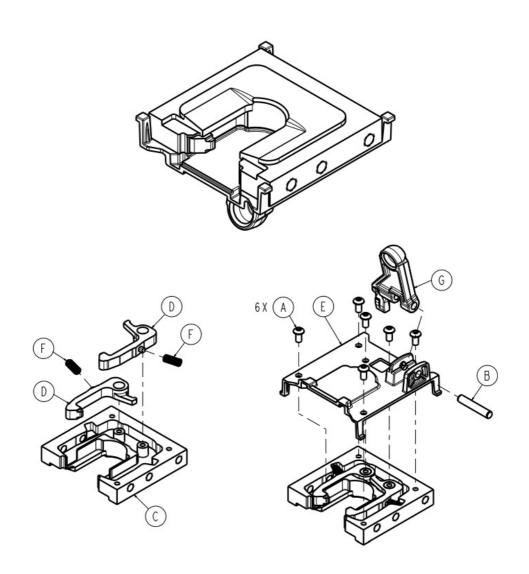
Foot end cover assembly

6392-001-021 Rev A (Reference only)



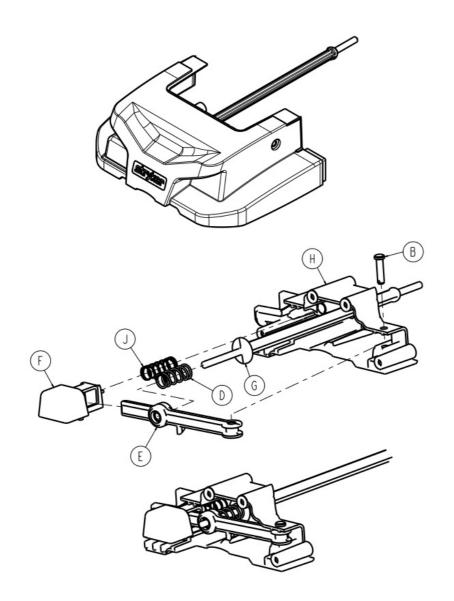
Item	Number	Name	Quantity
Α	0011-642-000	Plain washer	2
В	0023-349-000	Pan head thread forming screw	2
С	0038-905-000	Spin cap spring	2
D	6392-001-108	Top cover, foot end	1
E	6392-001-309	Spin cap	2

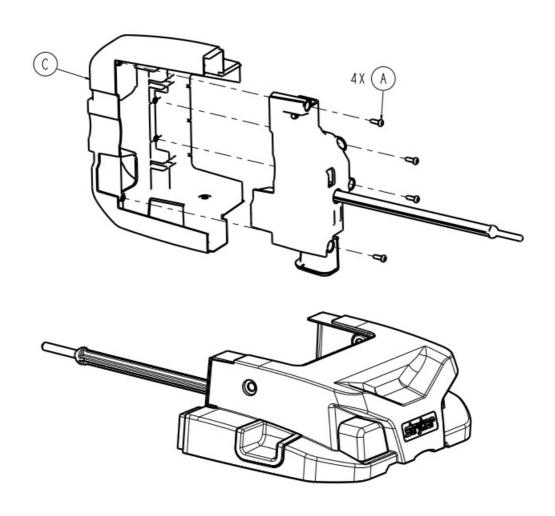
Foot end interface assembly 6392-001-022 Rev A (Reference only)



Item	Number	Name	Quantity
Α	0004-442-000	Button head cap screw	6
В	0026-556-000	Dowel pin	1
С	6392-001-202	Interface, foot end	1
D	6392-001-250	Lock pawl, foot end	2
E	6392-001-251	Pivot bracket, foot end interface	1
F	6392-001-252	Pawl spring	2
G	6392-001-257	Release latch link arm	1

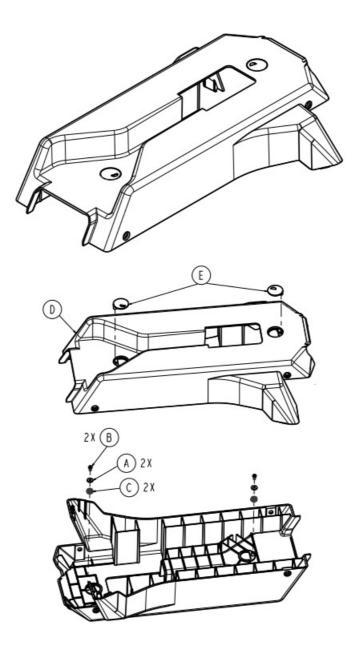
Foot end nose assembly 6392-001-023 Rev A (Reference only)





