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Medical

Renaissance Series

2020 Critical Care Bed

MAINTENANCE MANUAL

For Parts or Technical Assistance
1-800-327-0770

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INTRODUCTION

This manual is designed to assist you with the maintenance of the 2020 Renaissance Series Critical Care Bed. Read it thoroughly before using the equipment or beginning any maintenance on it.

SPECIFICATIONS

Maximum Weight Capacity	500 pounds
Overall Bed Length/Width	90"/38"
Minimum/Maximum Bed Height	22.5"/35" – 20.5"/33" (low height option)
Knee Gatch Angle	0° to 35°
Fowler Angle	0° to 90°
Trendelenburg/Reverse Trendelenburg	-12° to +12°
Weigh System Accuracy (optional equipment)	+ / - 1% of total patient weight
Electrical Requirements	110 VAC, 60 Hz, 5.0 Amp

WARNING / CAUTION / NOTE DEFINITION

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

WARNING

The personal safety of the patient or user may be involved. Disregarding this information could result in injury to the patient or user.

CAUTION

These instructions point out special procedures or precautions that must be followed to avoid damaging the equipment.

NOTE

This provides special information to make maintenance easier or important instructions clearer.

Cleaning

Hand wash all surfaces of the stretcher with warm water and mild detergent. Dry thoroughly. **DO NOT STEAM CLEAN, PRESSURE WASH, HOSE OFF OR ULTRASONICALLY CLEAN.** Using these methods of cleaning is **not** recommended and may void this product's warranty.

Clean Velcro **AFTER EACH USE**. Saturate Velcro with disinfectant and allow disinfectant to evaporate. (Appropriate disinfectant for nylon Velcro should be determined by the hospital.)

In general, when used in those concentrations recommended by the manufacturer, either phenolic type or quaternary type disinfectants can be used. Iodophor type disinfectants are not recommended for use because staining may result. The following products have been tested and have been found not to have a harmful effect on fabrics WHEN USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED DILUTION.*

TRADE NAME	DISINFECTANT TYPE	MANUFACTURER	*MANUFACTURER'S RECOMMENDED DILUTION
A33	Quaternary	Airwick (Professional Products Division)	2 ounces/gallon
A33 (dry)	Quaternary	Airwick (Professional Products Division)	1/2 ounce/gallon
Beaucoup	Phenolic	Huntington Laboratories	1 ounce/gallon
Blue Chip	Quaternary	S.C. Johnson	2 ounces/gallon
Elimstaph	Quaternary	Walter G. Legge	1 ounce/gallon
Franklin Phenomysan F2500	Phenolic	Purex Corporation	1 1/4 ounce/gallon
Franklin Sentinel	Quaternary	Purex Corporation	2 ounces/gallon
Galahad	Phenolic	Puritan Churchill Chemical Company	1 ounce/gallon
Hi-Tor	Quaternary	Huntington Laboratories	1/2 ounce/gallon
LPH	Phenolic	Vestal Laboratories	1/2 ounce/gallon
Matar	Phenolic	Huntington Laboratories	1/2 ounce/gallon
Omega	Quaternary	Airwick (Professional Products Division)	1/2 ounce/gallon
Quanto	Quaternary	Huntington Laboratories	1 ounce/gallon
Sanikleen	Quaternary	West Chemical Products	2 ounces/ gallon
Sanimaster II	Quaternary	Service Master	1 ounce/gallon
Vesphene	Phenolic	Vestal Laboratories	1 1/4 ounce/ gallon

Quaternary Germicidal Disinfectants, used as directed, and/or Chlorine Bleach products, typically 5.25% Sodium Hypochlorite in **dilutions ranging between 1 part bleach to 100 parts water, and 2 parts bleach to 100 parts water are not considered mild detergents. These products are corrosive in nature and may cause damage to your stretcher if used improperly.** If these types of products are used to clean Stryker patient handling equipment, measures must be taken to insure the stretchers are rinsed with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the stretchers will leave a corrosive residue on the surface of the stretcher, possibly causing premature corrosion of critical components.

NOTE

Failure to follow the above directions when using these types of cleaners may void this product's warranty.

REMOVAL OF IODINE COMPOUNDS

This solution may be used to remove iodine stains from mattress cover and foam footrest pad surfaces.

1. Use a solution of 1–2 tablespoons Sodium Thiosulfate in a pint of warm water to clean the stained area. Clean as soon as possible after staining occurs. If stains are not immediately removed, allow solution to soak or stand on the surface.
2. Rinse surfaces which have been exposed to the solution in clear water before returning bed to service.

Preventative Maintenance

CHECKLIST

- _____ All fasteners secure
- _____ Siderails move and lock properly
- _____ All casters lock with brake pedal engaged
- _____ Foot end steering caster locks with steer engaged (page 9)
- _____ Fowler crank operating properly (page 76)
- _____ Knee Gatch crank operating properly (page 75)
- _____ Lift pedal operating properly (page 6)
- _____ Trendelenburg/Reverse Trendelenburg pedals operating properly (page 6)
- _____ All functions on head and foot end control panels operating properly –head end is optional equipment– (page 12)
- _____ Patient and/or nurse control functions operating properly (optional equipment)
- _____ Weigh system operating properly (page 20)
- _____ Safety switches on Knee Gatch and Fowler operating properly
- _____ I.V. pole working properly (page 104–106)
- _____ O2 bottle holder working properly (page 108)
- _____ Restraint strap mounting points secure to litter
- _____ Restraint straps working properly (optional equipment)
- _____ Head and foot boards secure in frame ends
- _____ No cracks or splits in head and foot boards
- _____ No rips or cracks in mattress cover

Before continuing the checklist, raise the bed to full up, unplug the power cord from the wall receptacle, and lift and support the hood assembly.

- _____ Power cord not frayed; no loose connections (page 34 or 35)
- _____ No cables worn or pinched
- _____ All electrical connections tight
- _____ All grounds secure to frame
- _____ Ground impedance of optional 110 volt outlet not more than 100 milliohms
- _____ Ground chain intact and in place
- _____ Hydraulic oil level sufficient (page 7)
- _____ No leaks at hydraulic connections
- _____ No hoses worn, kinked or leaking
- _____ Fowler slides securely in tracks and tracks well greased (use MPG Dubois or equivalent)
- _____ Lexan securely fitted; no cracks
- _____ Brake cam pad not excessively worn

Service Information

MECHANICAL TROUBLESHOOTING

PROBLEM/SYMPTOM	SOLUTION(S)
Litter will not lower with foot pedals depressed.	Adjust valve control linkage rods (page 10).
Litter will not lift when foot pedal pumped.	Add hydraulic fluid (page 7). Bleed air from hydraulic system (page 7). Change pump pedal cylinder(s).
Litter "drifts".	Bleed air from hydraulic system (page 7). Adjust valve control linkage (page 10). Check for leaking hoses or fittings and replace. Disconnect hose from affected jack, install cap on fitting and watch for drift to determine if jack is faulty. If jack is O.K., replace check valve #6. If this does not solve the problem, replace valve #1. If the litter still drifts, replace valve #5 (see page 11 for valve references).
Steer wheel doesn't engage or disengage properly.	Adjust steer wheel linkage (page 9). Replace tension spring.

HYDRAULIC DESCENT RATE ADJUSTMENT

The descent rate of either end of the bed can be adjusted by turning the needle valves on the manifold assemblies located on the base of the bed (see illustration page 11). To access the manifold assemblies, lift and support the foot end of the hood assembly (see page 15). The needle valve for the head end jack is located on the left side of the bed if you are standing at the foot (control) end of the bed. The needle valve for the foot end jack is located on the right side of the bed if you are standing at the foot end. To slow the jack descent rate, turn the needle valve clockwise. To increase the jack descent rate, turn the needle valve counterclockwise.

NOTE

The descent rate was preset at the factory.

BLEEDING AIR FROM THE HYDRAULIC SYSTEM

If the lift motion is jerky or sluggish when the "BED UP" button is pressed or when the lift pedal is pumped, and/or the litter is not firm when it is pushed down, there may be air in the hydraulic system. This may have been caused when the bed was unloaded from the shipping carton if it was lifted out by the litter instead of by the brake rings.

To bleed air from the hydraulic system, plug the bed into a properly grounded wall receptacle and turn on the main power switch at the foot end of the bed. Press and Hold the "BED UP" button on the foot end keypad. Raise the litter to full up and continue to hold the button to run the pump for an additional 30–45 seconds after full up is reached. Press the "BED DOWN" button and lower the litter to full down. Repeat the procedure 2–3 times or until the bed motion is smooth.

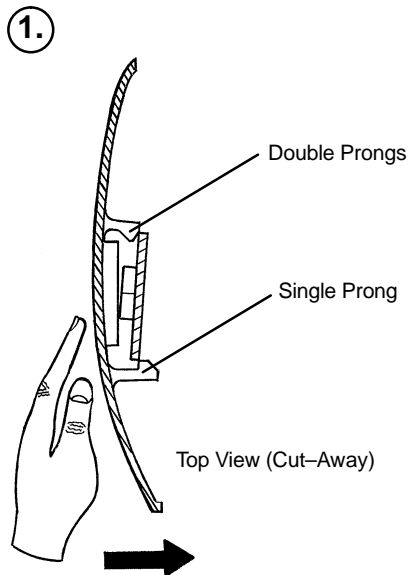
Raise the litter to full up using the lift pedal and continue to pump 10–12 times after full up is reached. Lower the bed using the foot pedals. While continuing to hold the foot pedals down, pump the lift pedal an additional 10–12 times. Repeat the procedure 2–3 times or until the bed motion is smooth and the pedal action is firm.

CHECKING HYDRAULIC OIL LEVEL

1. Lift and support the base hood (see page 15). The hydraulic oil reservoir is located at the foot end of the bed on the patient's left.
2. With all cylinders full up, assure the hydraulic oil is at the required level as indicated on the reservoir.
3. If replacement oil is required, use Mobil Aero HFA or Mobil Aerex 903 hydraulic oil (Stryker part number 2020-70-475).
4. Replace the base hood (see page 15).

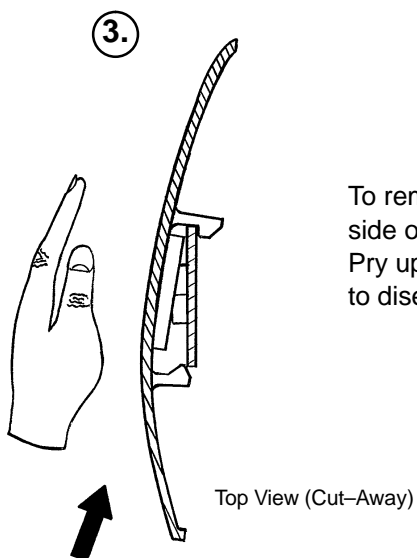
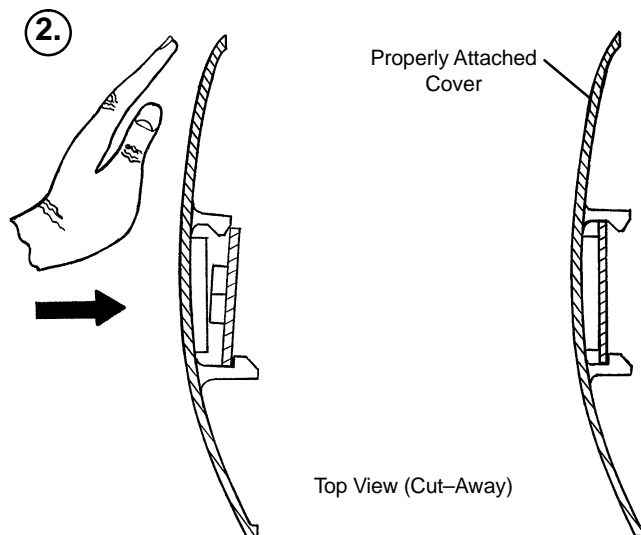
Service Information

CASTER COVER INSTALLATION AND REMOVAL



Looking through the larger of the two side cut-outs, align cover with axle nut or bolt head, as shown. Push down on the opposite side of the cover until single prong engages with caster horn.

Push with palm on cover until double prongs engage.



To remove wheel cover, insert large screwdriver into cut-out in side of wheel cover and into the space between the double prongs. Pry up cover to disengage double prongs and push sharply upward to disengage single prong.

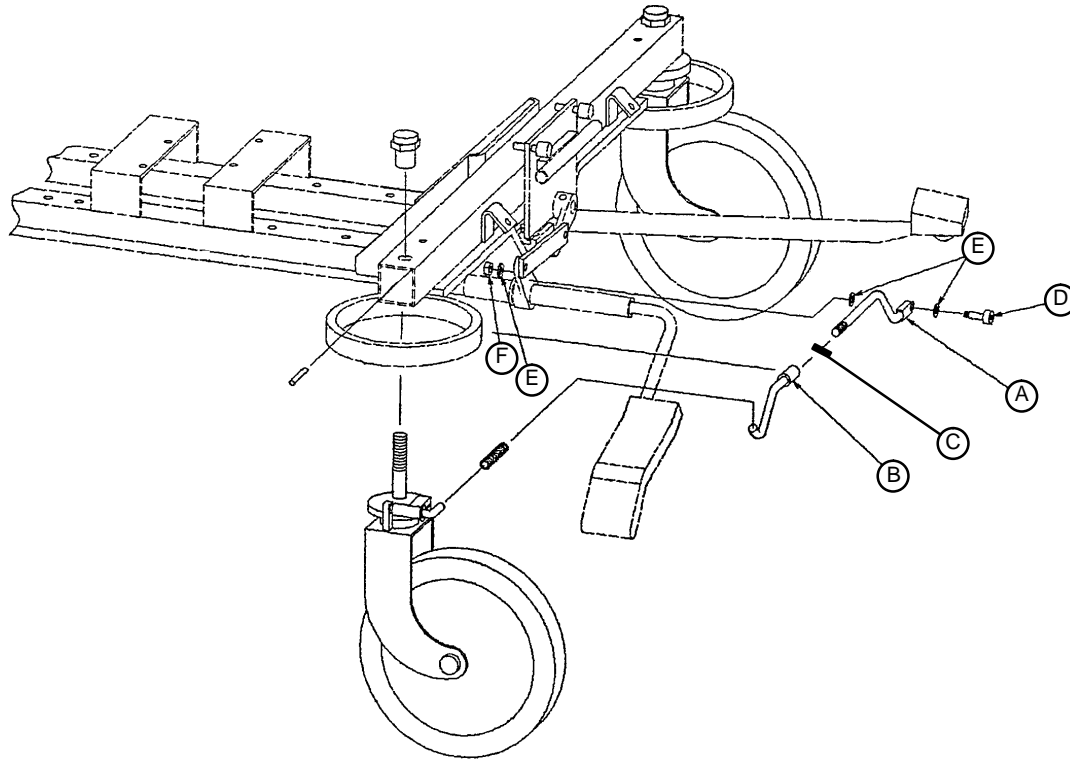
STEER CASTER LINKAGE ADJUSTMENT

Tools Required:

Phillips Head Screwdriver
5/32" Allen Wrench

3/8" Open End Wrench

1/2" Open End Wrench



Adjustment Procedure:

1. Lift up and support base hood (see page 15).
2. Using a 5/32" Allen wrench and 3/8" open end wrench, remove items (D), (E) and (F).
3. Using a 1/2" open end wrench, loosen jam nut (C).
4. Tighten item (A) into item (B) for more lever engagement or away from item (B) for less engagement.
5. To reassemble linkage, reverse steps 2 and 3.
6. Check steering wheel engagement. When properly adjusted, the locking tab should clear the notch in the steer caster when in the neutral position, and should fully engage when in steer.
7. After proper adjustment is determined, reinstall base hood.

Service Information

HYDRAULIC VALVE/RELEASE PEDAL/SPRING ADJUSTMENT

Required Tools:

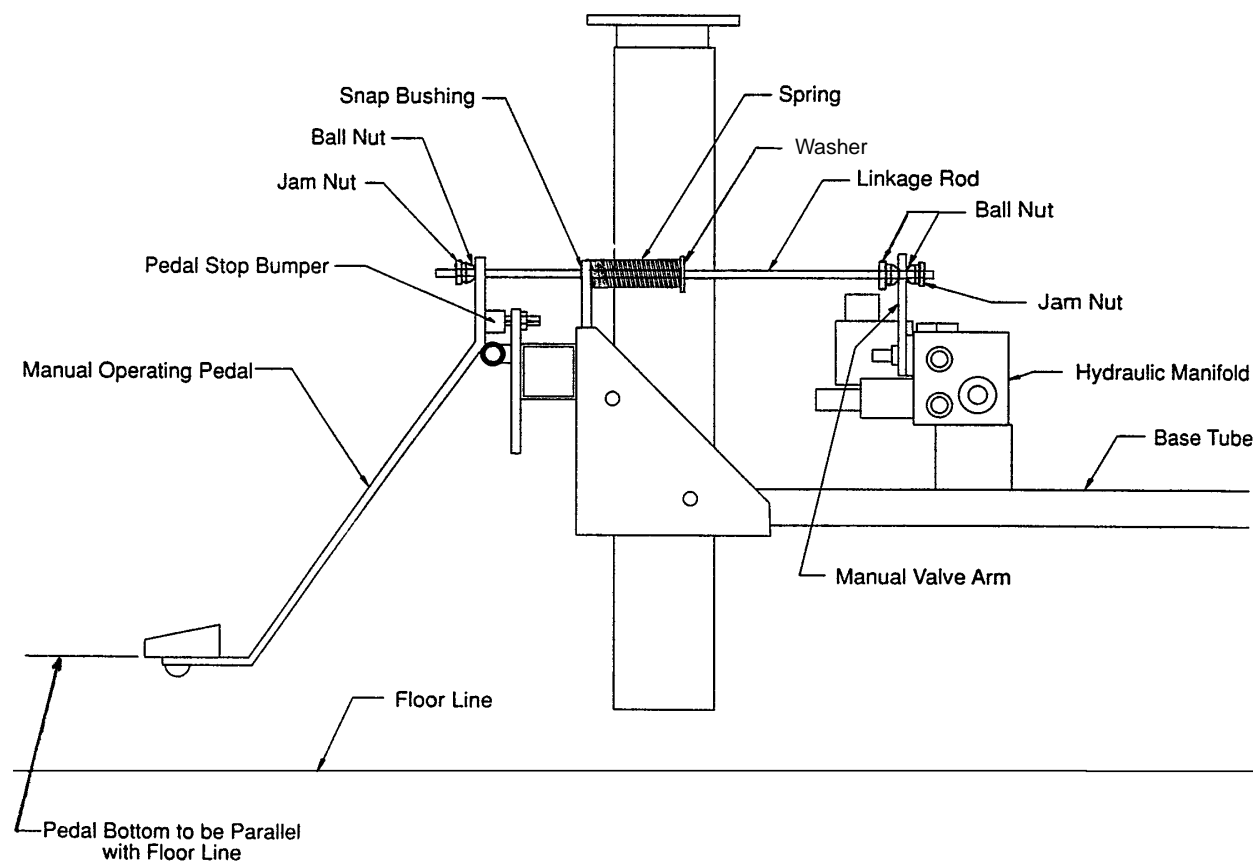
3/8" Open End Wrench (2)

7/16" Open End Wrench

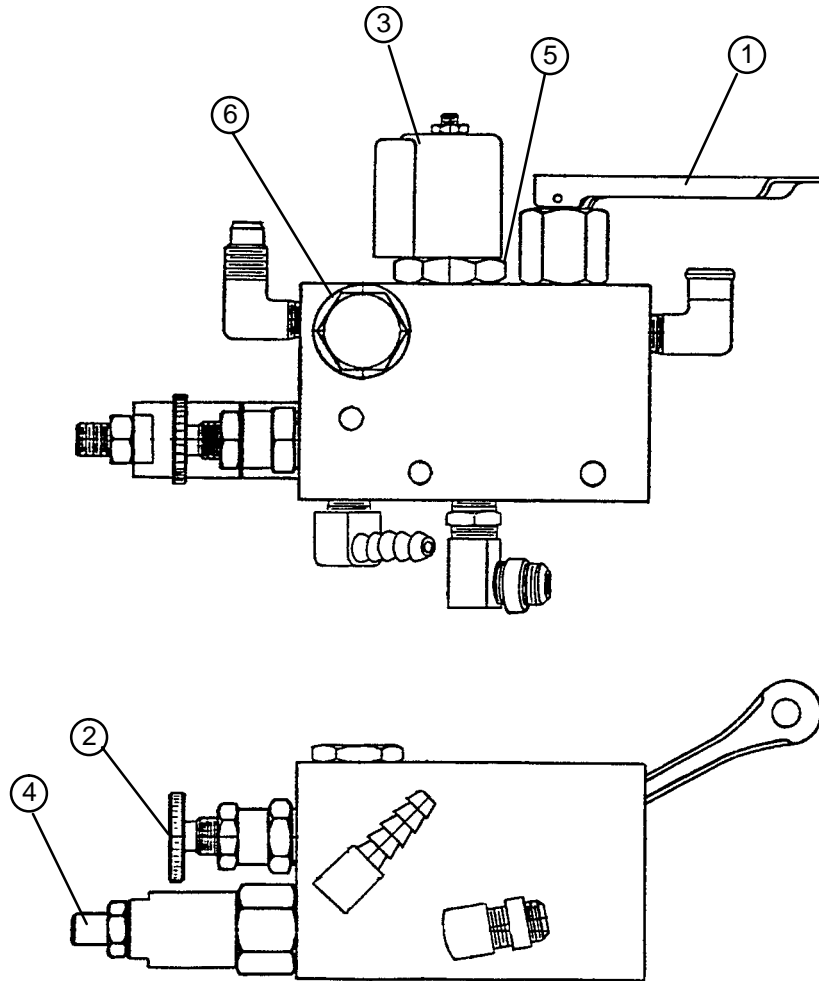
Phillips Screwdriver

Adjustment Procedure:

1. Lift and support base hood (see page 15).
2. Using a 7/16" open end wrench, adjust pedal stop bumper so that top of pedal is parallel with floor. The pedal should not be able to raise above this point.
3. After pedal stop bumper has been adjusted properly, manual valve should be closed and litter should stay firm.
4. If litter does not stay firm, adjustments to the linkage will be required.
5. Depress the pedal to the floor and be sure the return spring is completely bottomed out. If it is not, use both 3/8" open end wrenches to adjust the ball nut at the pedal end of the linkage rod. Retighten the ball and jam nut.
6. Release the pedal and adjust the ball nut at the manual valve arm so that there is approximately 1/16 inch freeplay between the valve arm and the ball nut. Retighten the ball and jam nut.
7. Reinstall the base hood (see page 15).



2020 HYDRAULIC MANIFOLD REPLACEMENT PARTS



Item	Part No.	Part Name
1	2020-170-105	Toggle Valve Assembly
2	2020-170-102	Needle Cartridge Valve Assembly
3	2020-170-106	Coil & Wire Assembly*
4	2020-170-101	Relief Valve Assembly
5	2020-170-107	Cartridge Assembly
6	2020-170-103	Check Valve Assembly

*Attached wiring harness can be used for head and foot end coil.

Service Information

ELECTRICAL TROUBLESHOOTING

Before attempting to diagnose an apparent electrical problem, be sure the power cord is plugged into a properly grounded hospital grade wall receptacle and the power switch at the foot end of the bed is on. If both these things are done, proceed with diagnosis.

WARNING

After diagnosing the problem, always unplug the power cord from the wall socket before servicing the bed.

PROBLEM/SYMPTOM	SOLUTION(S)
Bed doesn't respond to head end keypad but responds to all other keypads.	Check head end switch board (page 26). Check head end keypad cable. Replace litter control board (page 17).
Bed doesn't respond to foot end keypad but responds to all other keypads.	Check foot end switch board (page 26). Check foot end ribbon cable. Replace litter control board (page 17).
Bed doesn't respond to patient controls but responds to other keypads.	Check patient control connections. Check patient control & patient control cable. Replace litter control board (page 17).
Bed doesn't respond to any commands. All displays are dead.	Check main fuse at junction board. Check power going to litter control & power boards.
Scale system will not turn on.	Check scale system lockout toggle switch. Check scale system switch board. Replace scale CPU board (page 23).
Litter won't lift electrically.	Check motor capacitor.
Litter won't lift electrically. No motor sounds.	Check motor (push relay override button at junction board. If motor runs, it's OK) Check motor capacitor connections. Check motor capacitor. Check voltage to all boards.
Litter won't lower electrically.	Check fuse #3 at power board. Check for voltage at solenoids by placing a screwdriver on the solenoid valve stem. (The stem is magnetic when the coil is energized). The voltage at the solenoid terminals on the junction board must be at least 99 V(AC) to activate coils. Check control switch board. Check voltage to all boards.
Motor sounds "slushy", lift is not smooth.	Bleed air from system (page 7). If there are air bubbles in suction line, replace motor.
No positioning functions, power lights still on.	Check Fowler and Gatch safety switch tapes for obstruction or damage.
Fowler and Knee Gatch both move when one function activated.	Unplug each patient control to check for problem. Check litter control board.
Isolated problem(s) with Knee Gatch or Fowler motor movement.	Check fuse #2 at power board. Switch motor connectors at power board to isolate problem. Replace power board (page 25).