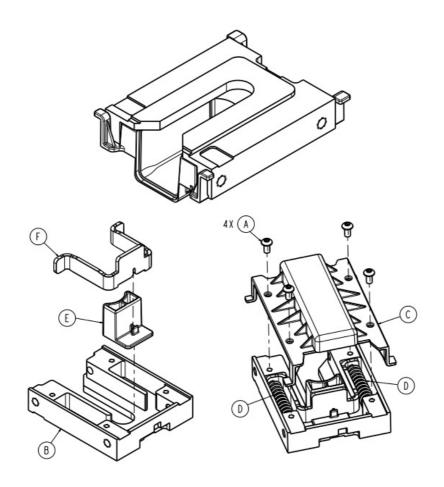
Item	Number	Name	Quantity
A	0023-167-000	Pan head thread forming screw	4
В	0026-316-000	Clevis pin	1
С	6392-001-205	Nose cover	1
D	6392-001-253	Thick release spring	1
E	6392-001-254	Release pivot arm	1
F	6392-001-255	Release button	1
G	6392-001-256	Release lower link	1
Н	6392-001-258	Release housing	1
J	6392-001-259	Thin long release spring	1

Head end cover assembly 6392-001-031 Rev A (Reference only)



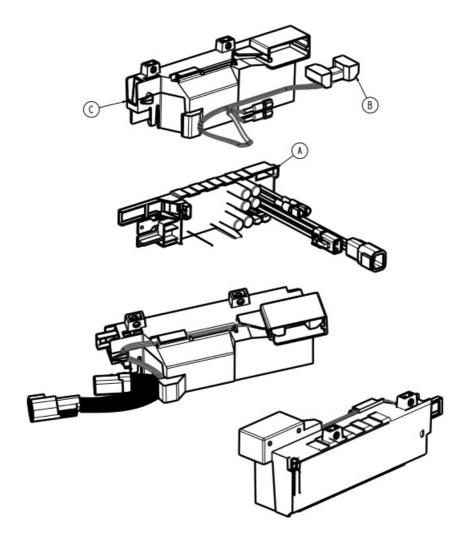
Item	Number	Name	Quantity
Α	0011-642-000	Plain washer	2
В	0023-349-000	Pan head thread forming screw	2
С	0038-905-000	Spin can spring	2
D	6392-001-109	Head end top cover	1
E	6392-001-309	Spin cap	2

Head end interface assembly 6392-001-032 Rev A (Reference only)



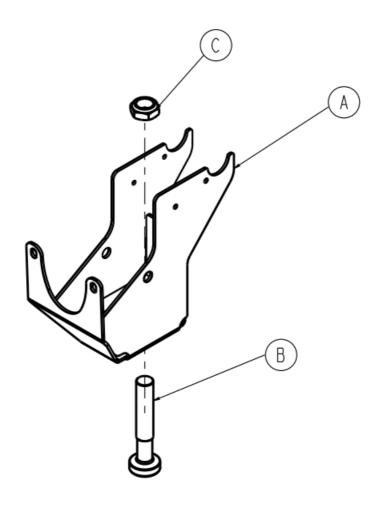
Item	Number	Name	Quantity
Α	0004-442-000	Button head cap screw	4
В	6392-001-302	Head end interface	1
С	6392-001-305	Head end pin closure	1
D	6392-001-306	Plunger spring	2
E	6392-001-307	Head end plunger	1
F	6392-001-308	Head end plunger bracket	1

Inductive charging assembly 639200010041 Rev AA (Reference only)



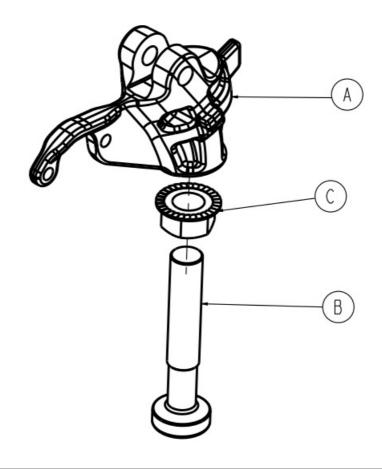
Item	Number	Name	Quantity
Α	639002010147	Inductive primary board	1
В	6390-001-133	Anchor primary coil	1
С	6392-001-150	Inductive charging enclosure	1

Head end hitch assembly 6392-001-061 Rev A (Reference only)



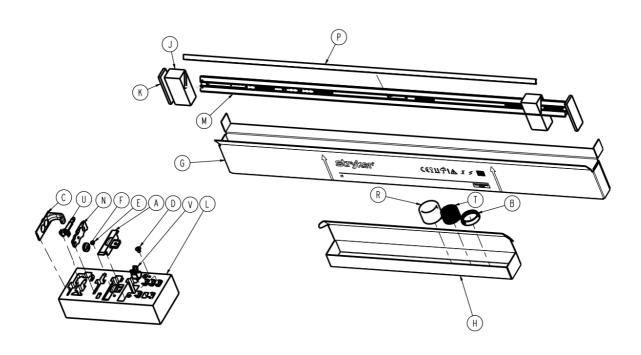
Item	Number	Name	Quantity
Α	6392-001-054	Head end hitch weldment	1
В	6392-001-500	Head end hitch pin	1
С	0016-019-000	Nylock hex nut	1

Head end forging assembly 6392-001-062 Rev A (Reference only)



Item	Number	Name	Quantity
Α	6392-001-510	Machined forging	1
В	6392-001-500	Head end hitch pin	1
С	0016-323-000	Hex flange serrated lock nut	1

Floor plate, assembly kit 639207000001 Rev AA (Reference only)



Item	Number	Name	Quantity
А	639000010111	Floor plate end cap, machined	1
В	639000010135	Anchor-to-vehicle cable	1
С	639000010148	PPoowweerr-LLOOAADD safety hook	1
D	0001-194-000	Flat head cap screw	2
E	0021-197-000	Set screw	2
F	0037-247-000	Rubber grommet	1
G	0054-200-372	Floor plate/wheel guide shipping box	1
Н	0054-200-375	Component shipping box	1
J	0054-200-380	Floor plate shipping foam	2
К	0054-200-383	Wheel guide end cap	2
L	0054-401-003	Floor plate foam pack	1
М	6390-001-107	Floor plate	1
N	6390-101-108	Floor plate attachment bracket	1
Р	6390-001-109	Floor plate cap	1
R	6390-001-153	Wire protection loom, under ambulance	1
Т	6390-001-170	Drain tube	1
U	6390-001-183	Drain tube, floor plate	1
V	6390-001-202	Clamp, rubber coated, p style	6
W	6390-009-044	Model 6390 wiring update memo (not show n)	1
Υ	6390-109-020	Floor plate installation instructions (not sho wn)	1

EMC information

Guidance and manufacturer's declaration – electromagnetic emissions

Performance-LOAD is intended for use in the electromagnetic environment specified below. The customer or the user of Performance-LOAD should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment
RF Emissions CISPR 11	Group 2	The Performance-LOAD system must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.
RF Emissions CISPR 11	Class A	The Performance-LOAD system is suitable for use in all establishments other than do mestic and those directly connected to the public low-voltage power supply network th at supplies buildings used for domestic pur poses.

Recommended separations distances between portable and mobile RF communications equipment and Performance-LOAD

Performance-LOAD is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of Performance-LOAD can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and Performance-LOAD as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter	Separation distance according to frequency of transmitter m			
W	150 kHz to 80 MHz d=(1.2) (JP)	80 MHz to 800 MHz d=(.18) (VP)	800 MHz to 2.5 GHz d=(.35) (VP)	
0.01	0.12	0.035	0.07	
0.1	0.38	0.11	0.22	
1	1.	0.35	0.7	
10	4.	1.	2.	
100	12	4.	7	

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. Note 2: These guidelines may not apply in all situations.

Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

Immunity test	EN/IEC 80801 test lev el	Complianc e level	Electromagnetic environmeM-guidance	
Guidance and manufa	acturers declarat	ion – electrom	nagnetic immunity	
Electrostatic dischar ge (ESD) IEC 61000 -4-2	+8 kV contact +15 IN air —	+8 W conta ct +15 kV air	Floors should be wood. concrete, or ceramic tile. If floors a re covered with synthetic material, the relative humidity sh ould be at least 30%.	
Power frequency (5 0/60 Hz) magnetic fi eld IEC 61000-4-8	30 Aim	30 Alm	Power frequency magnetic fields should be at levels chara cteristic of a typical location in a typical commercial or hos pital environment.	
Note: UT is the a.c. m	Note: UT is the a.c. mains voltage before applications of the test level.			
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3 3 Vrms 150 kHz to 80 MHz 10 Vim 10 V/m 80 MHz to 2.5 GHz			Portable and mobile RF communications equipment shoul d be used no closer to any part of Performance-LOAD. including cables. than the recommended separation distance calculated from the equation appropriate for the frequency of the transmitter. Recommended separation distance D=(.35) N P) 80 MHz to 800 MHz D(0.70) (.'P) 800 MHz to 2.5 GHz where Pis the maxinum output power rating of the transmit ter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters. as determined by an electromagnetic site' should be less than the oompliance level in each frequency range' Interference may occur in the vicinity of equipment marked with the following symbol:	

Guidance and manufacturer's declaration – electromagnetic immunity

Note 1: At 80 MHz and 800 MHz, the higher frequency range applies. Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which Performance-LOAD is used exceeds the applicable RF compliance level above, the Performance-LOAD system should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating Performance-LOAD.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.





Documents / Resources



<u>Stryker 6392 Performance LOAD Cot Fastener System</u> [pdf] User Manual 6392 Performance LOAD Cot Fastener System, 6392, Performance LOAD Cot Fastener System, Cot Fastener System

References

• Stryker Medical - Tech Web

Manuals+, home privacy