ELECTRICAL TROUBLESHOOTING (CONTINUED)

PROBLEM/SYMPTOM	SOLUTION(S)
Fowler and/or Knee Gatch doesn't lower during Emergency Drop mode.	Check position of switches on bellows caps. Check switch capability.
Cardiac Chair doesn't achieve proper positioning.	Check potentiometer adjustment on litter control board (page 18 & 19).
Emergency Drop delay longer than 3 seconds.	Replace litter control board (page 17).
LED position lights not accurate.	Check potentiometer positions on litter pots and litter control board pots (page 18 & 19).
Trendelenburg and/or Reverse Trendelenburg doesn't work with bed in lowest position.	Check position of switches on bellows caps. Check solenoids.
Power board hums.	Replace power board (page 25).
Weigh system shuts off prematurely.	Check connections on all weigh cables. Check individual load cells (page 21) Replace scale CPU board (page 23).
Weigh system not accurate.	Check all load cells for a physical binding on litter top. Check individual load cells in diagnostic mode (page 21). Check calibration of load cells. Replace scale CPU board (page 23).

Service Information

STATIC DISCHARGE PRECAUTIONS

The electronic circuits in the 2020 are completely protected from static electricity damage only while the bed is assembled. It is extremely important that all service personnel always use adequate static protection when servicing the electronic systems of the 2020. *Whenever you are touching wires, you should be using static protection.*

Static Protection Equipment

The necessary equipment for proper static protection is:

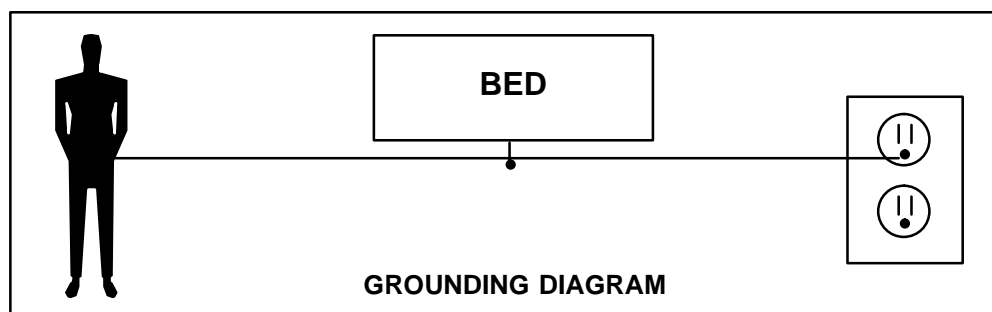
- 1 static wrist strap; 3M part number 2214 or equivalent,
- 1 grounding plug; 3M part number 61038 or equivalent,
- 1 test lead with a banana plug on one end and an alligator clip on the other; Smith part number N132B699 or equivalent.

CAUTION

All electronic service parts will be shipped in static shielding bags. Do not open the bags until you have completed steps 2 and 3 of the following procedure. Do not place unprotected circuit boards on the floor. All circuit boards to be returned to Stryker Medical should be shipped in the static shielding bags the new boards were shipped in.

Static Protection Procedure

1. Turn off the main power switch at the foot end of the bed and unplug the power cord from the wall receptacle.
2. Insert the grounding plug into a properly grounded hospital grade wall receptacle. Plug the banana plug of the test lead into the receptacle on the grounding plug. Connect the alligator clip on the other end of the test lead to the ground chain of the bed.
3. Place the static control wrist strap on your wrist. Connect the alligator clip at the other end of the wrist strap cord to the ground chain of the bed.



BASE HOOD REMOVAL AND REINSTALLATION

Required Tools:

Phillips Head Screwdriver

5/32" Ball Driver

Bungee Cords or String

Procedure:

1. Raise bed to full up and unplug power cord from wall receptacle.
2. Remove four Phillips head screws holding hood to base assembly and separate Velcro that secures hood to base tubes.
3. Secure hood to litter using bungee cords, string, etc. so that bed servicing can be easily performed.
4. If more room is needed for service, bellows can be raised above plastic bellows cap. For maximum access, disconnect bellows cover switch from its cable. Using a 5/32" Ball driver, remove two Allen bolts holding bellows cap to jack and remove bellows cap and bellows cover switch.
5. To reinstall hood after bed service has been completed, remove whatever was used in step 3 to secure hood to litter and place hood back in correct position on base assembly.
6. Reinstall four Phillips head screws that hold hood to base assembly and press down on hood to secure Velcro holding hood to base tubes.
7. If bellows cover switch was removed, place switch back into bellows cap and reconnect cables. Put bellows and bellows cap onto jack cylinder. Be sure to install caps into "cutout" groove in jack cylinder. Reinstall Allen bolts removed in step four and tighten.

CAUTION

If bellows caps are not installed in the proper location, damage to the caps and switch could occur, or insufficient activation of the switch may result.

8. Put first pleat at top of bellows around bellows cap and tuck bottom of bellows into base hood.

Service Information

FRAME END REMOVAL – FOOT END

If service is required on the electronic portions of the bed, it may be necessary to remove the frame end at the foot end of the bed.

Required Tools:

Phillips Screwdriver

Removal Procedure:

1. Using the electrical function or the manual crank, move Knee Gatch to full up.
2. Unplug power cord from wall receptacle.
3. Remove foot board from receptacles.
4. Using Phillips head screwdriver, remove two Phillips head screws located on front of frame end on frame end metal bumper.
5. Slowly lift up on frame end at footboard receptacle area and lay frame end on foot of Knee Gatch

CAUTION

Do not lift frame end quickly, electrical cables are attached to frame end.

6. To replace frame end after service is complete, reverse steps 5–3.

PATIENT CONTROL REPLACEMENT

Required Tools:

Phillips Head Screwdriver

5/32" Allen Wrench

3/8" Open End Wrench

Replacement Procedure:

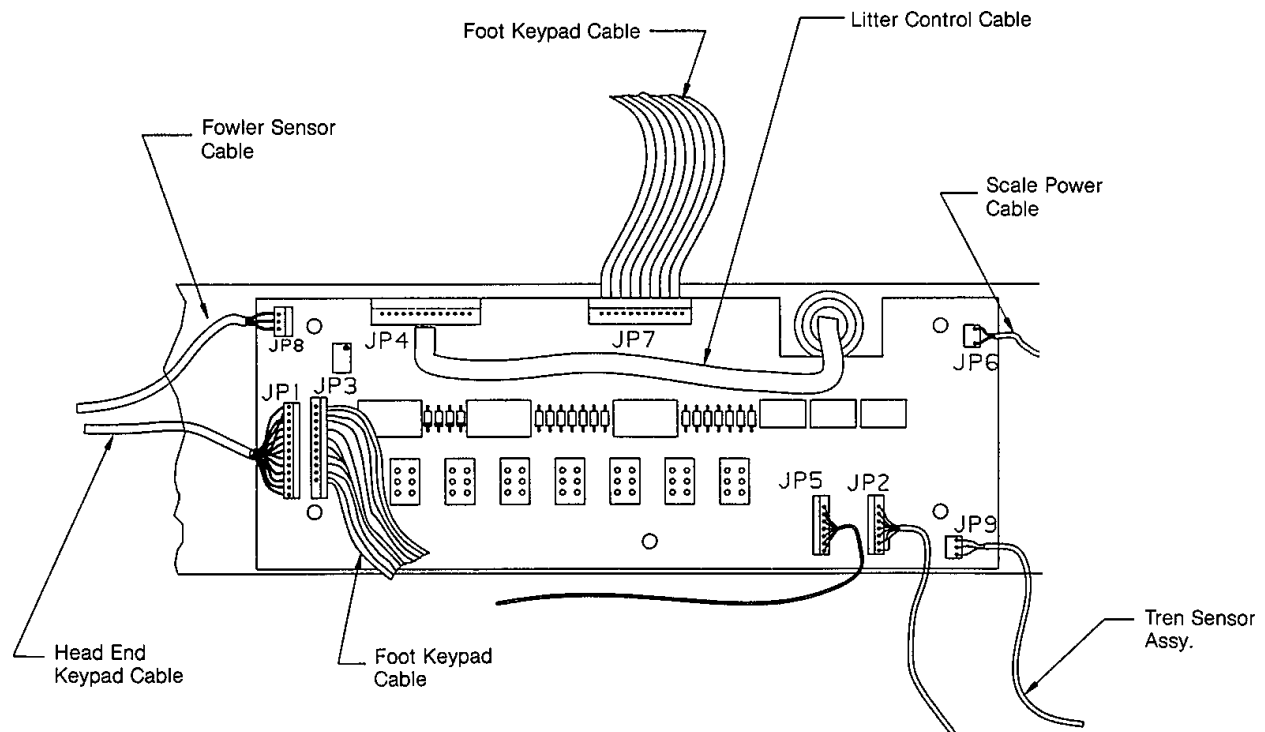
1. Unplug the power cord from the wall receptacle.
2. Using a Phillips screwdriver, remove access cover(s) located under midsection of litter at the side of the bed needing the control change.
3. Disconnect the damaged patient control from the patient control cable.
4. Using a 5/32" Allen wrench and a 3/8" open end wrench, remove fasteners and cable clamps used to attach the patient control to the bed.
5. Connect new patient control to patient control cable being sure to make the proper connection.
6. Attach new patient control to bed using fasteners removed in step 4.
7. Plug the power cord into a properly grounded wall receptacle.
8. Test functions on new patient control.
9. Reinstall access cover(s).

LITTER CONTROL BOARD REPLACEMENT (P/N 2020-2-670)

Required Tools:

Phillips Head Screwdriver

Small Screwdriver



Replacement Procedure:

1. Unplug the bed power cord from the wall receptacle.
2. Properly ground yourself (see page 14 for static discharge precautions).
3. Remove the foot end frame end (see page 16).
4. Disconnect the wires and cables from the litter board being sure to note the position of each of the connectors so the new litter board will be installed properly (see illustration above).
5. Using a small screwdriver, remove the 4 cap screws holding the litter board and remove the litter board from the spacers on the litter computer plate.
6. Using the cap screws, install the new litter board on the spacers.
7. Reconnect all wires and cables removed in step 4 (see illustration).
8. R8, R9, and R17 must be adjusted if bed has LED position option (see pages 18 and 19).
9. Reinstall the frame end (see page 16).
10. Plug the power cord into a properly grounded wall receptacle. Check all bed operations before returning the bed to service.

Service Information

LITTER CONTROL BOARD ALIGNMENT

Required Tools:

Phillips Head Screwdriver
Volt/Ohm Meter
Red Lacquer (Finger Nail Polish)

3/32" Allen Wrench
Jewelers Screwdriver

Needle–Nose Pliers
Thread Loctite

Fowler Display Alignment Procedure:

NOTE

The following procedure is necessary when replacing the litter control board or when LED alignment is not correct on Fowler and Trend. LED positioning.

Mechanical Alignment of the Fowler Potentiometer Shaft:

NOTE

The Fowler potentiometer shaft is located under the litter midsection at the patient's right side.

1. Using a Phillips screwdriver, remove the access panel under the litter midsection.
2. Using a 3/32" Allen wrench, loosen the set screws holding the Fowler pot shaft in the linkage arm.
3. Using the manual crank, lower the Fowler to flat.
4. Using needle–nosed pliers, turn the Fowler pot shaft fully clockwise to its mechanical stop.
5. Remove the foot end frame end (see page 16).
6. Unplug the Fowler pot cable and measure the resistance between the black wire and the green wire. Turn the Fowler pot so that the resistance is between 55 and 65 ohms; lock down the set screws holding the Fowler pot shaft and measure the resistance again.
7. Apply thread loctite compound to the set screws.
8. Reinstall the access panel.

Electrical Alignment of the Fowler Potentiometer:

1. Complete the mechanical procedure above.
2. Raise the Fowler to full up.
3. Using a jewelers screwdriver, adjust R8 on the litter control board so that the 90 degree LED on the Fowler display is lighted. (Turning R8 clockwise will move the lighted LED toward the 0 degree end of the display). Adjust R8 so that it is positioned in the center of the range that keeps the 90 degree LED lighted. This point is approximately 5 turns past the point at which the LED first lights.
4. Paint the adjusting screw of R8 with red lacquer.

Trendelenburg Display Alignment Procedure:

Mechanical Alignment of the Trendelenburg Potentiometer Linkage:

NOTE

The Trendelenburg potentiometer linkage is located under the frame end at the patient's head, left side.

1. Using a 3/32" Allen wrench, loosen the set screws securing the Trend pot shaft in the linkage arm.
2. Using the foot pedal, raise the bed fully. Again, using the foot pedal, put the bed in full reverse Trendelenburg.

LITTER CONTROL BOARD ALIGNMENT (Continued):

Trendelenburg Display Alignment Procedure (Continued):

Mechanical Alignment of the Trendelenburg Potentiometer Linkage (Continued):

1. Using a jewelers screwdriver, turn the Trend pot shaft fully clockwise to its mechanical stop.
2. Remove the foot end frame end (see page 16).
3. Unplug the Trend pot cable and measure the resistance between the black wire and the green wire. Turn the Trend pot so that the resistance is between 14 and 16 ohms. Lock down the set screws holding the Trend pot shaft and measure the resistance again.
4. Place approximately 200 pounds on the litter (sit near the head end of the bed). The resistance measurement should not exceed 23 ohms with the weight on the litter. Repeat steps 5 and 6, if necessary.
5. Apply thread lock compound to the set screws.

Electrical Alignment of the Trendelenburg Display:

1. Complete the mechanical procedure above.
2. Using the foot pedal, raise the bed fully. Again, using the foot pedal, put the bed into full Trendelenburg.
3. Using a jewelers screwdriver, adjust R9 on the litter control board so that the +12 degree LED on the Trend display is lighted. (Turning R9 clockwise will move the lighted LED towards the -12 degree end of the display). Adjust R9 so that is positioned in the center of the range that keeps the +12 degree LED lighted. This point is approximately 3 turns past the point at which the +12 degree LED first lights.
4. Paint the adjusting screw of R9 with red lacquer.

Cardiac Chair Fowler Limit Alignment Procedure:

Mechanical Alignment:

1. Complete the Fowler pot mechanical alignment procedure.
2. Raise the bed fully with the litter level. Raise the Fowler to 90 degrees using an inclinometer or a protractor to achieve the correct angle.

Electrical Alignment:

1. Complete the mechanical procedure above.
2. Remove the foot end frame end (see page 16).
3. Using a jewelers screwdriver, adjust R17 on the litter control board so LED 1 on the control board switches from brightly lighted to dim. Adjust R17 so it is positioned in the center of the range of adjustment that keeps the LED dim. This point is approximately 1 1/2 turns past the point at which the LED first goes dim.
4. When properly adjusted, the Fowler should stop between 40 degrees and 50 degrees in cardiac chair. Test with the Fowler starting at 0 degrees and again with the Fowler at 90 degrees. Turning R17 clockwise one turn will raise the Fowler stopping point approximately 3 degrees.
5. Paint the adjusting screw of R17 with red lacquer.
6. Reinstall the foot end frame end.

Service Information

SCALE SYSTEM DIAGNOSTICS AND SERVICE

Diagnostic Mode Functions:

1. **Download Barcode:** This is a factory set-up mode and is not used in the field.
2. **Calibrate Scale:** This may be required in the field if replacement of several load cell assemblies or of the scale CPU is required. Replacement of a single load cell assembly does not normally require this procedure.
3. **Change LBS/Volts:** This is required whenever a load cell assembly or a scale CPU is changed in the field.
4. **Change Ref. Volts:** This is a factory set-up mode and is not used in the field.
5. **Init. to Defaults:** This will be required in the field when replacing the scale CPU board.
6. **Display Corner:** This function displays the individual corner weights for each load cell assembly and can be used to isolate a defective load cell.
7. **Serial Option (If so equipped):** This enables the scale system remote display port.
8. **Quit/Save:** This exits the diagnostic mode. Changes made in the diagnostic mode (with the exception of Calibrate Scale) must be saved in permanent memory using this function. Quitting without saving will reset all variables to their previous values, as will unplugging the bed power cord without using the save function.

Entering Diagnostic Mode:

1. To enter diagnostic mode, remove power from the scale system by switching the scale lockout switch toward the foot of the bed.
2. Press and **hold down** the LBS/KGS key.
3. While still holding the LBS/KGS key, switch the scale lockout switch toward the head of the bed.
4. After two seconds, release the LBS/KGS key. The scale monitor should read DOWNLOAD BARCODE. The diagnostic mode is now active.

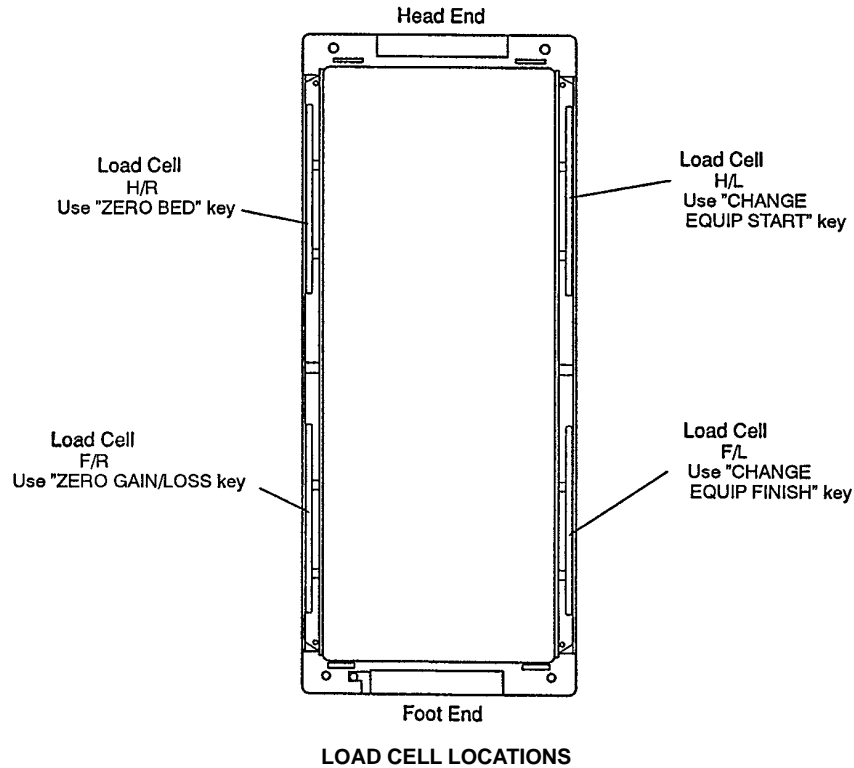
Special Key Functions in the Diagnostic Mode:

1. The four keys on the left side of the green scale key grouping function as **POSITION** keys, corresponding with the four corners of the bed litter. Whenever the scale monitor displays "PICK CORNER NOW", press one of these keys to select the load cell assembly at the desired corner.
 - a. ZERO BED = Head end, patient's right side.
 - b. ZERO/GAIN LOSS = Foot end, patient's right side.
 - c. CHANGE EQUIP. START = Head end, patient's left side.
 - d. CHANGE EQUIP. FINISH = Foot end, patient's left side.

Displaying Individual Load Cell Outputs:

A faulty load cell can be detected by entering diagnostics and displaying individual load cell outputs.

1. Enter the diagnostic mode. The scale monitor will display DOWNLOAD BARCODE when the diagnostic mode is active.
2. Press and release LBS/KGS until the scale monitor displays DISPLAY CORNER.
3. Press and release WEIGHT SYSTEM ON. The scale monitor should display PICK CORNER NOW.
4. Press and release the position key that corresponds with the load cell to be checked. The scale monitor should display XX=NNN.N. "XX" represents the initials of the selected corner, i.e. H/R will be displayed for the patient's head end, right side. "NNN.N" represents the actual weight load on the load cell.
5. Repeat step four for each corner. Head end weight readings will normally be lower than foot end weights. Weight readings should be constant. A jumpy, drifting 000.0 or 999.9 weight indicates a problem with the selected load cell assembly or load cell cable.
6. When all the load cell outputs have been checked, press and release WEIGHT SYSTEM ON.
7. Press and release LBS/KGS until the scale monitor displays QUIT/SAVE.
8. Press and release WEIGHT SYSTEM ON. The scale monitor should shut off after one second.



Service Information

Replacing a Load Cell:

Required Tools:

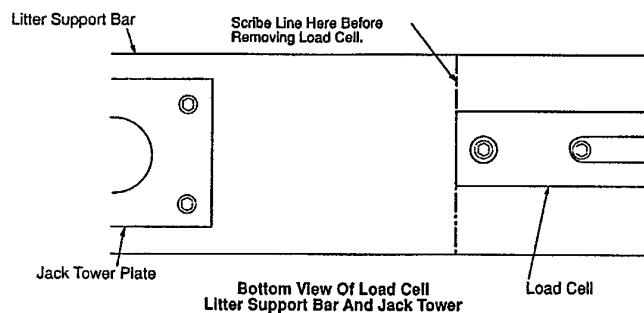
3/16" Allen Socket
3M Static Protection

10 Ft. Lb. Torque Wrench
5/64" Allen Wrench

Saw Horse(s)
Pencil

Replacement Procedure:

1. Unplug the power cord from the wall receptacle.
2. Properly ground yourself (see page 14 for static discharge precautions).
3. Using a 5/64" Allen wrench, remove the two cap screws holding the plastic cover to the load cell mounting block.
4. Disconnect the cable from the load cell.



5. Using a pencil, draw a line on the underside of the litter crossbar along the end of the load cell mounting block to use for reference when installing the new load cell (see illustration).
6. Using blocks, sawhorses, etc., support the litter under the frame end at the end of the bed where the load cell is being removed.
7. Using a 3/16 Allen wrench, remove the two cap screws holding the load cell to the litter support bar.
8. Pull the load cell out of the mounting block. Do not lose the nylon spacer between the load cell and the stop pin. It is used with the new load cell.

NOTE

Metal shims are used when shipping new load cell assemblies. Remove and discard these shims after installing the new load cell.

9. Install the new load cell being sure to have the strain gauge facing down. The strain gauge should be visible through the slot in the load cell mounting block or the scale readings will be incorrect.
10. Line up the end of the load cell mounting block with the line drawn on the underside of the litter crossbar. Install the two cap screws and tighten them to 8–10 foot-pounds torque.
11. Connect the cable to the weigh board and reattach the plastic cover to the load cell mounting block. The new "value number" must now be entered in the memory.

Replacing Scale CPU:

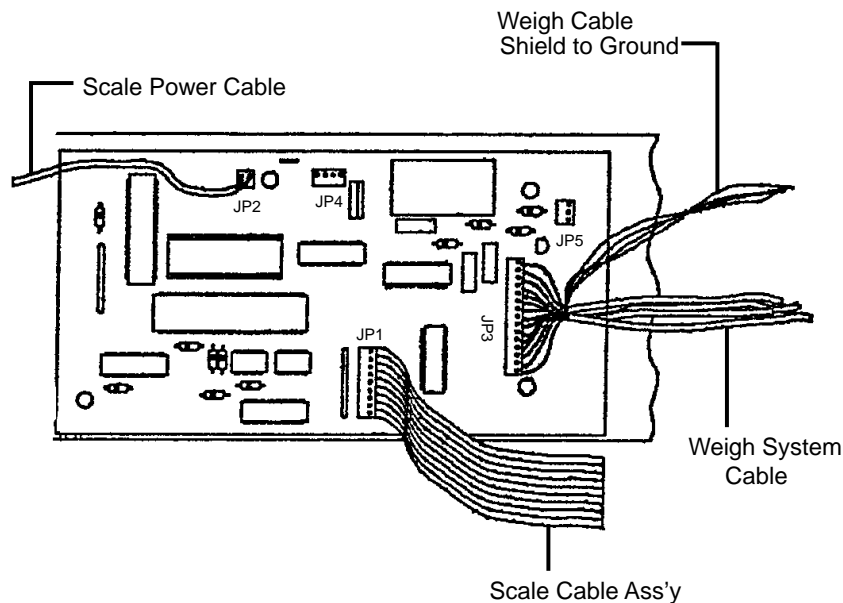
Required Tools:

Phillips Head Screwdriver

Small Screwdriver

Replacement Procedure:

1. Unplug the power cord from the wall receptacle.
2. Properly ground yourself (see page 14 for static discharge precautions).
3. Remove the foot end frame end from the litter (see page 16 for instructions).
4. Remove the connectors from the scale CPU circuit board (see illustration). Note the orientation and placement of the connectors so they will be attached properly to the new scale CPU board.



5. Using a small screwdriver, remove the four screws holding the scale CPU board and carefully remove the CPU board from the spacers on the litter computer plate.
6. Place the new scale CPU board over the spacers and reinstall the four screws.
7. Attach the connectors to the scale CPU board. Be sure to orient the connectors properly.

Calibration Procedure:

1. Place the new CPU board in diagnostics mode.
2. Push the scale lockout toggle switch (located under the foot end control panel) to the off position.
3. Press and hold the LBS./KG. button and push the toggle switch back to the on position.
4. Release the LBS./KG. button. The scale display should read "DOWNLOAD BARCODE".
5. Repeatedly press and release the LBS./KG. button until the display reads "INIT TO DEFAULTS".
6. Press and hold the WEIGHT SYSTEM ON button until the display reads "DEFAULTS ENTERED".
7. Repeatedly press and release the LBS./KG. button until the display reads "CALIBRATE SCALE".
8. Press and hold the WEIGHT SYSTEM ON button. Zero the scale, following the displayed instructions. When the scale is zeroed, the scale monitor will display "REF X 100 = <2>0000. This reference number represents 200 pounds.
9. If the weight being used for calibration is not 200 pounds, the reference number must be changed to match the weight. To change the reference number, use the LBS./KG. button to position the brackets (< >) around the digit to be changed and the LOCK/UNLOCK button to scroll through the numbers.

Service Information

Calibration Procedure (Continued):

10. After the reference number is corrected, press and release the WEIGHT SYSTEM ON button. The scale display should read "ADD LBS, HIT ON".
11. Verify the litter surface is flat. Place the weight being used for calibration in the center of the litter.
12. Repeatedly push and release the LBS./KG. button until the display reads "QUIT/SAVE".
13. Push and hold the WEIGHT SYSTEM ON button until the display reads "SAVE COMPLETE". Release the WEIGHT SYSTEM ON button. The scale system will shut off after approximately 1 second.
14. Remove the weight from the bed. Press the WEIGHT SYSTEM ON button to turn on the scale. Zero the scale and test it to verify accurate weight readings.
15. Reinstall the frame end (see page 16).

POWER BOARD REPLACEMENT (P/N 2020-16-950)

Required Tools:

Phillips Head Screwdriver

Small Screwdriver

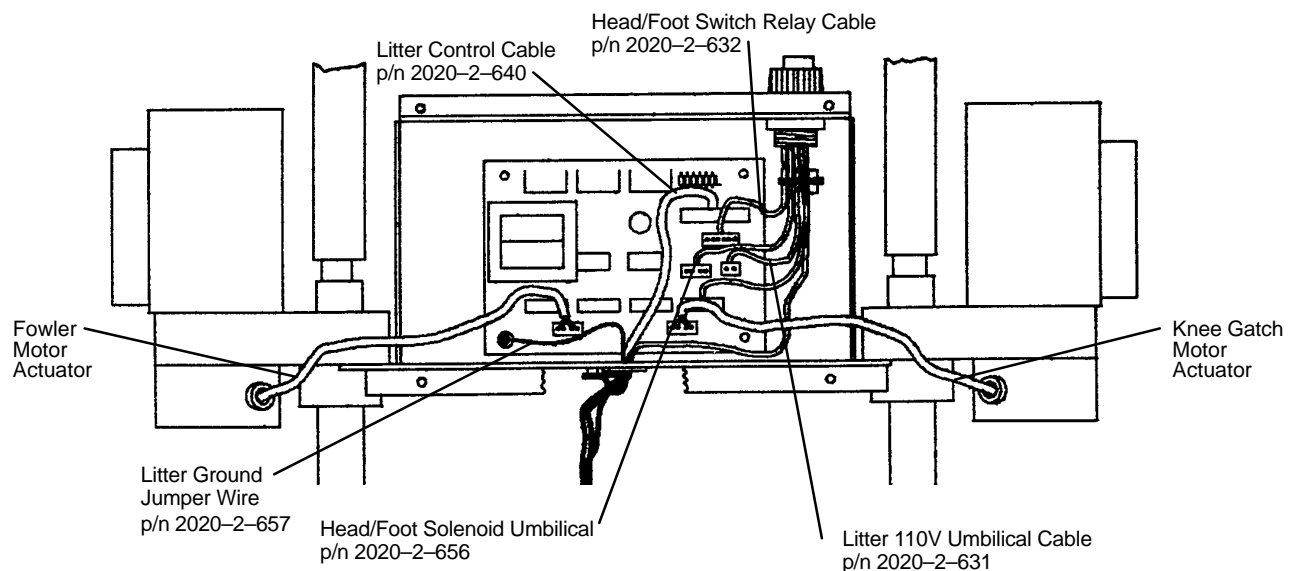
5/16" Nut Driver

Replacement Procedure:

WARNING

After diagnosing the problem, always unplug the power cord from the wall socket before servicing the bed.

1. Unplug the bed power cord from the wall receptacle.
2. Properly ground yourself (see page 14 for static discharge precautions).
3. Using a Phillips screwdriver, remove the plastic cover located under the Knee Gatch assembly.
4. Disconnect the cables from the circuit board being sure to note the positioning of the connectors (see illustration).



LITTER CONTROL BOARD CONNECTIONS

5. Using a small screwdriver, remove the top two screws that secure the litter board to the board housing.
6. Using a 5/16" nut driver, remove the bottom two fasteners that secure the litter board to the board housing.
7. Carefully remove the litter board from the housing.
8. Install the new board and reattach all cables, being sure to properly connect all cables properly (see illustration).
9. Reinstall the plastic cover.
10. Plug the bed into a properly grounded wall receptacle.
11. Test all bed functions before returning the bed to service.

JUNCTION BOARD REPLACEMENT

Required Tools:

Phillips Head Screwdriver
Small Screwdriver

Bungee Cord
5/16" Nut Driver

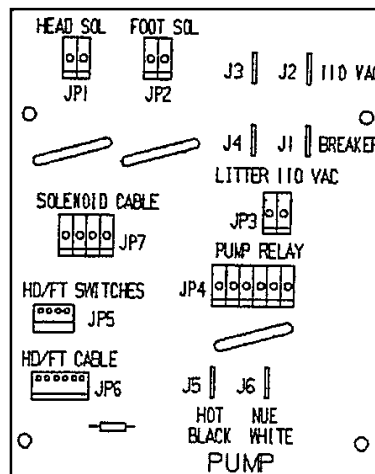
5/32" Ball Driver

Replacement Procedure:

WARNING

After diagnosing the problem, always unplug the power cord from the wall socket before servicing the bed.

1. Unplug the bed power cord from the wall receptacle.
2. Properly ground yourself (see page 14 for static discharge precautions).
3. Lift and support the base hood (see page 15).
4. Using a 5/16" nut driver, remove the 2 self-tapping screws holding the junction board cover to the junction board enclosure.

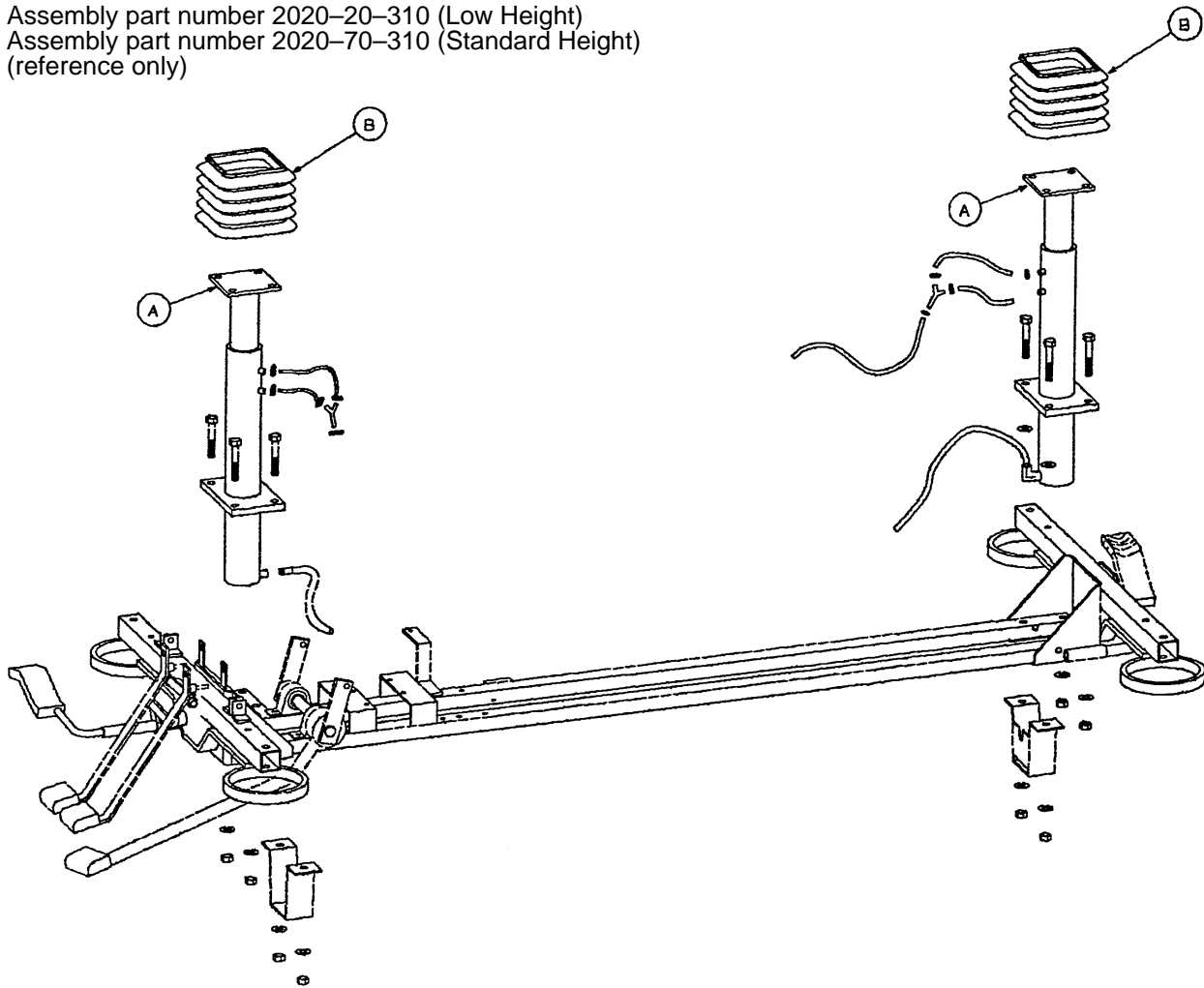


JUNCTION BOARD
p/n 2020-2-611

5. Disconnect the wires and cables from the junction board being sure to note the position of each of the connectors so the new junction board will be installed properly (see illustration above).
6. Using a small screwdriver, remove the 4 nylon screws holding the junction board to the spacers on the junction board enclosure.
7. Install the new junction board onto the spacers using the fasteners removed in step 6.
8. Reconnect all wires and cables removed in step 5 to the new junction board (see illustration).
9. Reinstall the junction board cover using the 2 self-tapping screws removed in step 4.
10. Reinstall the base hood (see page 15).
11. Plug the bed into a properly grounded wall receptacle.
12. Test all bed functions before returning the bed to service.

Base Assembly, Low Height & Standard Height

Assembly part number 2020-20-310 (Low Height)
 Assembly part number 2020-70-310 (Standard Height)
 (reference only)



2020-20-310

2020-70-310

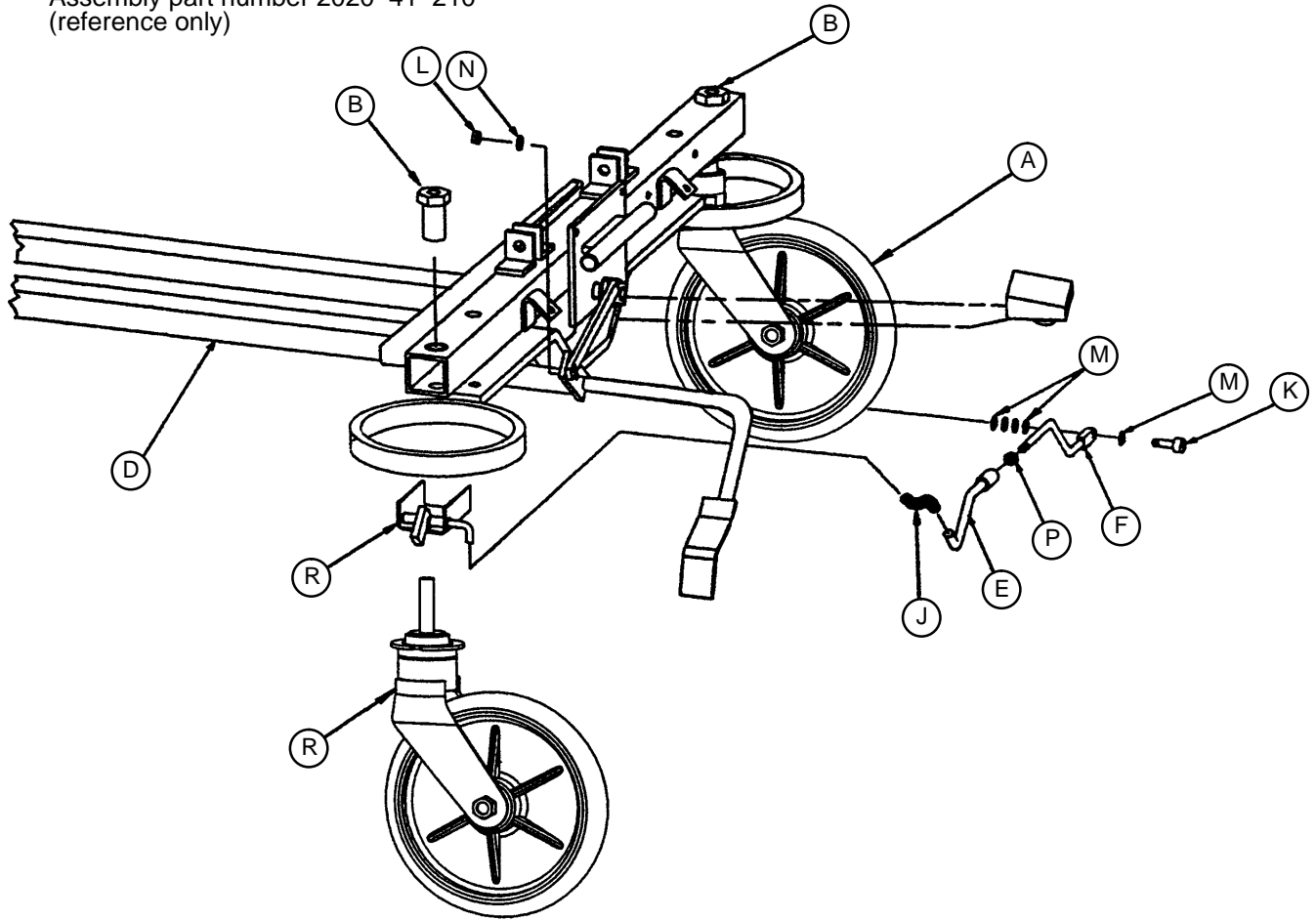
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	2020-20-355	Cylinder Assembly	2	A	2020-70-355	Cylinder Assembly	2
B	958-1-214	Bellows	2	B	2020-1-275	Bellows	2

NOTE

See drawing number 2020-70-210, Hydraulics Base Assembly, (page 41 & 40) for cylinder installation.

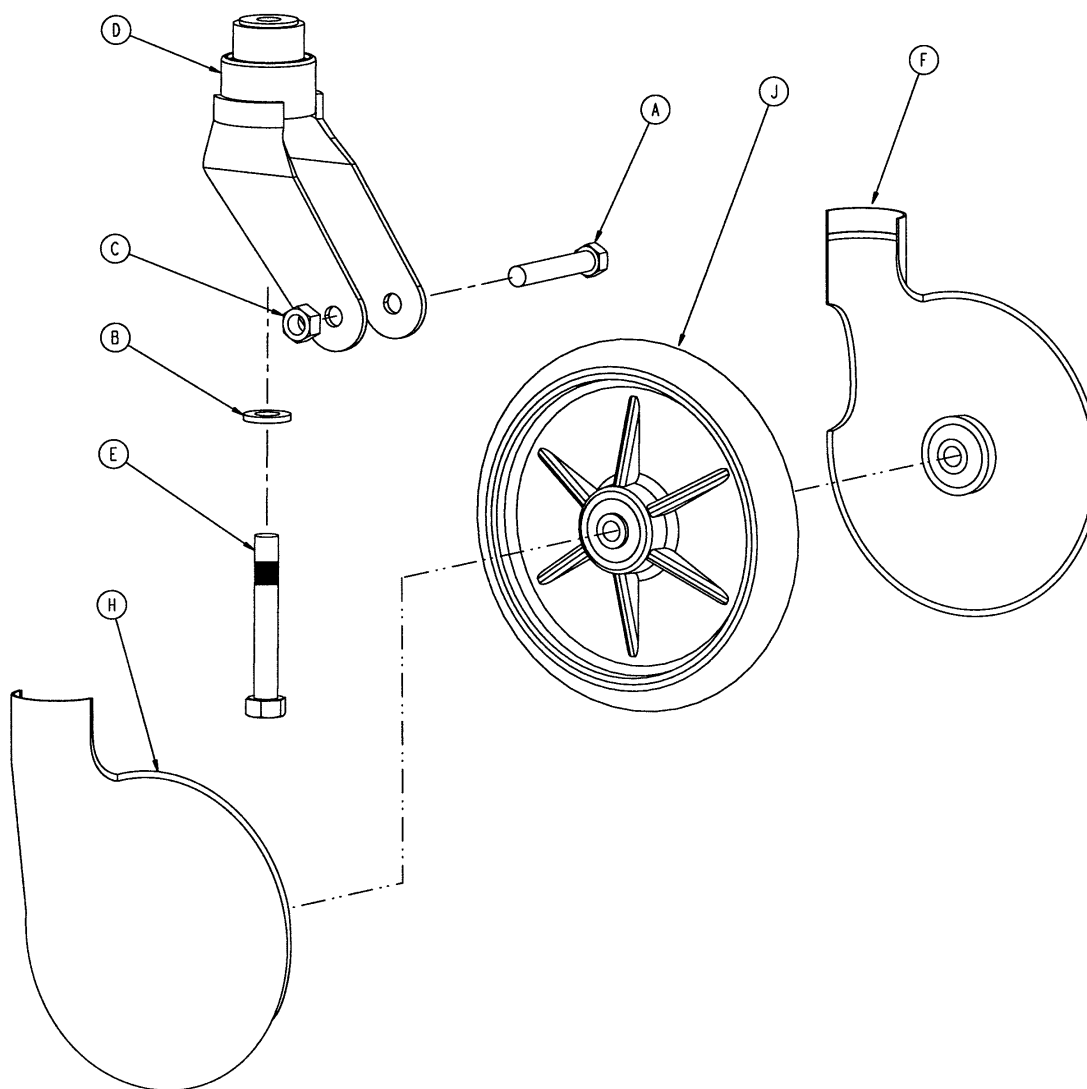
Caster/Base Frame Assembly

Assembly part number 2020-41-210
(reference only)



Item	Part No.	Part Name	Qty.
A	(page 30)	Caster Assembly	3
B	715-1-158	Caster Nut	4
C	1000-59-10	Steer Latch Assembly	1
D	(page 33)	Base Assembly	1
E	2020-46-215	Linkage Bar Assembly	1
F	2020-46-218	Linkage Bar, Right	1
J	38-211	Compression Spring	1
K	8-21	Shoulder Bolt	1
L	16-2	Fiberlock Nut	1
M	14-2	Nylon Washer	5
N	14-4	Nylon Washer	1
P	15-32	Jam Nut	1
R	(page 31)	Caster Ass'y w/Steer	1

Caster and Caster Cover Replacement Kits



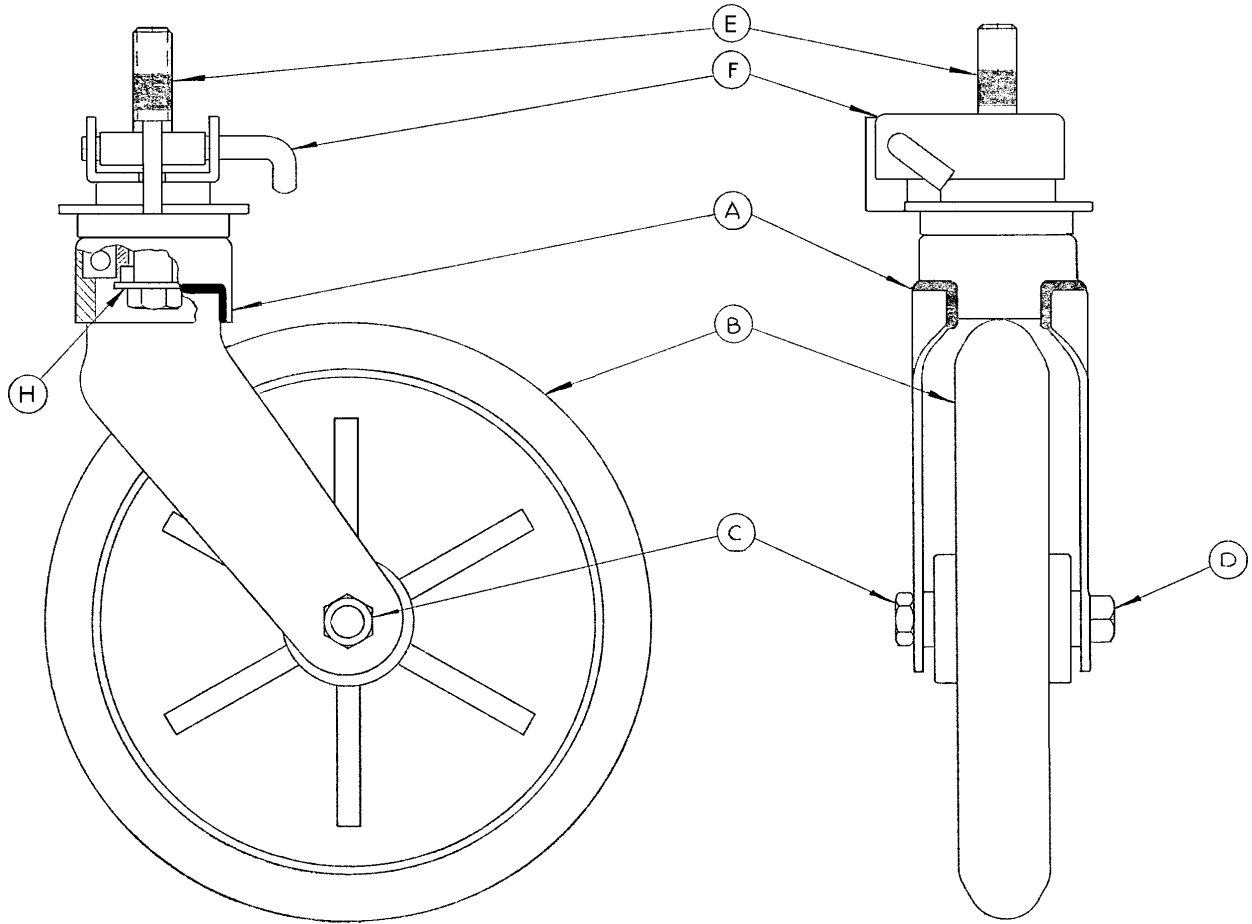
Item	Part No.	Part Name	Qty.
A	3-99	Hex Hd. Cap Screw	1
B	11-310	Washer	1
C	16-60	Hex Nut	1
D	715-2-16	Horn Assembly	1
E	715-3-96	Hex Hd. Cap Screw	1
F	715-1-265	Wheel Cover, Right	1
H	715-1-266	Wheel Cover, Left	1
J	715-2-25	Wheel	1
	715-1-158	Caster Nut (not shown)	1

P/N 715-269-400 – Kit to replace 3 standard caster assemblies and 1 steerlock caster with necessary hardware – no caster covers.

P/N 715-259-100 – Kit to replace 1 standard caster assembly with necessary hardware – no caster covers.

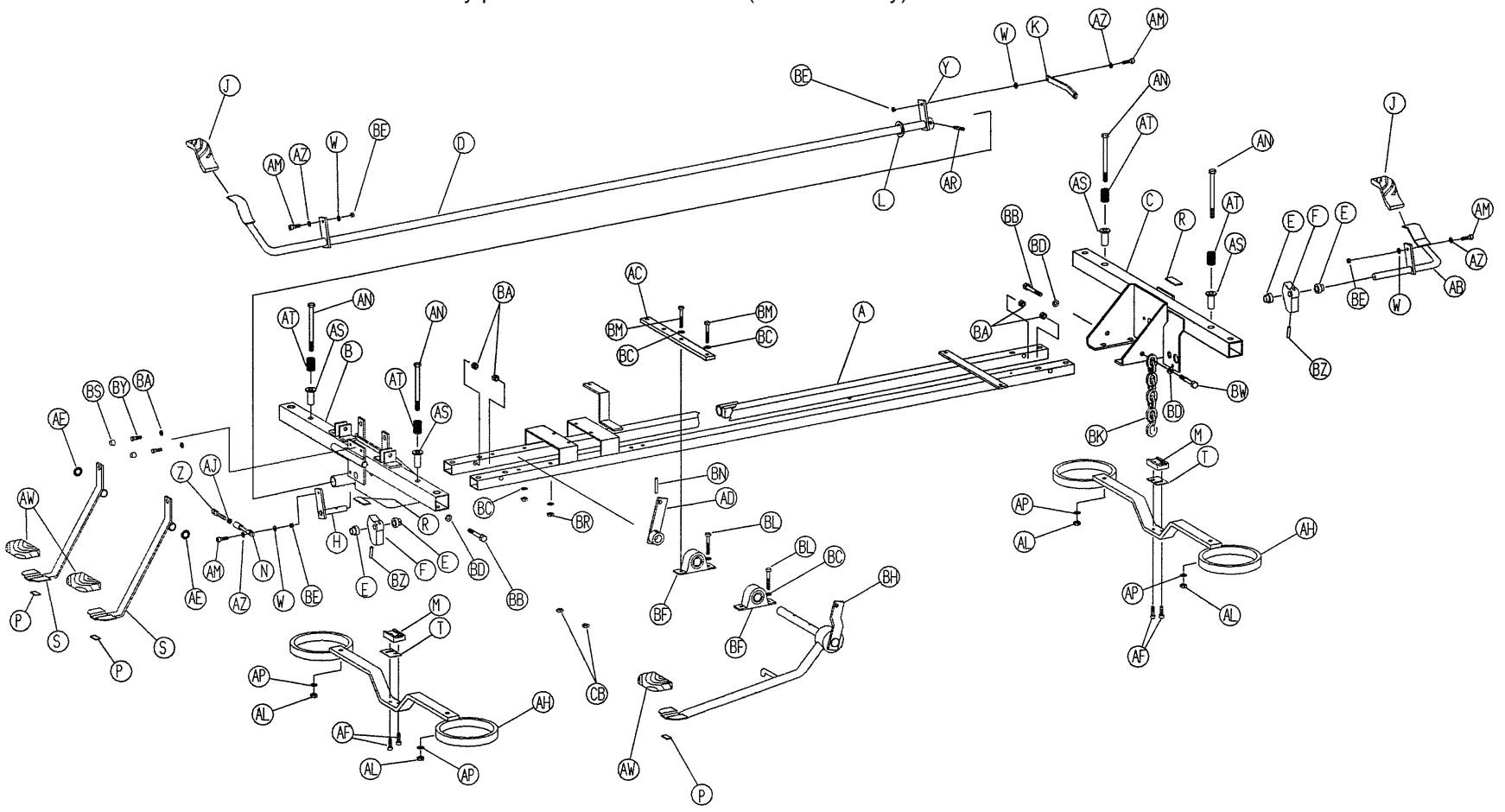
P/N 1010-56-200 – Kit to replace both caster covers on all four wheels.

715-2-21 Caster Assembly with Steerlock



Item	Part No.	Part Name	Qty.
A	700-10-50	Steer Lock Caster Weldment	1
B	715-2-25	Caster Wheel	1
C	16-60	Hex Nut	1
D	3-99	Hex Bolt	1
E	715-3-96	Hex Bolt	1
F	1000-59-10	Latch Assembly	1
H	11-310	Flat Washer	1

Assembly part number 2020-1-210 (reference only)

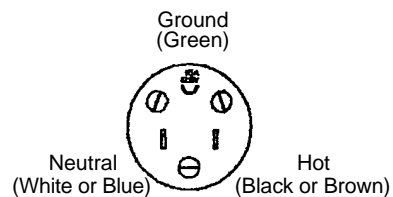
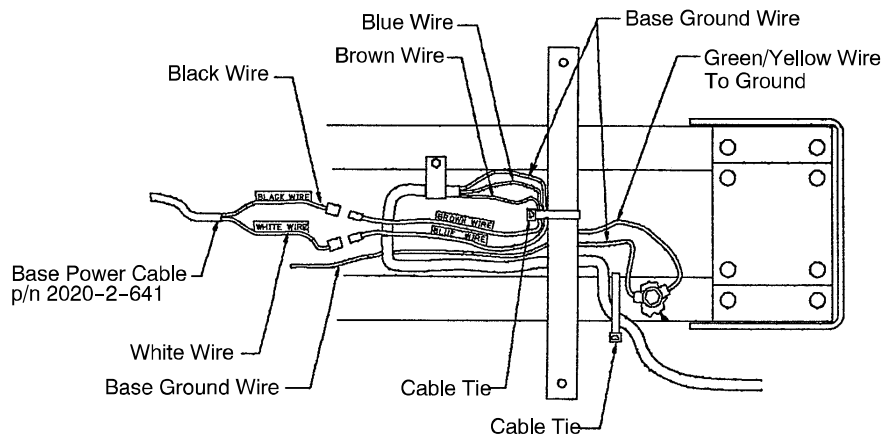
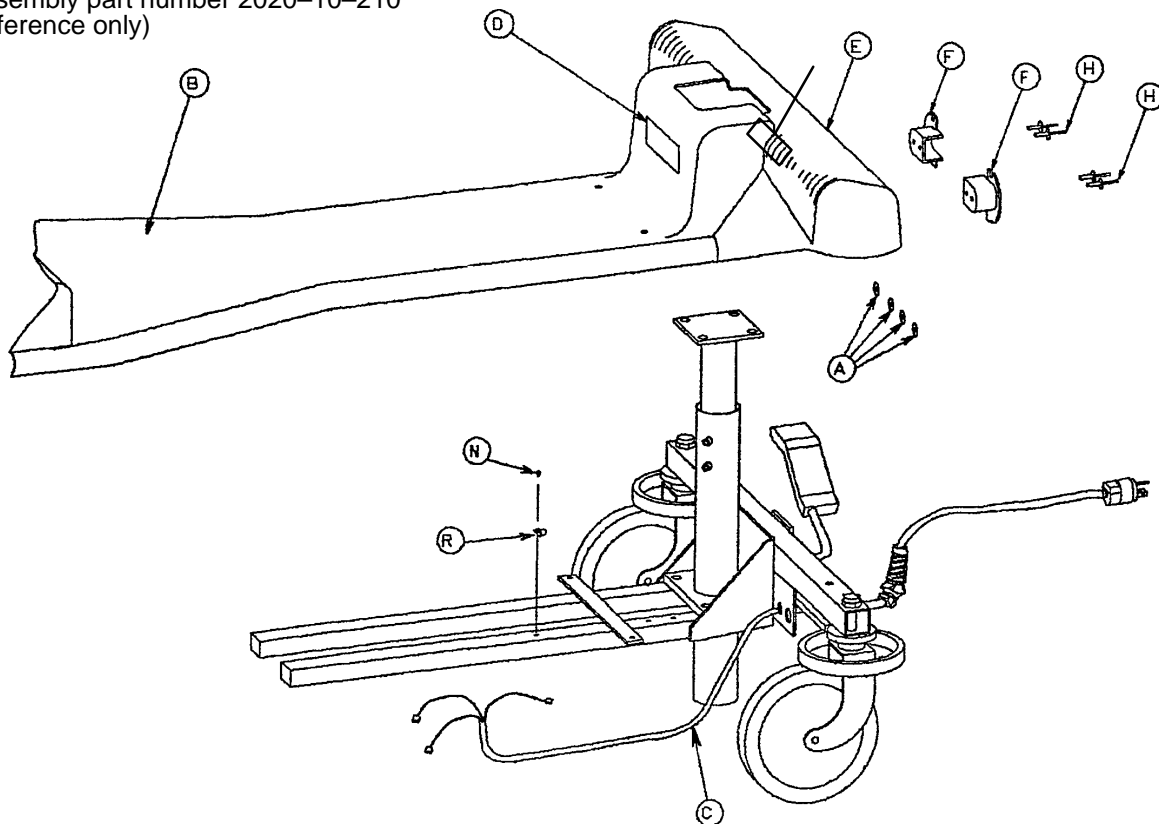


Base Assembly

Item	Part No.	Part Name	Qty.
A	2222-1-217	Base Tube Ass'y	1
B	2020-1-270	Ft. End Cas. Tube Ass'y	1
C	2020-2-271	Hd. End Cas. Tube Ass'y	1
D	2020-1-394	Brake Rod Ass'y, Foot	1
E	958-1-231	Cam Bushing	4
F	2020-1-389	Cam (Machined)	2
H	2020-1-386	Brake Arm & Cam Shaft	1
J	716-1-275	Brake Pedal	2
K	2020-1-390	Brake Arm Conn. Link	1
L	14-40	Washer	4
M	2020-1-358	Cam Pad	2
N	2020-46-225	Brake Link Ass'y	1
P	2020-1-703	Bumper Tread	3
R	7900-1-102	Velcro Pad	2
S	2020-1-370	Pedal Lever Assembly	2
T	938-1-144	Shim	2
W	14-4	Washer	4
Y	715-1-165	Actuator Plate Ass'y	1
Z	2020-46-228	Threaded Brake Link	1
AB	2020-1-395	Hd. End Brake Rod	1
AC	2020-1-225	Pump/Motor Supt. Brkt.	1
AD	2020-1-250	Cylinder Oper. Lever, Rt.	1
AE	28-56	Retaining Ring	2
AF	4-9	Soc. Hd. Cap Screw	4
AH	2020-1-357	Brake Bar Assembly	2
AJ	15-32	Jam Nut	1
AL	16-12	Flexlock Nut	4
AM	8-17	Shoulder Bolt	4
AN	3-105	Hex Hd. Cap Screw	4
AP	11-4	Flat Washer	4
AR	26-14	Roll Pin	1
AS	938-1-75	Guide, Brake Shaft	4
AT	38-97	Spring	4
AW	721-40-25	Pedal	3
AZ	14-2	Washer	4
BA	16-6	Kep Nut	6
BB	3-67	Hex Hd. Cap Screw	3
BC	11-193	Flat Washer	10
BD	11-2	Washer	4
BE	16-2	Fiberlock Nut	4
BF	2020-1-268	Pillow Block Bearing	2
BH	2020-1-366	Pump Bar & Shaft Ass'y	1
BK	390-1-176	Grounding Chain	1
BL	3-62	Hex Hd. Cap Screw	2
BM	3-84	Hex Hd. Cap Screw	2
BN	26-169	Groove Pin	1
BR	16-36	Nylock Nut	6
BS	37-11	Neoprene Cap	2
BW	3-79	Hex Hd. Cap Screw	1
BY	3-4	Hex Hd. Cap Screw	2
BZ	26-196	Groove Pin	2
CB	15-22	Hex Nut	2

Base Assembly with Standard Power Cord

Assembly part number 2020-10-210
(reference only)

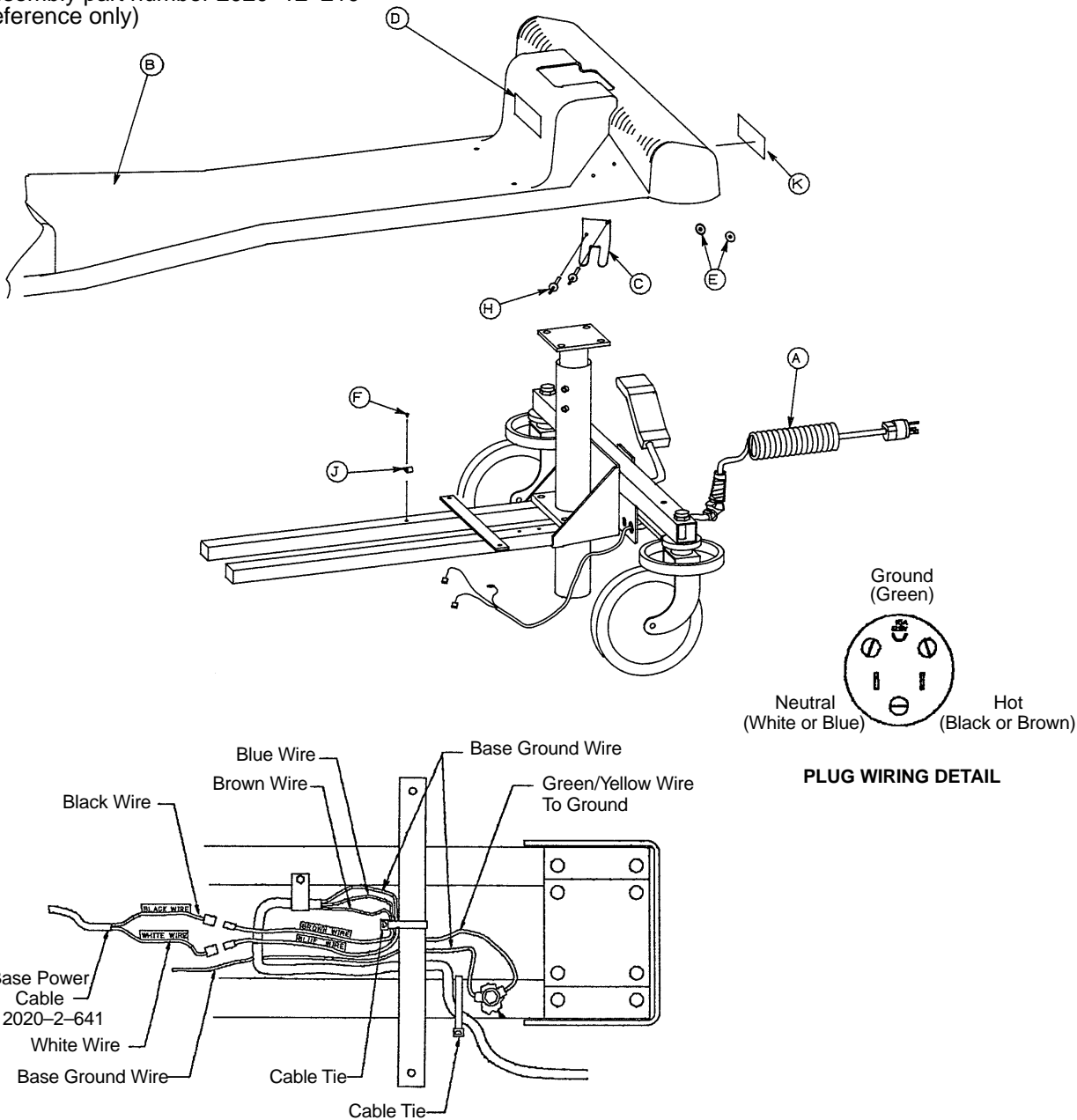


PLUG WIRING DETAIL

Item	Part No.	Part Name	Qty.
A	11-156	Washer	4
B	2020-1-213	Hood Assembly	1
C	2020-2-680	Power Cord	1
D	2020-1-170	Specification Label	1
E	1550-90-1	Caution Label	1
F	988-2-524	Cord Hanger	2
H	25-69	Pop Rivet	4
N	23-25	Self-Tapping Screw	1
P	13-17	External Tooth Lock Washer	1
R	34-22	Clamp	1

Base Assembly with Optional Coil Power Cord

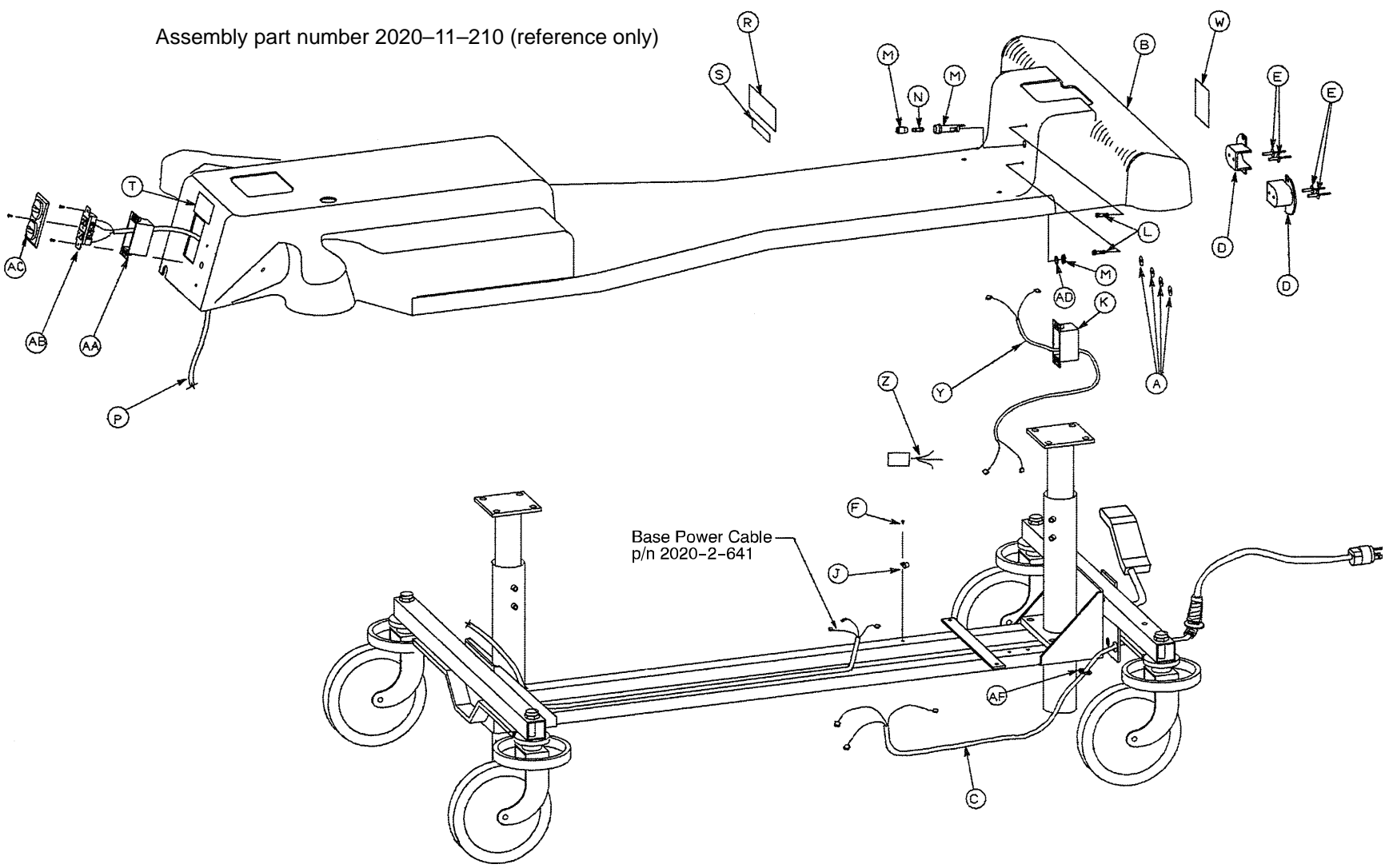
Assembly part number 2020-12-210
(reference only)



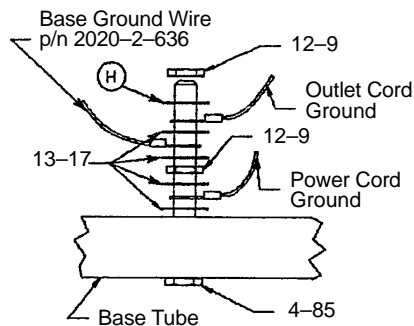
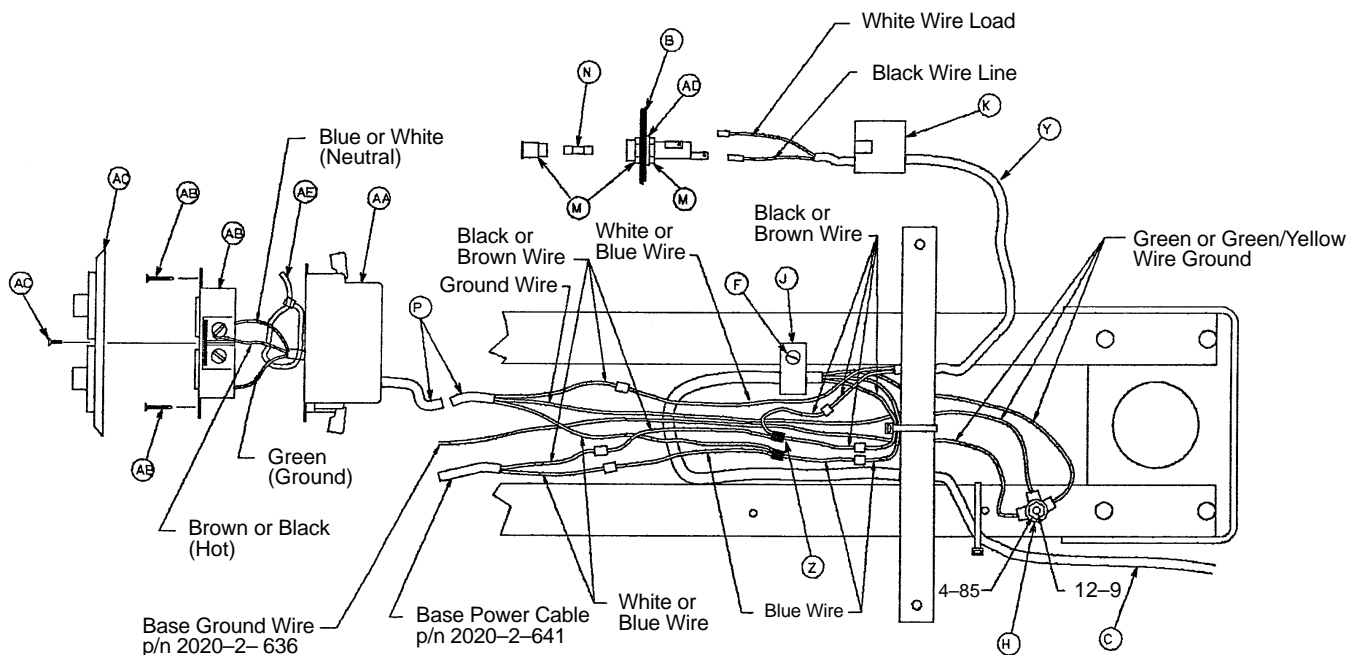
Item	Part No.	Part Name	Qty.
A	2020-12-216	Cord Assembly	1
B	2020-1-213	Hood Assembly	1
C	2020-12-212	Cord Holder	1
D	2020-1-170	Specification Label	1
E	11-156	Washer	2
F	23-25	Screw	1
H	25-69	Pop Rivet	2
J	34-22	Clamp	1
K	1550-90-1	Caution Label	1

Base Assembly with 110V Outlet Option

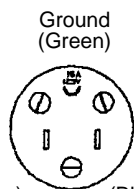
Assembly part number 2020-11-210 (reference only)



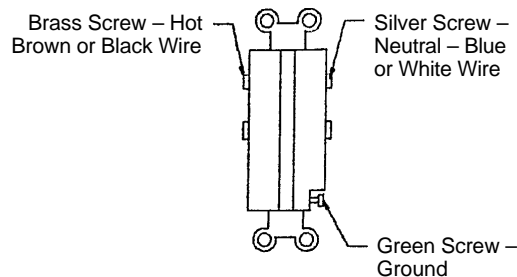
Base Assembly with 110V Outlet Option



BASE FRAME TUBE GROUNDING SCHEME



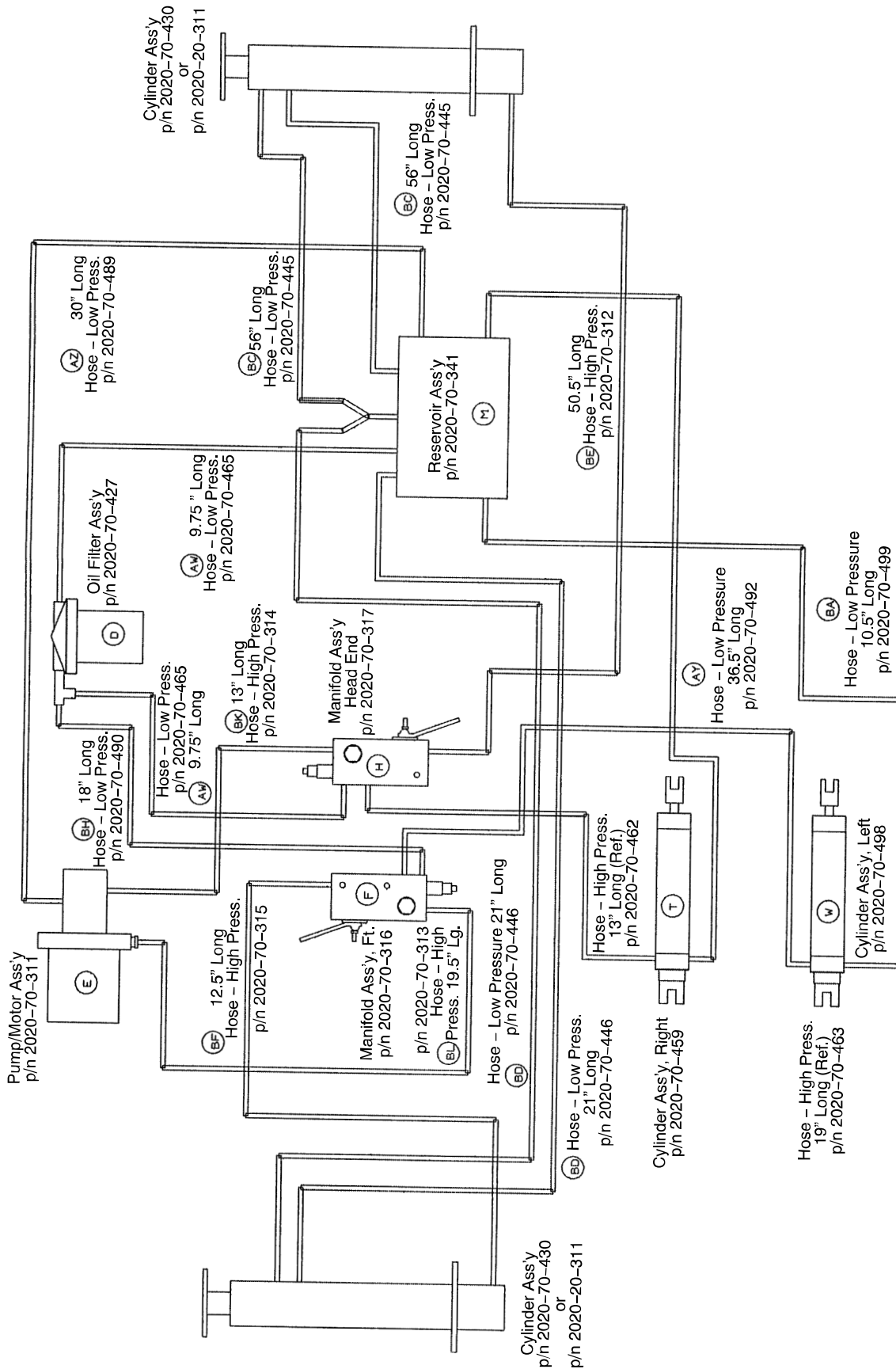
PLUG WIRING DETAIL

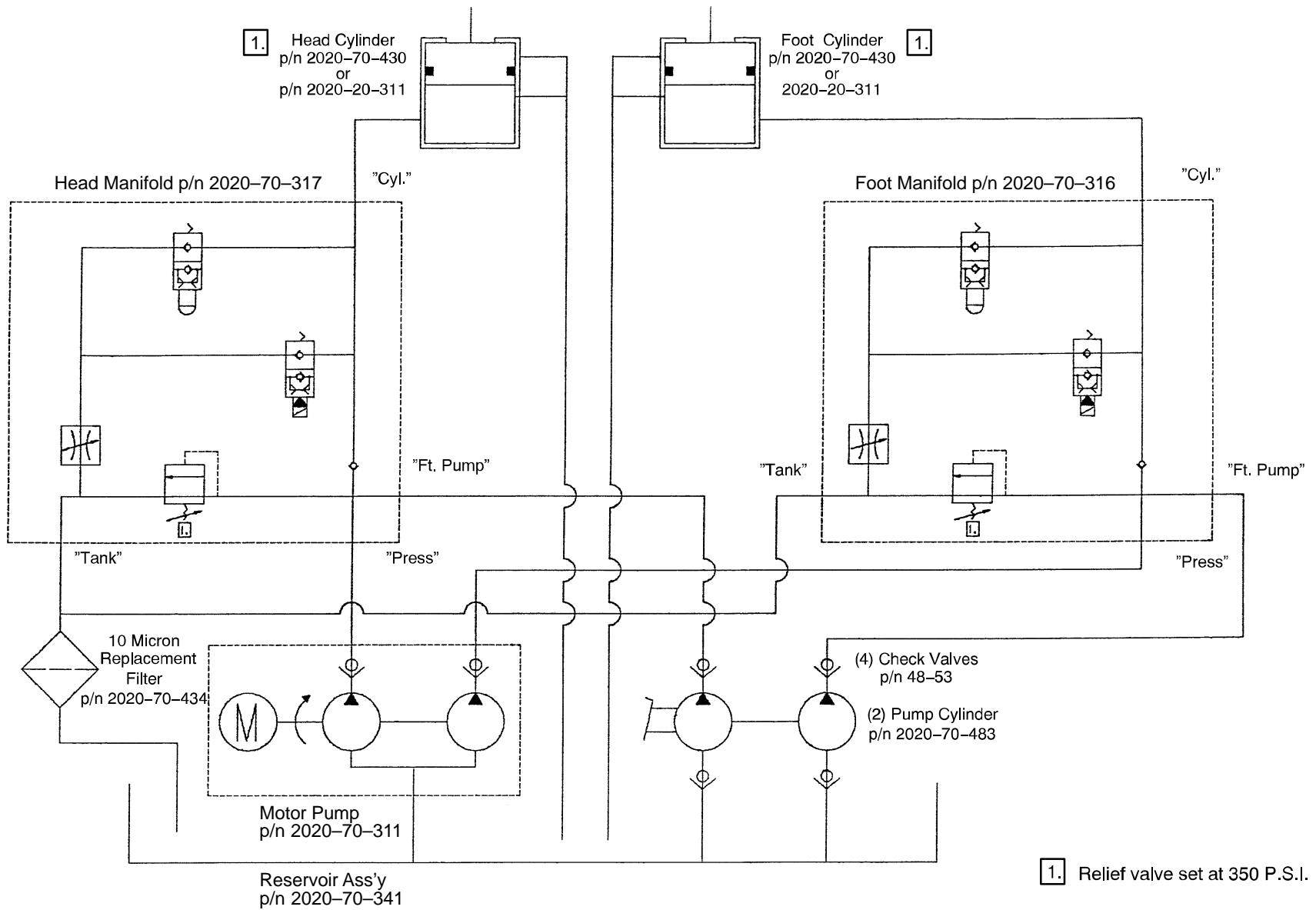


110V OUTLET DETAIL

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	11-156	Washer	4	R	2020-11-260	Specification Label	1
B	2020-11-211	Hood Assembly, Modified	1	S	2020-11-212	Fuse Warning Label	1
C	2020-11-215	Power Cord Assembly	1	T	2020-11-230	Caution Rating Label	1
D	988-2-524	Cord Hanger	2	W	1550-90-1	Caution Label	1
E	25-69	Pop Rivet	4	Y	2020-11-217	Fuse Cord Assembly	1
F	23-25	Self Tapping Screw	1	Z	2020-11-218	Splice Assembly	1
H	13-17	Ext. Tooth Lock Washer	1	AA	2020-11-219	110 V. Outlet Box	1
J	34-22	Clamp	1	AB	2020-11-221	Receptacle	1
K	2020-1-345	Cover	1	AC	2020-11-222	Cover	1
L	4-126	Socket Hd. Cap Screw	2	AD	13-16	Int. Tooth Lock Washer	1
M	2020-2-664	Fuse Holder Assembly	1	AE	38-111	Cable Tie	1
N	2020-11-220	Fuse	1	AF	2020-11-224	Nut	1
P	2020-11-216	110 V. Outlet Cord	1				

Base Hydraulics Assembly





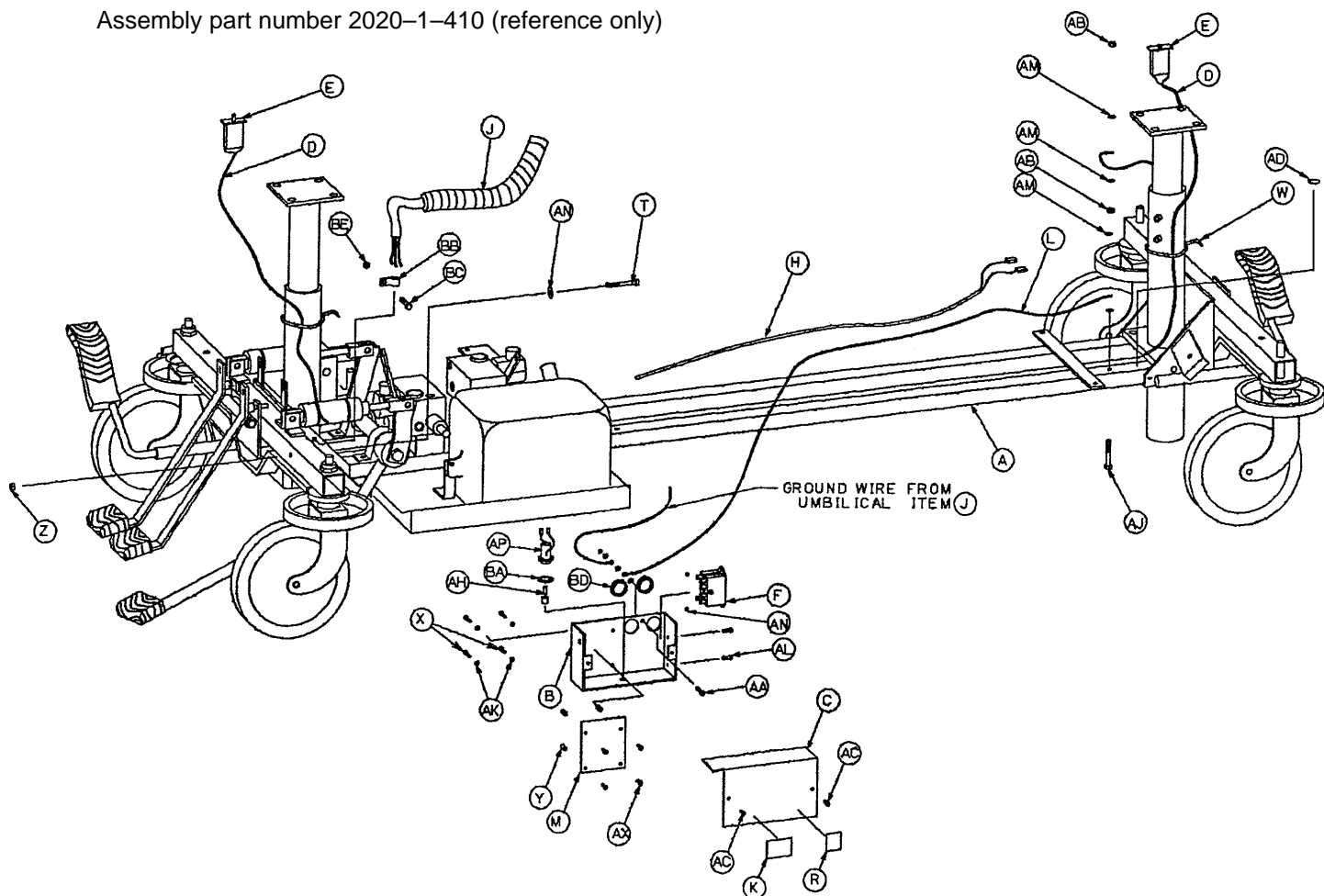
Base Hydraulics Assembly

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 29)	Caster Base Assembly	1	AY	2020-70-492	Hydraulic Hose	1
C	*	Cylinder Assembly	2	AZ	2020-70-489	Hydraulic Hose	1
D	2020-70-495	Oil Filter Assembly	1	BA	2020-70-499	Hydraulic Hose	1
E	2020-70-311	Pump Motor Assembly	1	BC	2020-70-445	Hydraulic Hose	2
F	2020-70-316	Manifold Ass'y, Ft. End	1	BD	2020-70-446	Hydraulic Hose	2
H	2020-70-317	Manifold Ass'y, Hd. End	1	BE	2020-70-312	Hydraulic Hose	1
J	2020-1-413	Capacitor	1	BF	2020-70-315	Hydraulic Hose	1
K	38-151	Cable Tie	2	BH	2020-70-490	Hydraulic Hose	1
L	2020-70-321	Cylinder Cover	1	BK	2020-70-314	Hydraulic Hose	1
M	2020-70-341	Reservoir Assembly	1	BL	2020-70-313	Hydraulic Hose	1
N	2020-1-297	Linkage Bar, Short	1	BN	958-70-461	Hydraulic Hose	1
P	2020-1-298	Linkage Bar, Long	1	BP	48-84	Y-Connector	1
R	2020-70-479	Hydraulics Pan Ass'y	1	BR	38-182	Hose Clamp	1
T	2020-70-459	Cylinder Ass'y, Rt.	1	BS	38-192	Hose Clamp	14
W	2020-70-498	Cylinder Ass'y, Lt.	1	BT	26-132	Clevis Pin	2
Y	2020-1-321	Isolation Mount	4	BW	27-9	Hair Pin Cotter	4
Z	2020-1-322	Washer	2	BY	11-14	Washer	8
AA	2020-1-323	Spacer	2	BZ	2020-1-265	Modified Nut	6
AB	2020-1-346	Fitting Guard Ass'y	2	CA	15-5	Nut	2
AC	11-134	Washer	2	CB	52-79	Snap Bushing	2
AD	11-3	Washer	2	CC	16-28	Fiberlock Nut	8
AE	38-151	Cable Tie	1	CD	11-2	Washer	6
AF	4-118	Hex Hd. Cap Screw	1	CE	4-9	Soc. Hd. Cap Screw	2
AH	38-223	Extension Spring	1	CH	16-40	Fiberlock Nut	8
AL	38-210	Compression Spring	2	CL	52-86	Nyliner	2
AM	3-71	Hex Hd. Cap Screw	8	CM	3-78	Hex Hd. Cap Screw	2
AN	3-56	Hex Hd. Cap Screw	4	CN	13-10	Ext. Tooth Lock Wash.	2
AP	11-1	Washer	2	CR	16-33	Kep Nut	2
AR	3-45	Hex Hd. Cap Screw	2	CS	3-62	Hex Hd. Cap Screw	12
AS	15-4	Hex Nut	4	CT	15-22	Jam Nut	2
AT	26-131	Clevis Pin	2	CZ	11-33	Shim Washer	6
AW	2020-70-465	Hydraulic Hose	2				

* For a standard height base, use cylinder part number 2020-70-480.
For a low height base, use cylinder part number 2020-20-311.

Base Assembly, Electrical

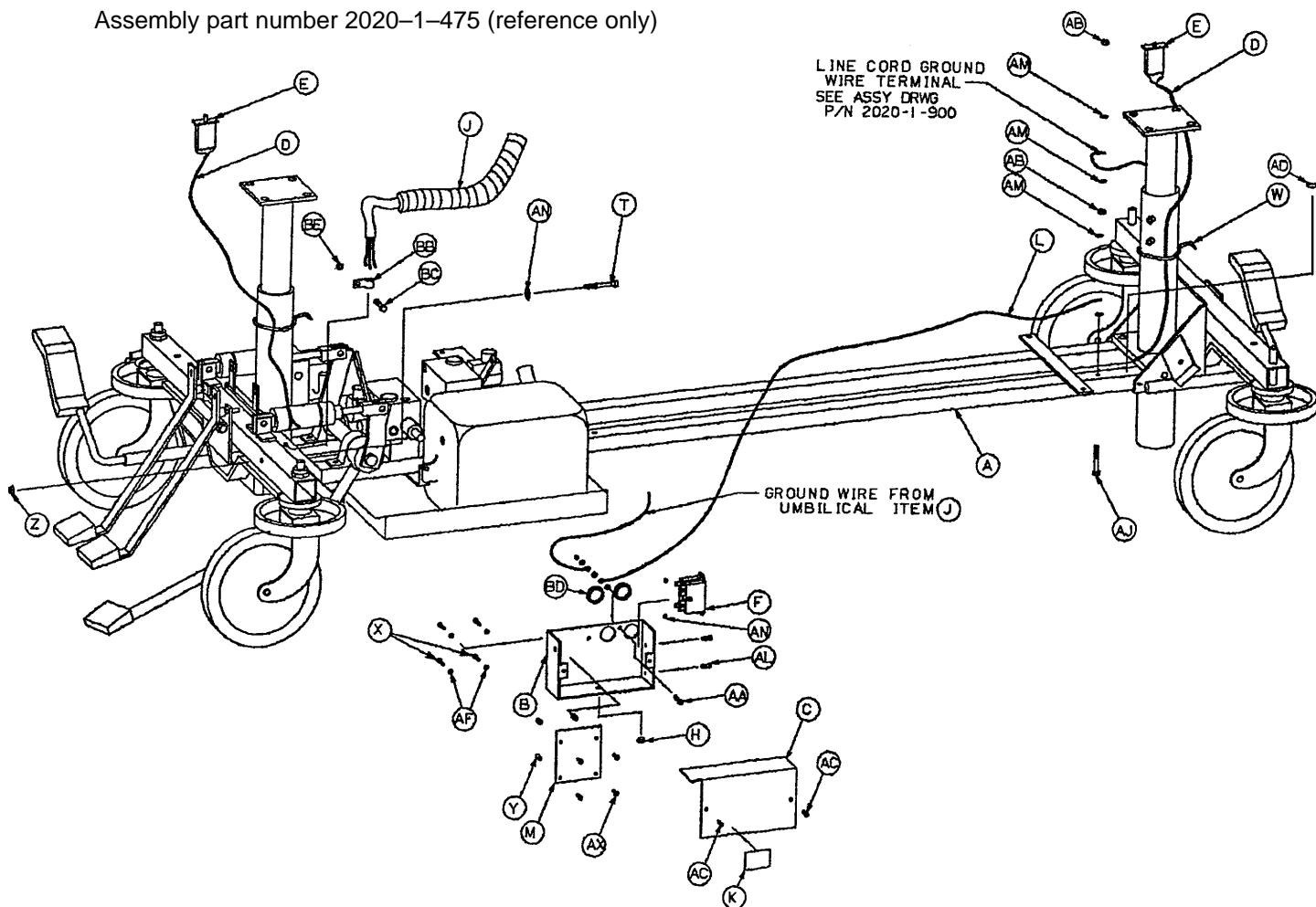
Assembly part number 2020-1-410 (reference only)



Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 41 & 40)	Hydraulics Base Ass'y	1	AA	4-8	Soc. Hd. Cap Screw	1
B	2020-1-326	Base Bd. Enclosure	1	AB	15-4	Jam Nut	3
C	2020-1-327	Enclosure Cover	1	AC	23-25	Self-Tapping Screw	3
D	2020-2-638	Jack Switch Cable	1	AD	36-46	Ground Label	1
E	2020-1-437	Bellows Cover Switch	2	AE	2022-2-645	Pump to Relay Cable	1
F	2020-1-425	Relay	1	AH	2020-2-666	Fuse	1
H	2020-2-641	Base Power Cable	1	AJ	4-85	Soc. Hd. Cap Screw	1
J	2020-1-424	Umbilical Assembly	1	AK	11-103	Washer	4
K	988-2-708	Shock Hazard Label	1	AL	4-5	Soc. Hd. Cap Screw	2
L	2020-2-636	Base Ground Wire	1	AM	13-18	Ext. Tooth Lock Washer	7
M	2020-2-611	Base Control Bd.	1	AN	16-27	Nut	2
N	2020-2-644	Pump Mtr. Rel. Cable	1	AP	2020-2-664	Fuse Holder	1
R	2020-1-148	Fuse Label	1	AR	2020-2-665	Main Fuse Wire	2
T	3-67	Hex Hd. Cap Screw	1	AX	52-89	Nylon Screw	4
W	38-151	Cable Tie	11	BA	13-37	Ext. Tooth Washer	1
X	4-118	Soc. Hd. Cap Screw	4	BB	52-104	Cable Clamp	1
Y	52-91	Spacer	4	BC	4-90	Soc. Hd. Cap Screw	1
Z	16-16	Fiberlock Nut	1	BD	30-20	Snap Bushing	2
				BE	16-16	Fiberlock Nut	1

International Base Assembly, Electrical

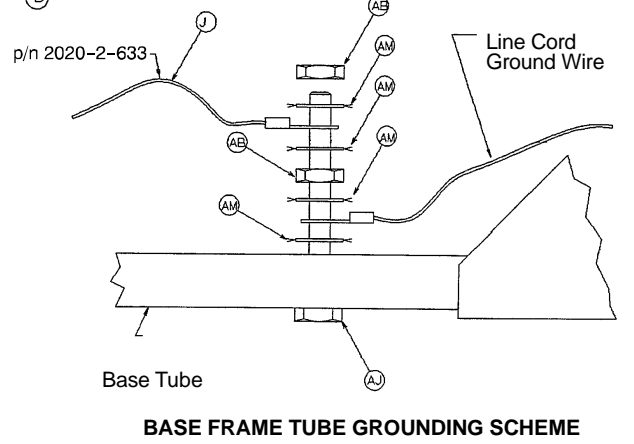
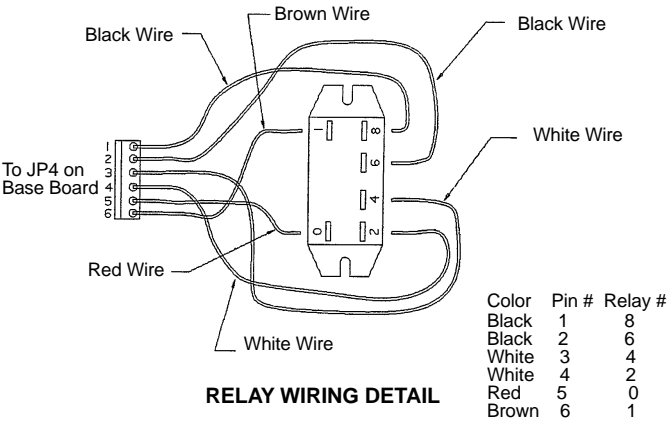
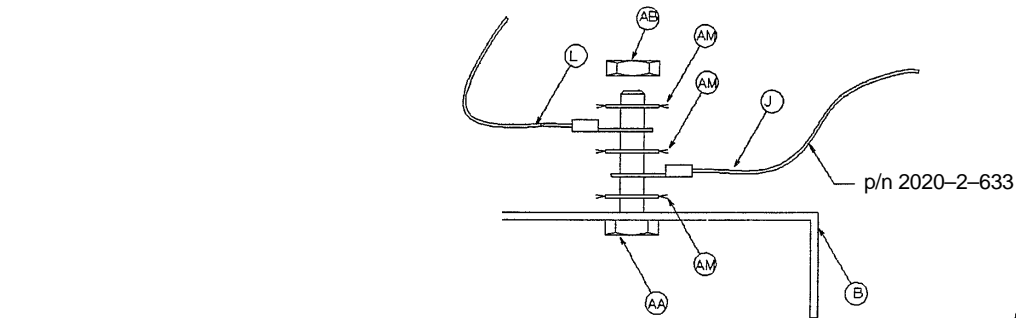
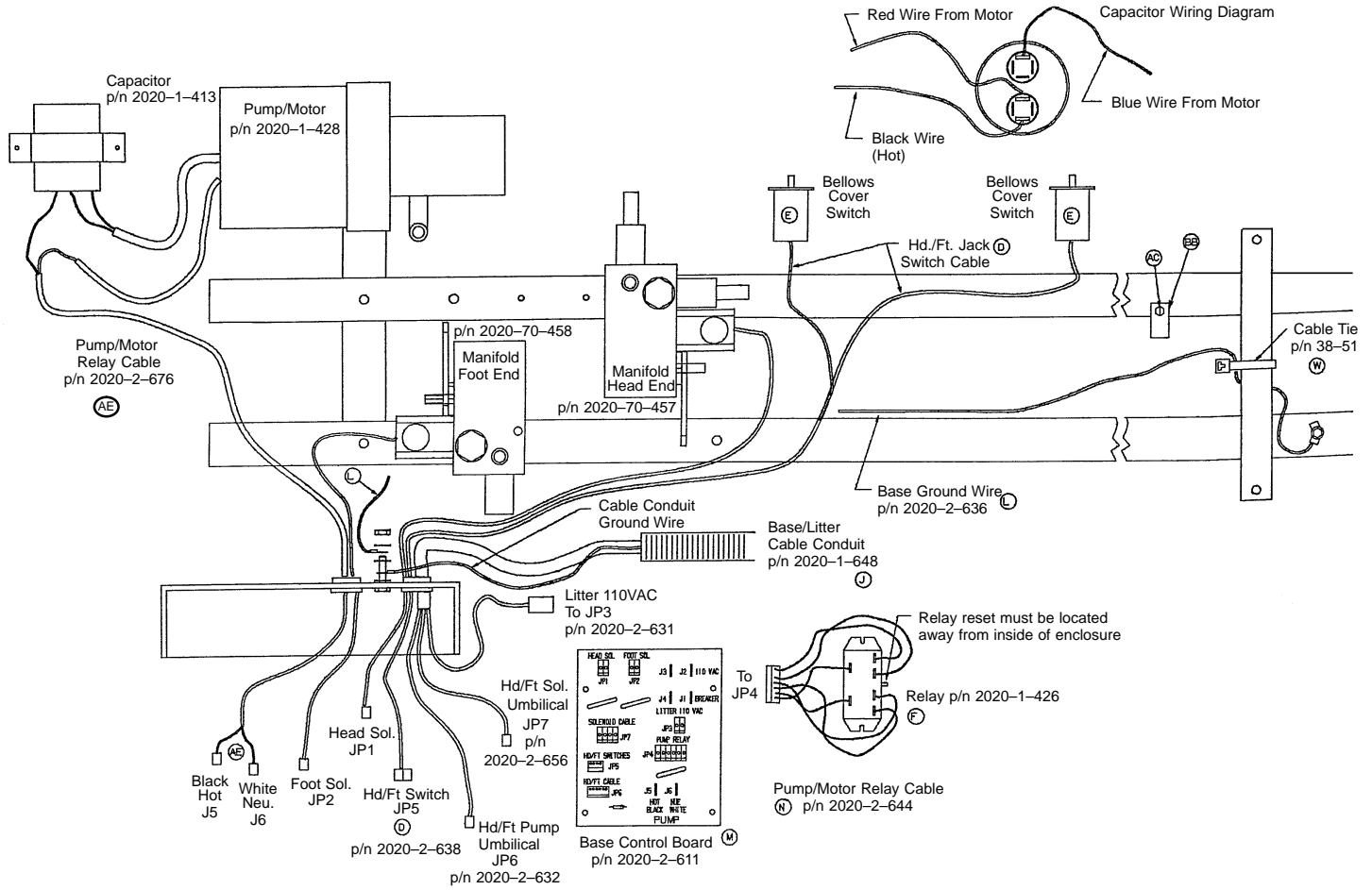
Assembly part number 2020-1-475 (reference only)



NOTE: 2020-1-475 replaces 2020-1-410 Base Assembly, Electrical for international beds only

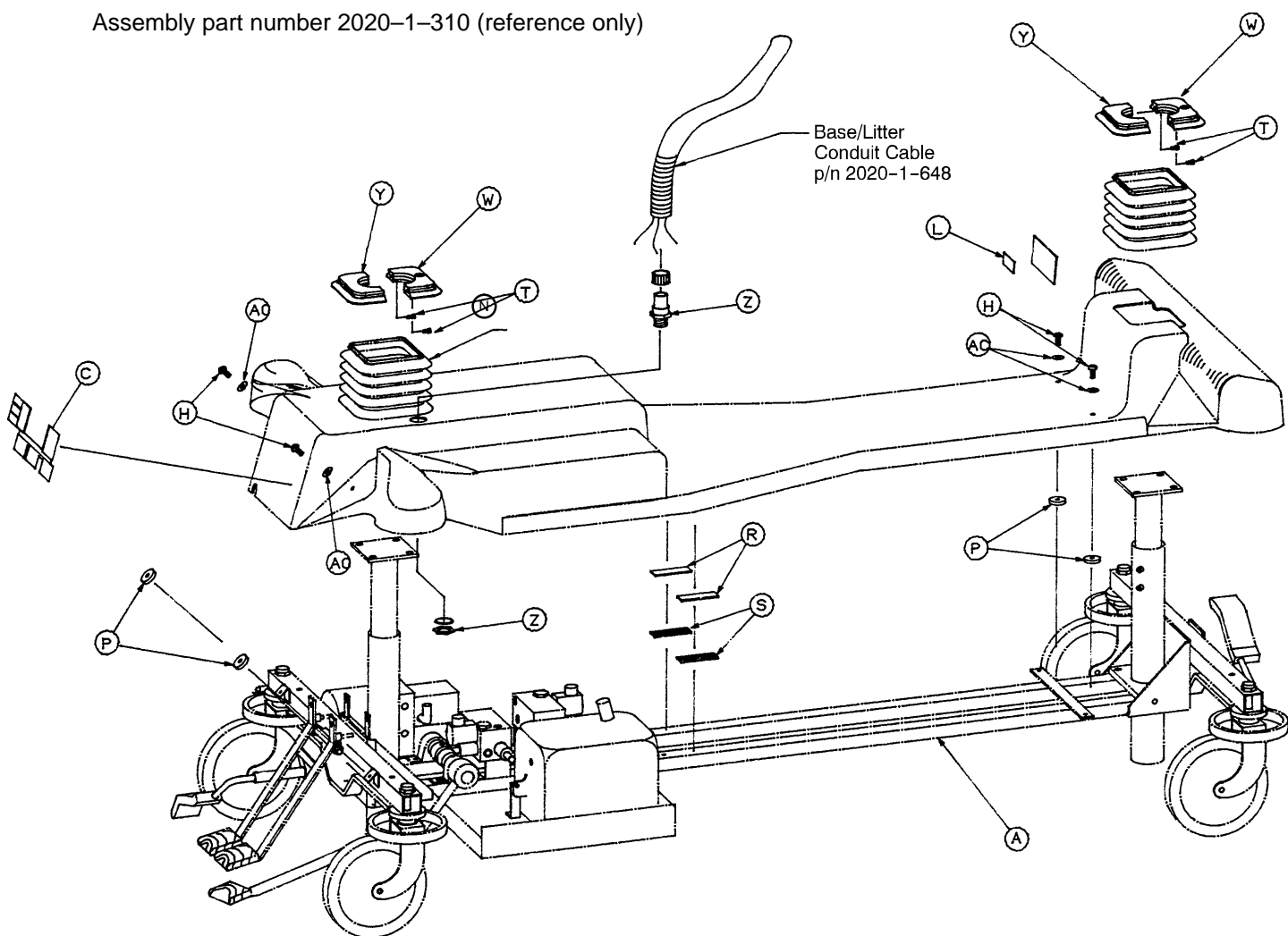
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 41 & 40)	Hydraulics Base Ass'y	1	Z	16-16	Fiberlock Nut	1
B	2020-1-326	Base Bd. Enclosure	1	AA	4-8	Soc. Hd. Cap Screw	1
C	2020-1-327	Enclosure Cover	1	AB	15-4	Jam Nut	3
D	2020-2-638	Jack Switch Cable	1	AC	23-25	Self-Tapping Screw	3
E	2020-1-437	Bellows Cover Switch	2	AD	36-46	Ground Label	1
F	2020-1-425	Relay	1	AE	2020-2-676	Pump Cable	1
H	37-60	Hole Plug	1	AF	11-103	Washer	4
J	2020-1-424	Umbilical Assembly	1	AJ	4-85	Soc. Hd. Cap Screw	1
K	988-2-708	Shock Hazard Label	1	AL	4-5	Soc. Hd. Cap Screw	2
L	2020-2-636	Base Ground Wire	1	AM	13-18	Ext. Tooth Washer	7
M	2020-2-611	Base Control Bd.	1	AN	11-53	Washer	1
N	2020-2-644	Pump Mtr. Rel. Cable	1	AX	52-89	Nylon Screw	4
S	2020-1-156	Label Stiffener	1	BB	52-104	Cable Clamp	1
T	3-67	Hex Hd. Cap Screw	1	BC	4-90	Soc. Hd. Cap Screw	1
W	38-151	Cable Tie	11	BD	30-20	Snap Bushing	2
X	4-118	Soc. Hd. Cap Screw	4	BE	16-16	Fiberlock Nut	1
Y	52-91	Spacer	4				

International Base Assembly, Electrical



Hood and Base Assembly

Assembly part number 2020-1-310 (reference only)

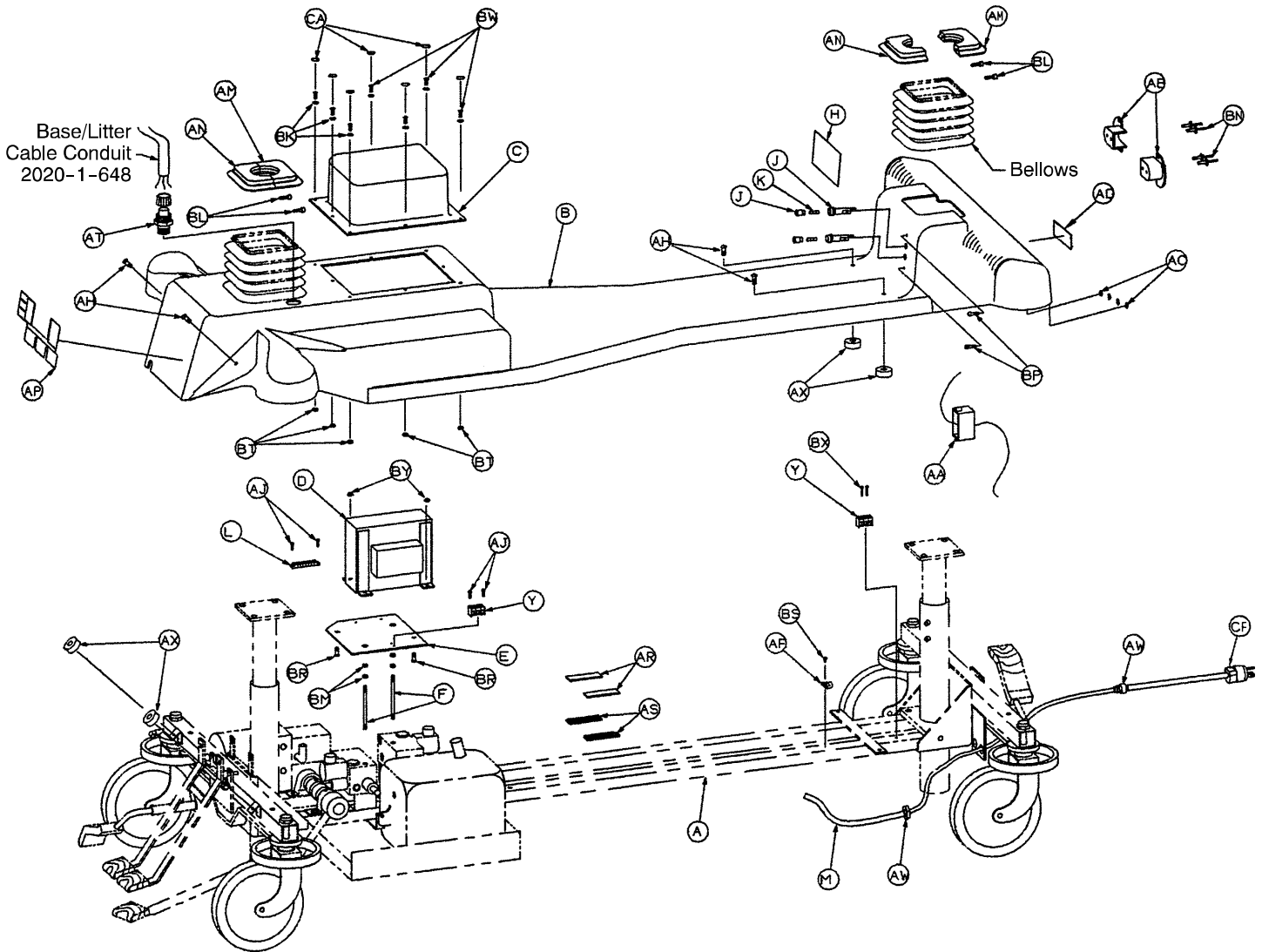


Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 42 & 43)	Base Ass'y, Electrical	1	R	29-7	Dual Lock	2
C	2010-1-101	Label, Foot End	1	S	29-9	Dual Lock	2
D	2020-1-135	Label, Brake/Steer, Head	1	T	4-8	Soc. Hd. Cap Screw	4
F	2020-1-205	Label, Logo, Left	1	W	2020-1-398	Bellows Cap, Machined	2
H	7-17	Truss Hd. Mach. Screw	4	Y	2020-1-352	Bellows Cap, Modified	2
J	946-1-60	Stryker Logo Label	2	Z	2020-1-432	Connector	1
K	1010-1-50	Ren. Series Logo Label	2	AA	2020-1-204	Label, Logo, Right	1
L	2020-1-160	Date-of-Man. Label	1	AC	11-221	Washer	4
N	*	Bellows	2	AD	2011-1-104	Anesthetic Warning Label	1
P	946-1-115	Grommet	4	AH	988-2-708	Caution Label	1

* For a standard height base, use bellows part number 2020-1-275.
For a low height base, use bellows part number 958-1-214.

International Hood and Base Assembly

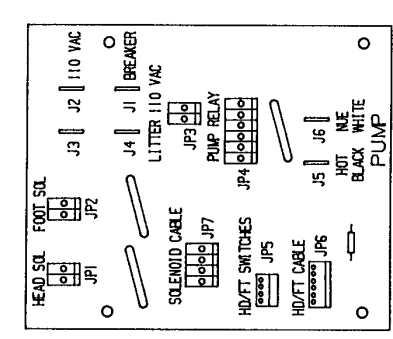
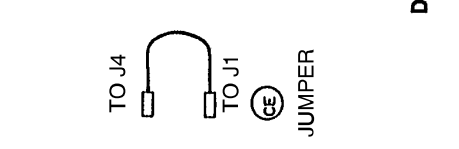
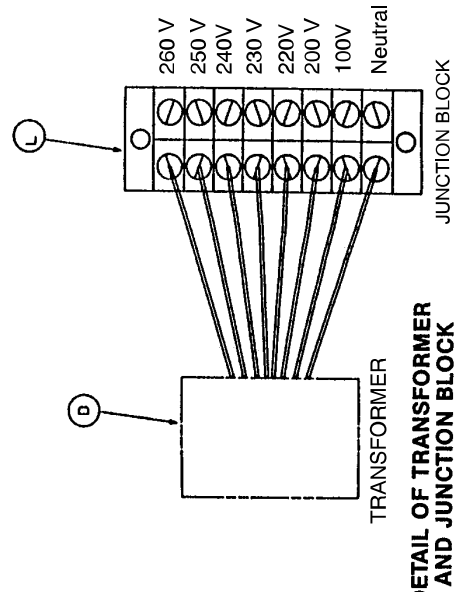
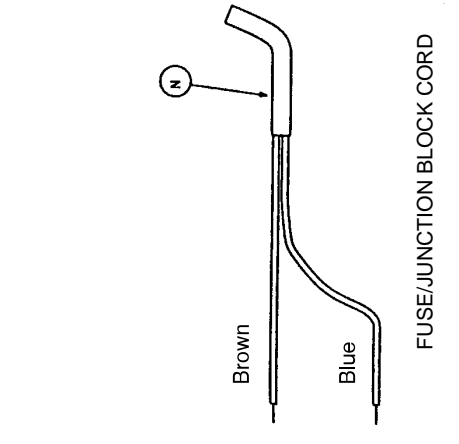
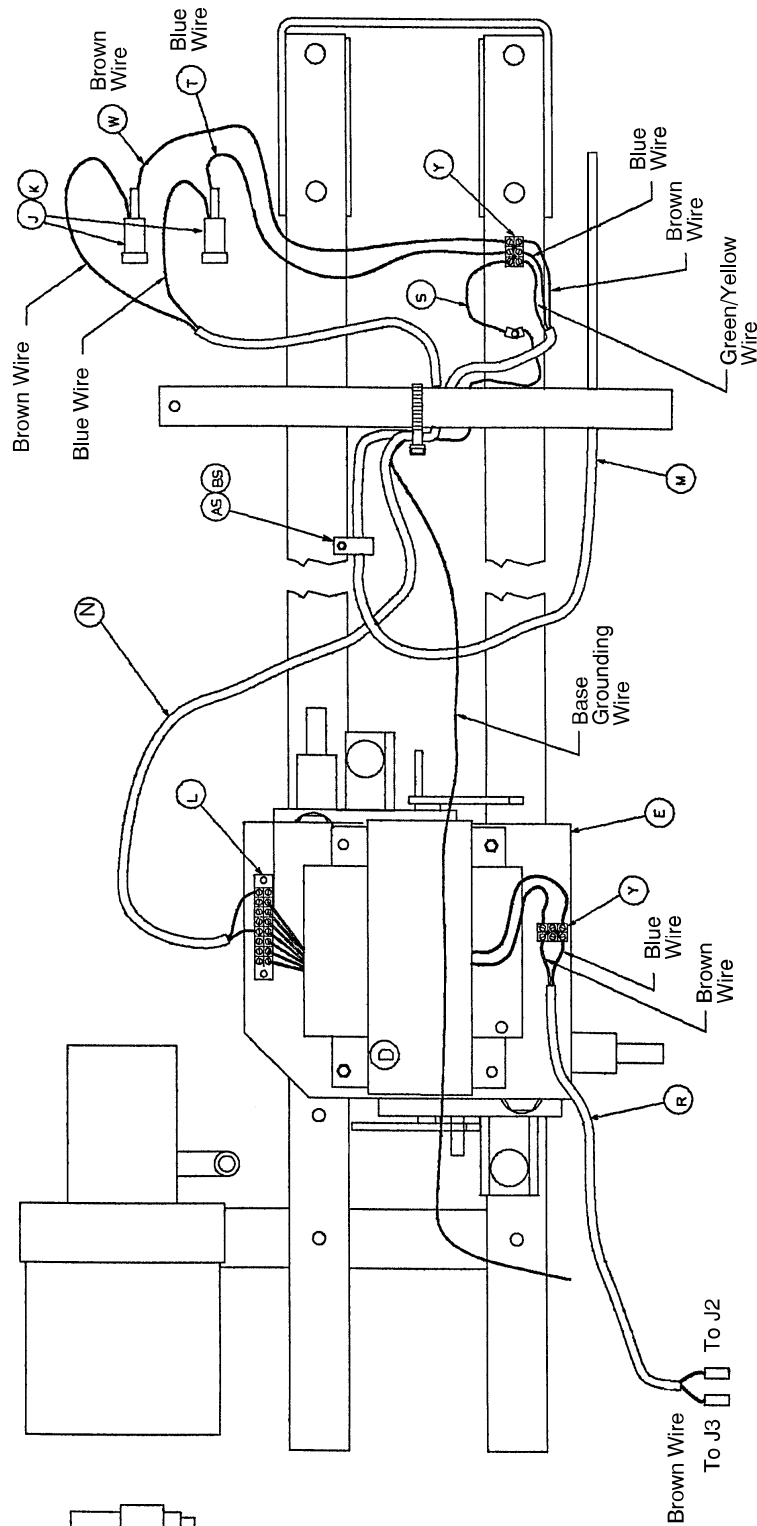
Assembly part number 2020-1-900 (reference only)



ASSY. PART NO.	VOLTAGE (V)	CURRENT RATING (A)	FREQUENCY (HZ)	FUSE PART NO. (K)	PLUG TYPE	STRYKER PART NO. (CF)
2020-260-510	260	4.0	50	2020-200-512	I (Australian)	1990-500-232
2020-260-550		2.5	60	2020-260-512		
2020-250-510	250	5.0	50	2020-230-511	I (Australian)	1990-500-232
2020-250-550		3.15	60	2020-220-516		
2020-240-510	240	5.0	50	2020-230-511	I (Australian)	1990-500-232
2020-240-550		3.15	60	2020-220-516		
2020-230-510	230	5.0	50	2020-230-511	G (British Std.)	2020-220-532
2020-230-550		3.15	60	2020-220-516		
2020-220-510	220	6.3	50	2020-200-511	F (Cont. European)	1990-500-235
2020-220-550		3.15	60	2020-220-516		
2020-200-510	200	6.3	50	2020-200-511	G (British Std.)	2020-220-532
2020-200-550		4.0	60	2020-200-512		
2020-100-510	100	10.0	50	2020-100-511	B (North American)	460-2-69
2020-100-550		7.0	60	2020-100-512		

NOTE: 2020-1-900 replaces 2020-1-310 Hood & Base Assembly for international beds only.

International Hood and Base Assembly



Base Control Board

International Hood and Base Assembly

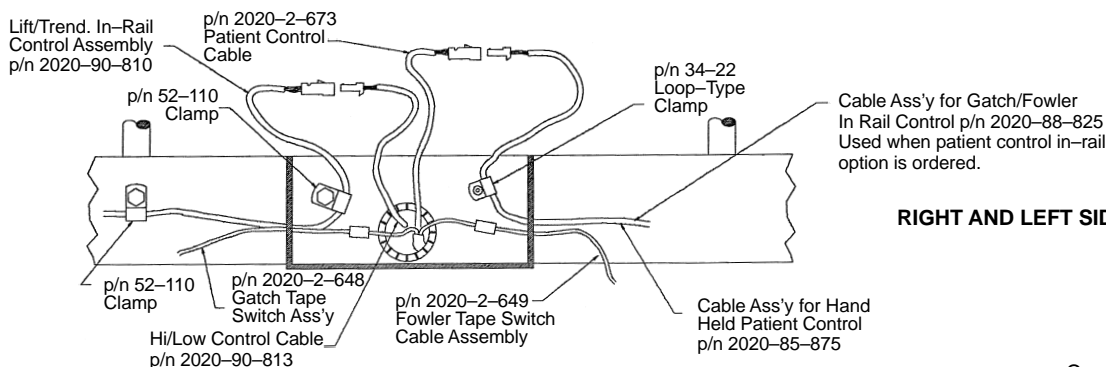
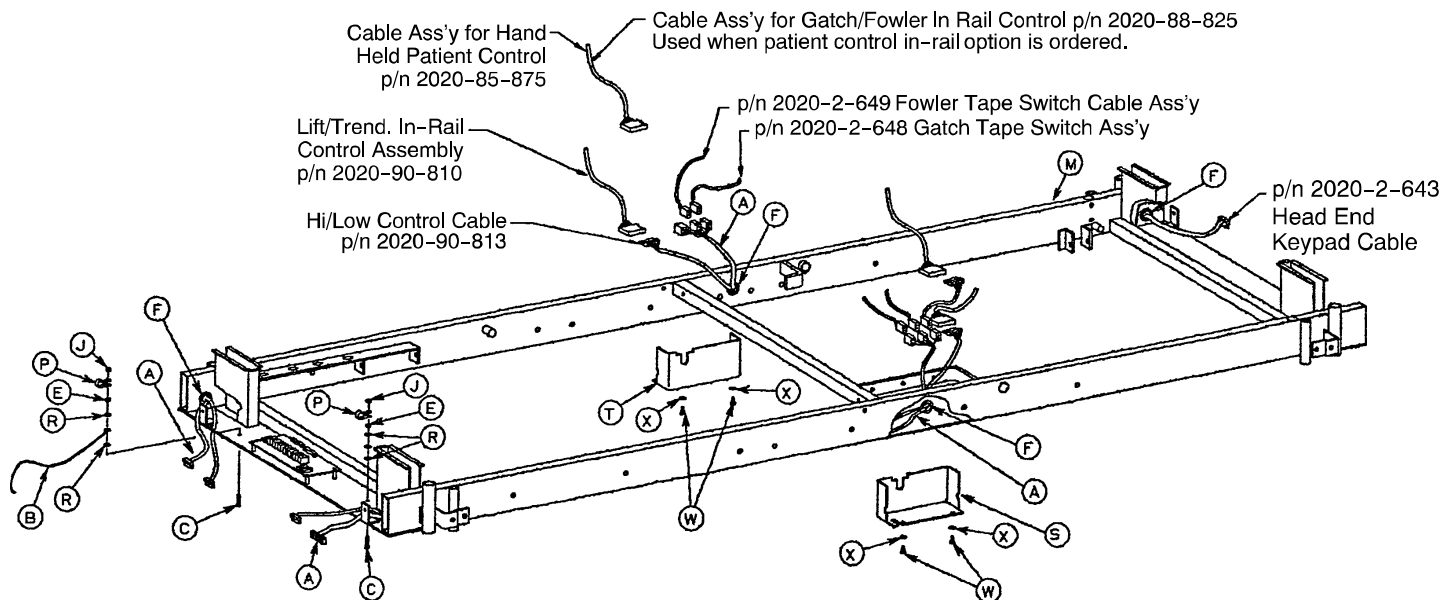
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 44 & 45)	Base Ass'y, Electrical	1	AR	29-7	Dual Lock	2
B	2020-220-517	Hood, Modified	1	AS	29-9	Dual Lock	2
C	2020-220-511	Transformer Encl.	1	AT	2020-1-423	Connector	1
D	2020-220-512	Transformer	1	AW	52-721	Strain Relief	1
E	2020-220-513	Mounting Plate	1	AX	946-1-115	Grommet	4
F	2020-220-515	Mounting Stud	2	AY	946-1-60	Stryker Logo Label	2
H	2020-1-175	Label	1	BC	2011-1-104	Anesth. Warn. Label	1
J	2020-220-518	Fuse Holder Ass'y	2	BD	988-2-708	Label	1
K	(see chart, p. 47)	Fuse	2	BF	2020-1-135	Label, Brk./Steer, Hd.	1
L	2020-220-522	Junction Block	1	BH	2020-1-116	Specification Label	1
M	2020-220-523	Power Cord, Int.	1	BJ	2020-1-205	Left Logo Label	1
N	2020-220-533	Fuse/Junct. Blk. Cord	1	BK	37-56	Washer	8
R	2020-220-526	Junction Bd. Cord	1	BL	4-8	Soc. Hd. Cap Screw	4
S	2020-220-527	Ground Wire	1	BM	15-5	Jam Nut	4
T	2020-220-528	Neutral Wire	1	BN	25-69	Pop Rivet	4
W	2020-220-529	Hot Wire	1	BP	4-126	Soc. Hd. Cap Screw	2
X	2020-220-531	Jumper	1	BR	3-41	Hex Hd. Cap Screw	4
Y	59-11	Terminal Block	1	BS	23-25	Self-Tapping Screw	1
AA	2020-1-345	Cover	1	BT	16-3	Fiberlock Nut	8
AB	988-2-524	Cord Hanger	2	BW	2-20	Round Hd. Screw	8
AC	11-156	Washer	4	BX	23-62	Self-Tapping Screw	2
AD	1550-90-1	Label, Caution	1	BY	16-16	Fiberlock Nut	6
AF	34-22	Strain Relief	1	CA	37-55	Cap	8
AH	7-17	Truss Mach. Screw	5	CC	2020-1-204	Right Logo Label	1
AJ	2-66	Rd. Hd. Mach. Screw	4	CD	2020-220-521	Brace Assembly	1
AL	*	Bellows	2	CE	2020-220-531	Jumper	1
AM	2020-1-398	Bellows Cap, Slotted	2	CF	(see chart p. 47)	Plug	1
AN	2020-1-352	Bellows Cap, Mod.	2	CH	1010-1-50	Ren. Series Label	2
AP	2010-1-101	Label	1				

* For a standard height base, use bellows part number 2020-1-275.

For a low height base, use bellows part number 958-1-214.

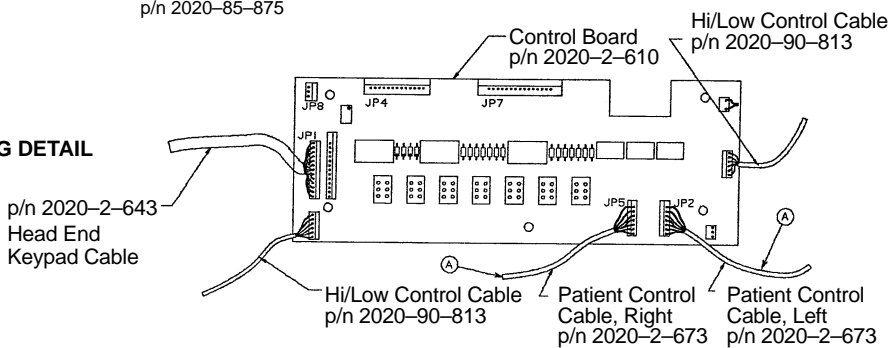
Litter Assembly, Electrical

Assembly part number 2020-1-511
(reference only)



RIGHT AND LEFT SIDETUBE ELECTRICAL ASSEMBLY

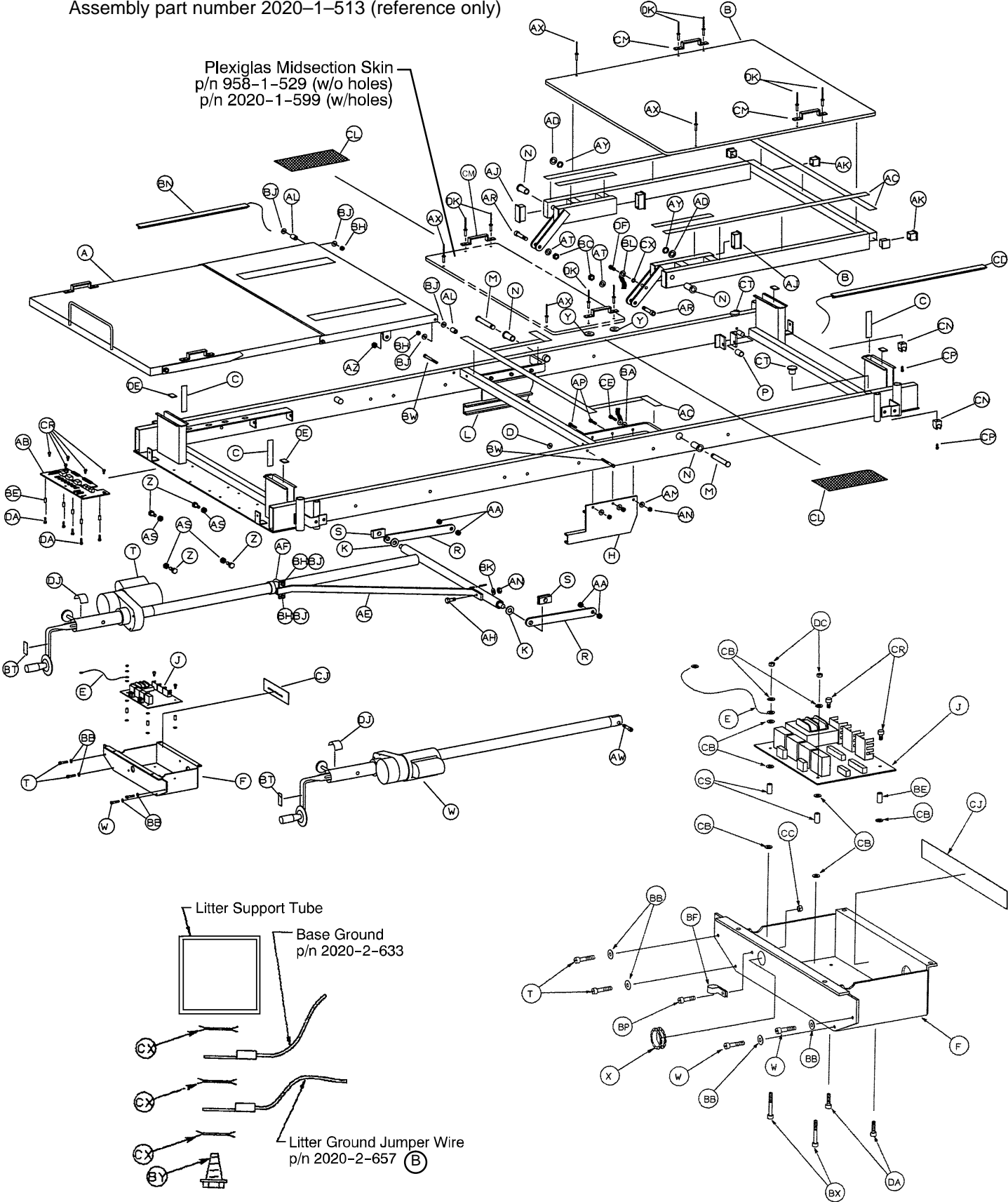
LITTER CONTROL BOARD WIRING DETAIL



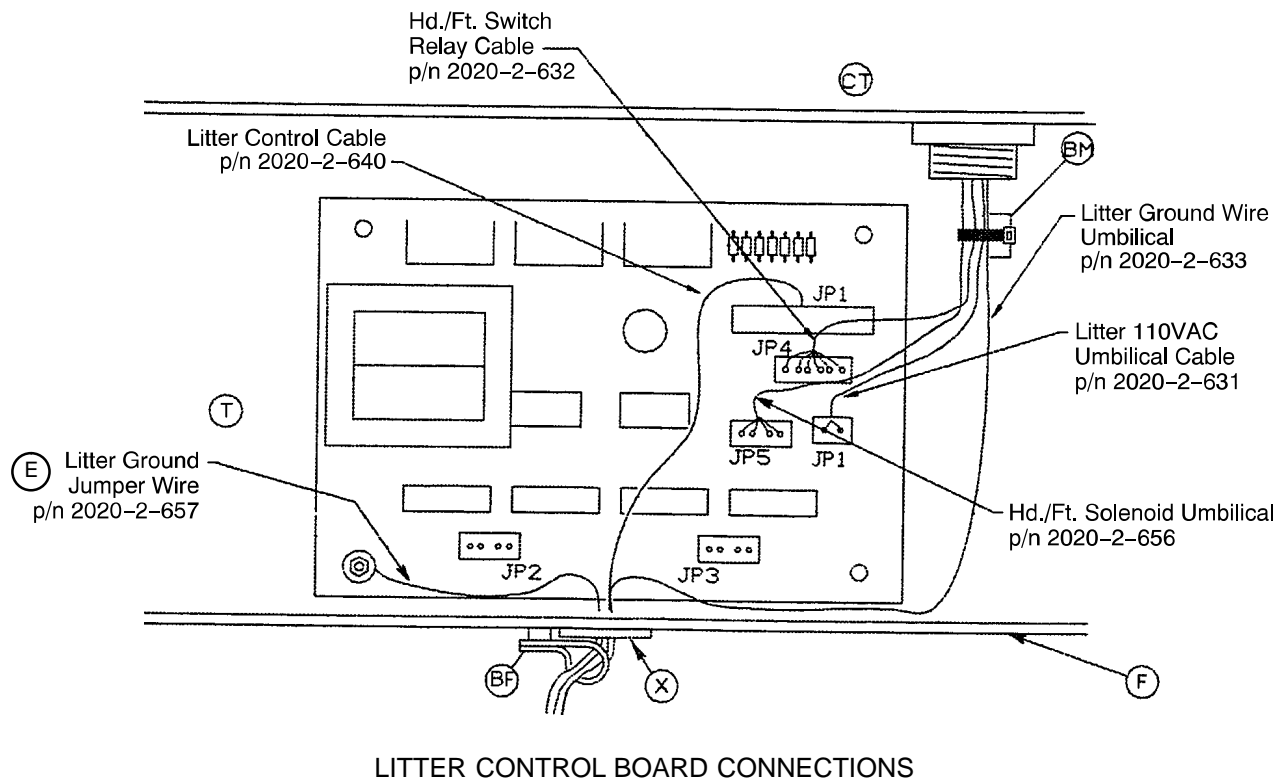
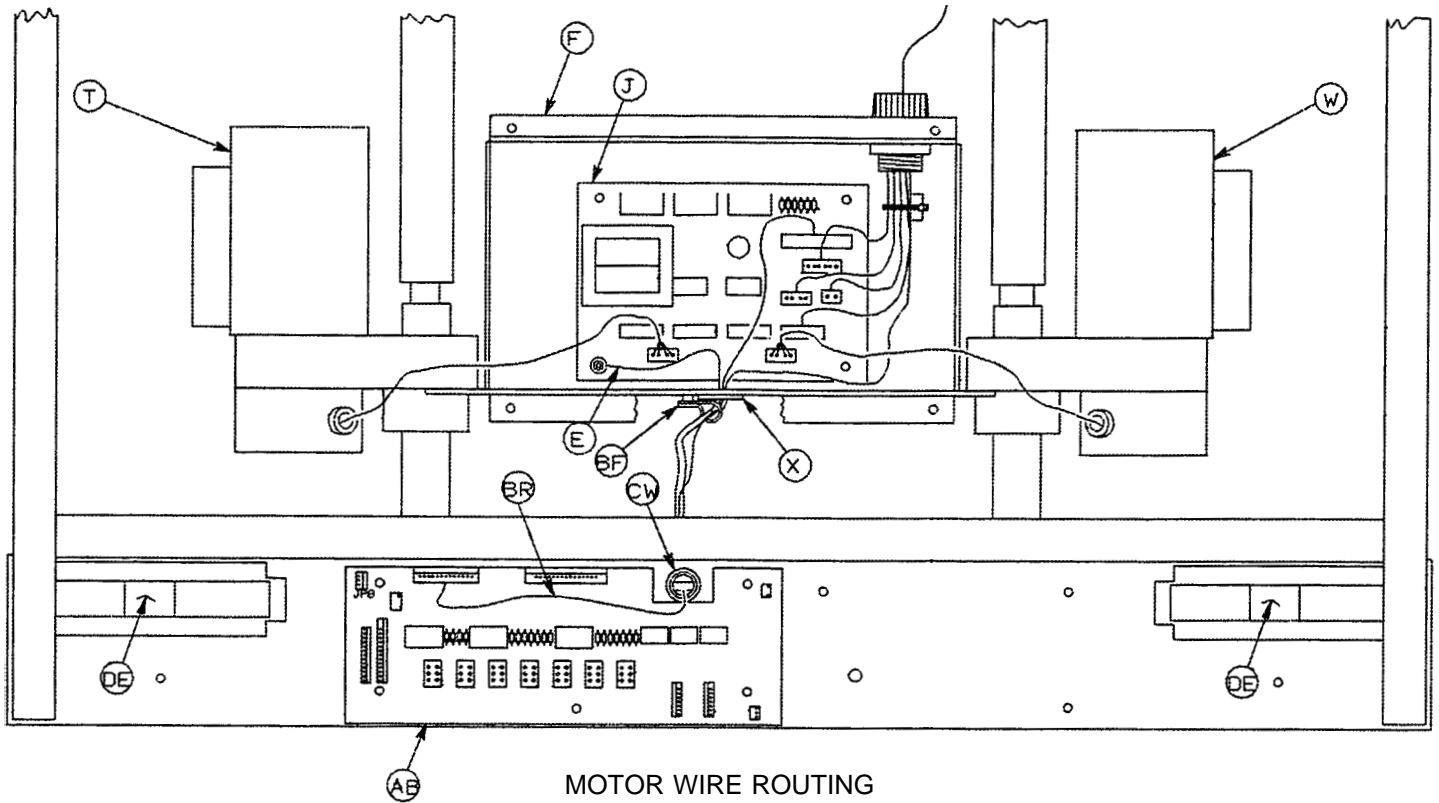
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	2020-2-673	Patient Control Cable	2	P	52-94	Clamp	4
B	2020-2-655	Foil Shield Wire	1	R	13-18	Ext. Tooth Lock Washer	4
C	4-8	Soc. Hd. Cap Screw	2	S	2020-1-428	Pocket Cover, Right	1
E	15-4	Hex Nut	2	T	2020-1-429	Pocket Cover, Left	1
F	30-17	Nylon Grommet Edging	28"	W	23-57	Self-Tapping Screw	4
J	16-3	Fiberlock Nut	2	X	13-17	Ext. Tooth Lock Washer	4
M	2020-1-518	Litter Frame Assembly	1				

Basic Litter Assembly

Assembly part number 2020-1-513 (reference only)



Basic Litter Assembly



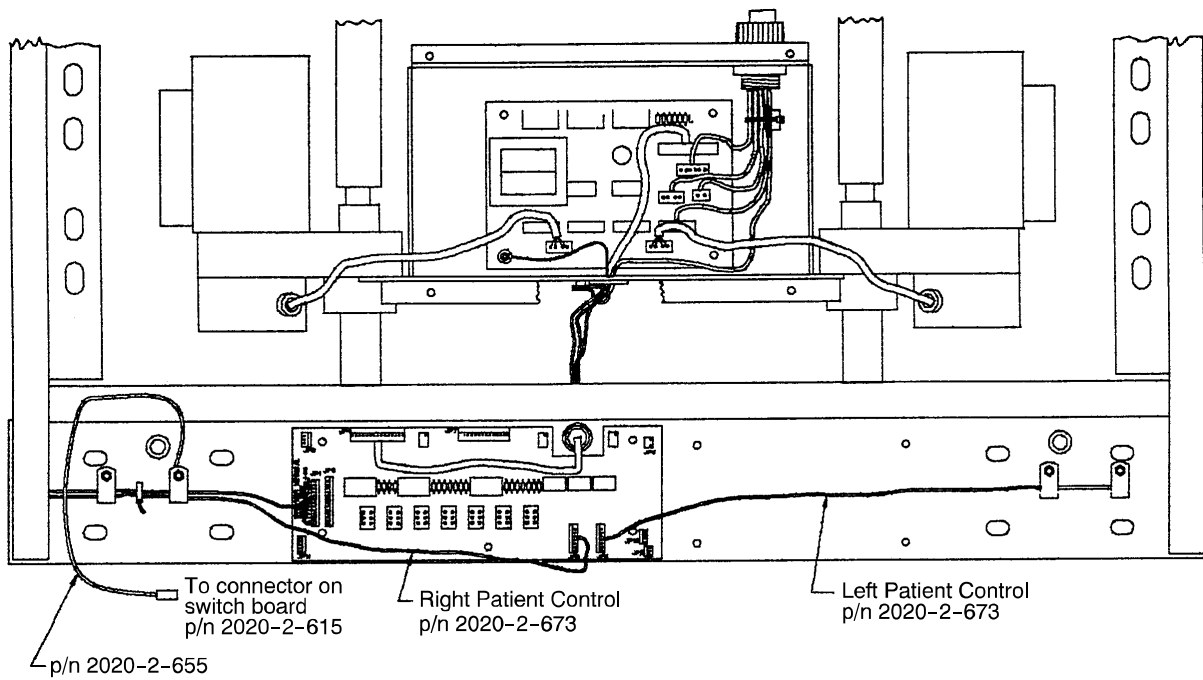
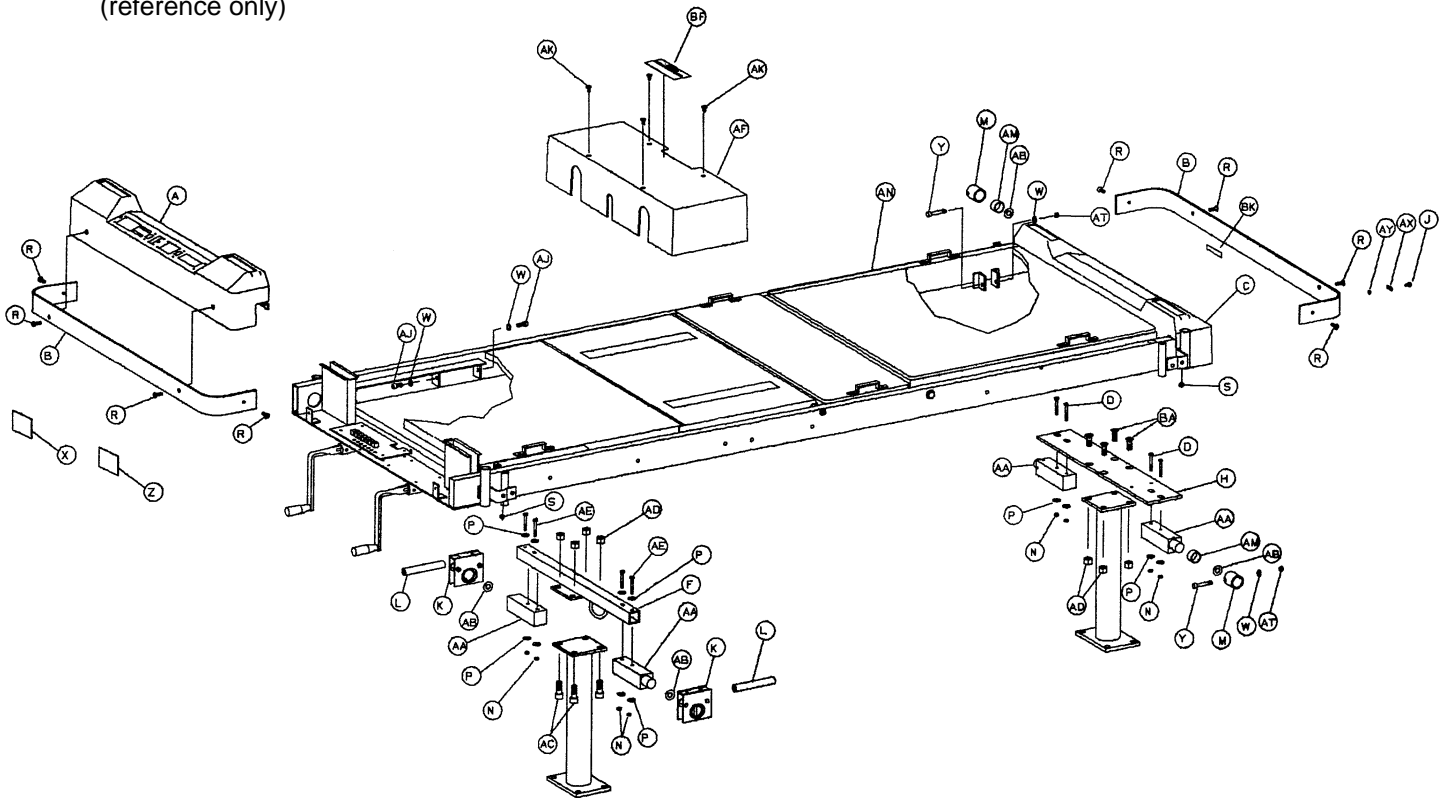
Basic Litter Assembly

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 73)	Gatch Assembly	1	BE	52-91	Strain Relief	7
B	*	Fowler Assembly	1	BF	52-98	Cable Clamp	1
C	2020-16-527	Hd./Ft. Bd. Pad	4	BH	16-11	Flexlock Nut	4
D	13-32	Ext. Tooth Lock Washer	1	BJ	14-3	Graphite Washer	4
E	2020-2-657	Litter Grd. Jumper Wire	1	BK	11-63	Flat Washer	1
F	2020-16-555	Enclosure Cover	1	BL	460-2-32	Grounding Cable	1
H	958-1-526	Fowler Slide, Left	1	BM	38-112	Cable Mount	6
J	2020-16-950	Litter Power Ctrl. Board	1	BN	2020-2-648	Gatch Safety Switch	2
K	926-33-17	Spacer	2	BP	4-32	Soc. Hd. Cap Screw	2
L	958-1-525	Fowler Slide, Right	1	BR	2020-2-640	Litter Control Cable	1
M	988-31-623	Fowler Retention Pin	2	BS	4-72	Soc. Hd. Cap Screw	4
N	988-31-624	Fowler Pivot Liner	4	BT	2020-1-115	Label	2
P	958-1-555	Fowler Stop	2	BW	4-129	Hex Soc. But. Cap Scr.	2
R	958-31-618	Fowler Slide Lever	2	BX	4-82	Soc. Hd. Cap Screw	4
S	926-33-36	Bearing	2	BY	23-25	Self-Tapping Screw	1
T	(page 76)	Fowler C'screw Ass'y	1	BZ	52-81	Grommet	2
W	(page 75)	Gatch C'screw Ass'y	1	CA	4-7	Soc. Hd. Cap Screw	1
X	30-17	Nylon Grommet	4"	CB	13-17	Ext. Th. Lock Washer	17
Y	11-156	Washer	4	CC	16-3	Fiberlock Nut	1
Z	938-1-166	Modified Bolt	4	CD	2020-2-649	Fowler Safety Switch	2
AA	988-31-625	Fowler Arm Spacer	4	CE	4-142	Soc. Hd. Cap Screw	1
AB	2020-57-900	Control Board	1	CF	52-84	Strain Relief	1
AC	44-29	Double-Sided Tape	12'	CH	11-103	Washer	5
AD	11-13	Washer	2	CJ	2020-1-161	Fuse Label	1
AE	958-75-16	Brace Assembly	1	CK	4-118	Soc. Hd. Cap Screw	5
AF	938-1-359	U-Bolt	1	CL	2020-1-571	Midsect. Skin Cover	2
AH	3-17	Hex Hd. Cap Screw	1	CM	393-53-20	Strap Anchor	4
AJ	37-49	Hole Plug	6	CN	946-1-108	I.V. Clip	2
AK	37-10	Hole Plug	4	CP	23-64	Screw	2
AL	52-77	Spacer	2	CR	52-89	Nylon Mach. Screw	7
AM	11-2	Flat Washer	6	CS	52-88	Spacer	2
AN	16-16	Fiberlock Nut	7	CT	37-41	Hole Plug	2
AP	4-28	Soc. Hd. Cap Screw	5	CW	52-87	Rt. Ang. Strain Relief	1
AR	4-86	Soc. Hd. Cap Screw	2	CY	15-4	Jam Nut	4
AS	15-13	Hex Jam Nut	4	CX	13-18	Ext. Th. Lock Washer	6
AT	11-4	Washer	2	DA	4-101	Soc. Hd. Cap Screw	7
AW	4-86	Soc. Hd. Cap Screw	1	DB	4-82	Washer	2
AX	25-69	Pop Rivet	4	DC	15-1	Jam Nut	2
AY	28-50	Retaining Ring	2	DD	2020-15-513	Rubber Stripping	6'
AZ	16-12	Flex Lock Nut	1	DE	2020-1-703	Bumper Tread	2
BA	13-10	Ext. Th. Lock Washer	2	DF	4-38	Soc. Hd. Cap Screw	1
BB	11-1	Flat Washer	5	DH	38-111	Cable Tie	1
BC	17-6	Acorn Nut	2	DJ	946-1-115	Cushion	2
BD	2020-1-565	Litter Caulking	30"	DK	25-110	Pop Rivet	8

* When 2020-31, Standard Fowler Option, is ordered, use Fowler frame part number 988-2-587. When 2020-62, Head Extension Fowler Option, is ordered, use Fowler frame part number 2020-62-12. When 2020-31, Standard Fowler Option, is ordered, use Fowler skin part number 988-31-635. When 2020-62, Head Extension Fowler Option, is ordered, use Fowler skin part number 2020-62-28.

Litter Assembly, Basic Bed

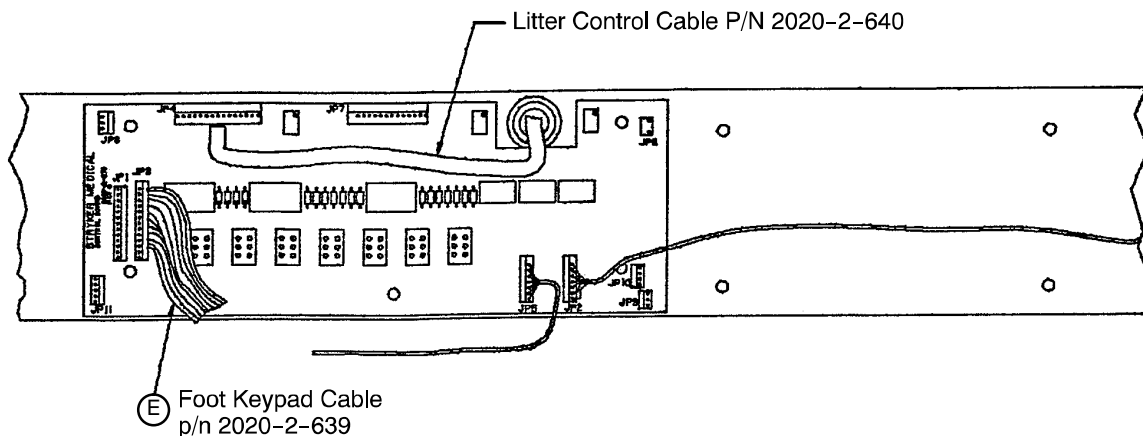
Assembly part number 2020-49-510
(reference only)



CABLE ROUTING DETAIL

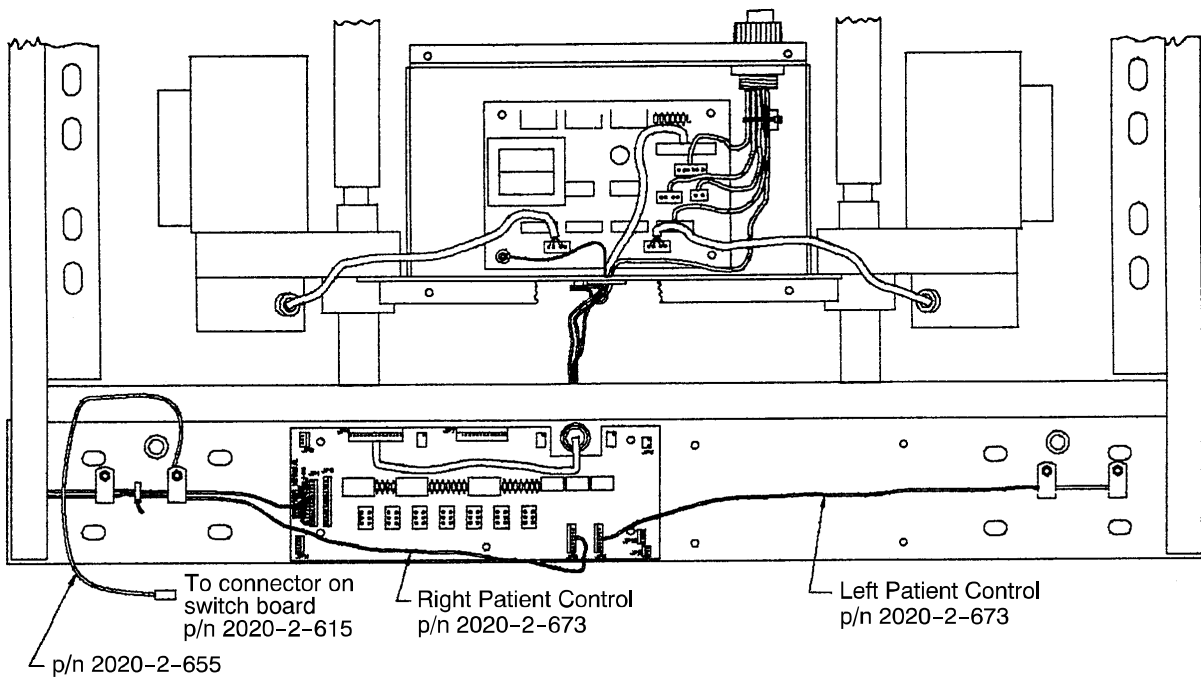
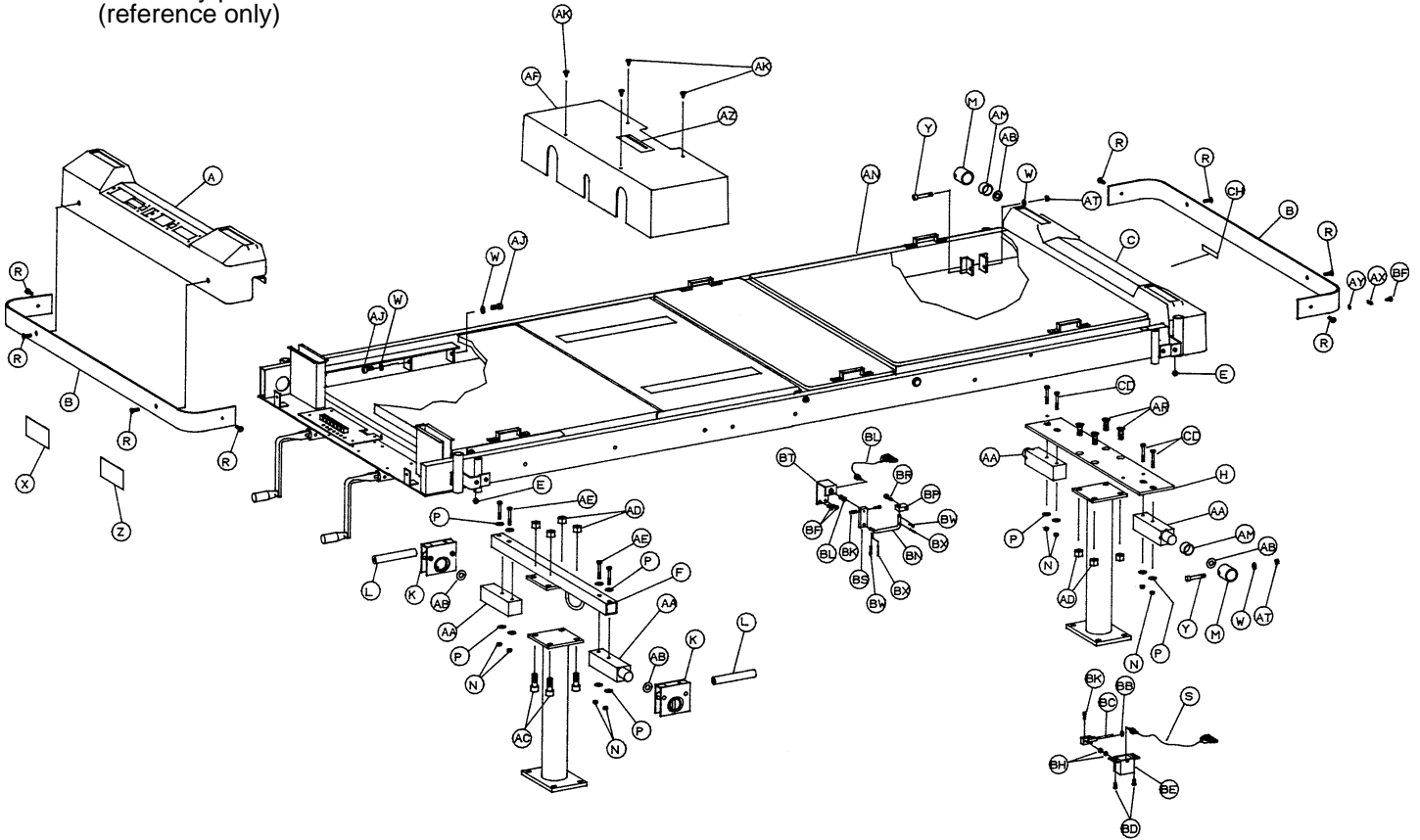
Litter Assembly, Basic Bed

Item	Part No.	Part Name	Qty.
A	(page 69)	Frame End Assembly	1
B	2020-15-512	Bumper, Coated	2
C	2020-15-515	Frame End	1
D	3-97	Hex Hd. Cap Screw	4
E	2020-2-639	Ft. End Keypad & Disp. Cable	1
F	2020-16-553	Crosstube Ass'y, Foot End	1
H	2020-1-519	Crossbar, Head End	1
J	23-25	Self-Tapping Screw	1
K	958-1-576	Roller & Sleeve Ass'y	2
L	2020-1-521	Roller Shaft	2
M	958-1-595	Sleeve, Head End	2
N	16-61	Lock Nut	8
P	11-280	Flat Washer	12
R	1-80	Flat Hd. Mach. Screw	8
S	16-15	Fiberlock Nut	4
W	12-20	Lock Washer	12
X	946-1-64	Label, Fowler	1
Y	4-124	Soc. Hd. Cap Screw	2
Z	946-1-65	Label, Gatch	1
AA	958-1-578	Support Tube Assembly	4
AB	52-109	Spacer	4
AC	4-109	Soc. Hd. Cap Screw	4
AD	16-40	Flexlock Nut	8
AE	3-98	Hex Hd. Cap Screw	4
AF	2020-16-552	Actuator Cover	1
AJ	4-21	Soc. Hd. Cap Screw	6
AK	23-65	Self-Tapping Screw	4
AM	52-45	DU Bushing	2
AN	(page 50)	Litter Assembly, Electrical	1
AR	15-27	Jam Nut	2
AT	16-11	Fiberlock Hex Nut	2
AX	34-196	Male Connector	1
AY	13-17	External Tooth Lock Washer	3
BA	1-71	Flat Hd. Soc. Screw	4
BB	4-12	Soc. Hd. Cap Screw	1
BF	988-2-708	Shock Hazard Label	1
BK	988-1-562	I.V. Storage Label	1



Litter Assembly, Position Option

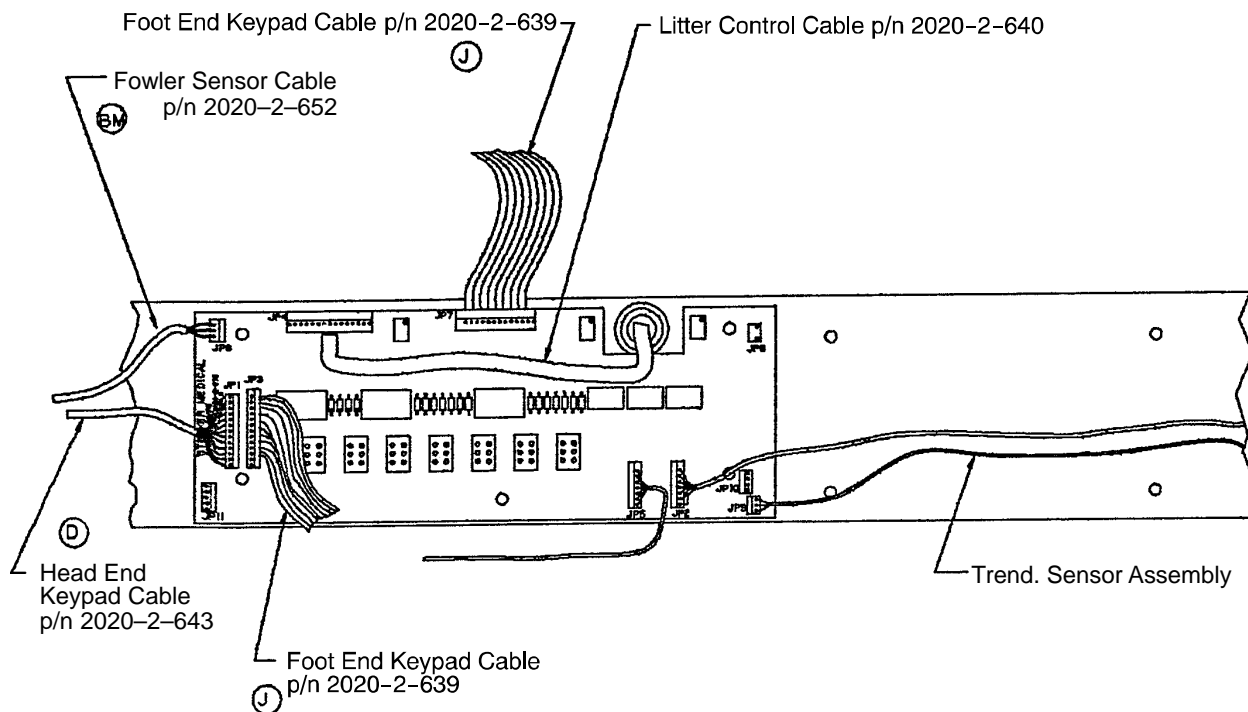
Assembly part number 2020-50-510
(reference only)



CABLE ROUTING DETAIL

Litter Assembly, Position Option

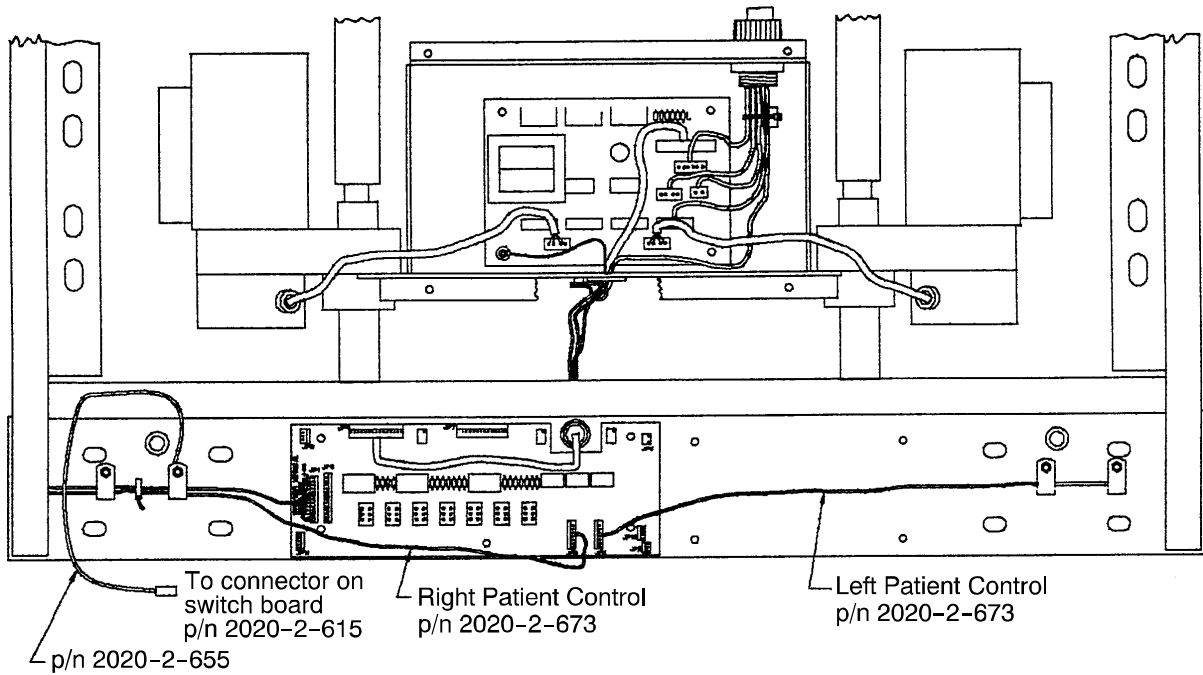
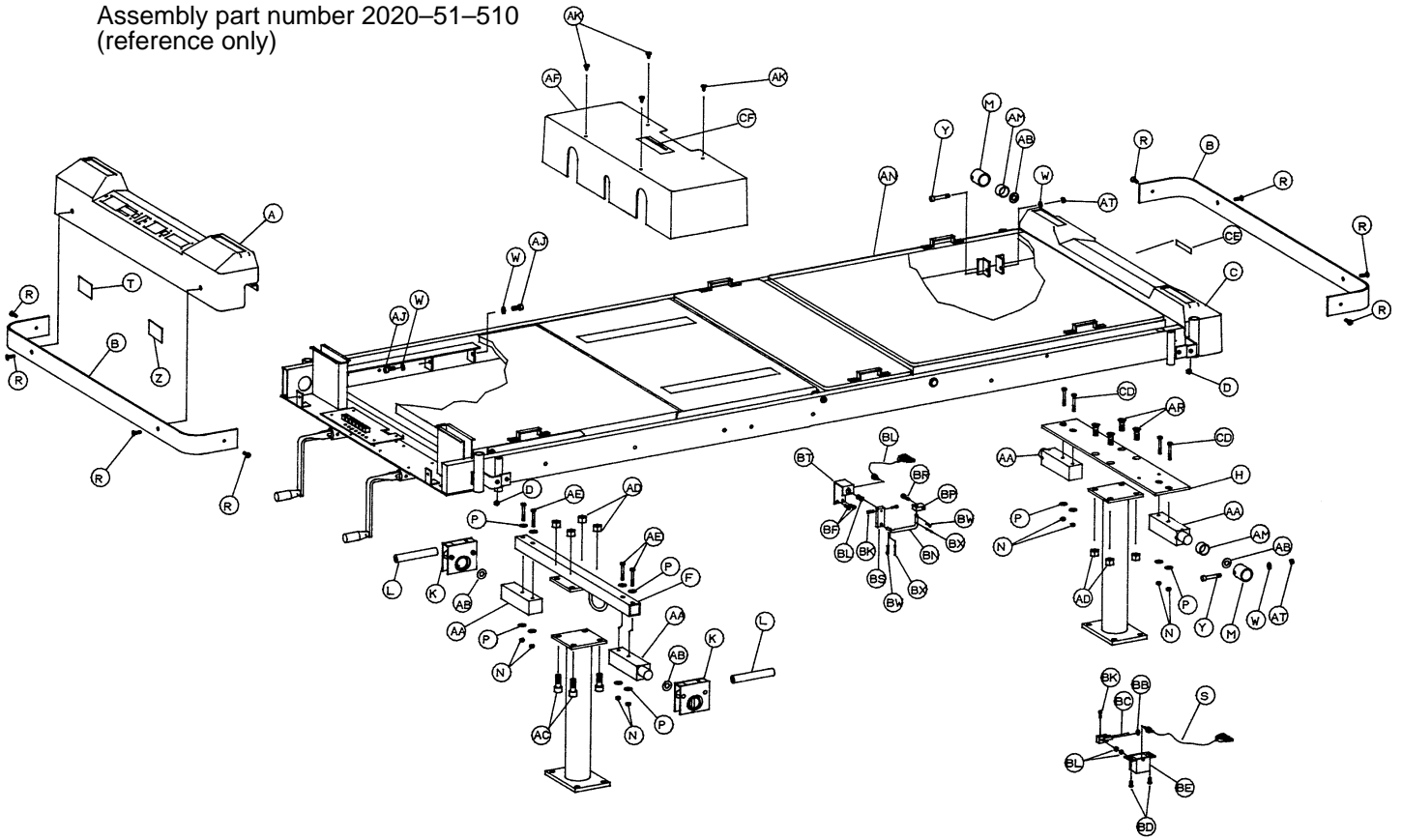
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 69)	Frame End Ass'y	1	AM	52-45	DU Bushing	2
B	2020-15-512	Bumper, Coated	2	AN	(page 50)	Litter Ass'y, Electrical	1
C	(page 72)	Frame End	1	AR	1-71	Flat Hd. Soc. Screw	4
D	2020-2-643	Head End Keypad Cable	1	AT	16-11	Fiberlock Hex Nut	2
E	16-15	Fiberlock Nut	4	AX	34-196	Male Connector	1
F	2020-16-553	Crosstube Ass'y, Foot	1	AY	13-17	Ext. Tooth Lock Washer	3
H	2020-1-519	Crossbar, Head End	1	AZ	988-2-708	Caution Label	1
J	2020-2-639	Ft. End Keypad Disp. Cbl.	2	BA	29-7	Dual Lock	1
K	958-1-576	Roller & Sleeve Ass'y	2	BB	52-705	Grommet	1
L	2020-1-521	Roller Shaft	2	BC	2020-50-532	Clamp & Shaft Ass'y	1
M	958-1-595	Sleeve, Head End	2	BD	23-55	Self-Tapping Screw	2
N	16-61	Lock Nut	8	BE	2020-53-520	Pot Housing	1
P	11-280	Flat Washer	12	BF	23-25	Self-Tapping Screw	3
R	1-80	Flat Hd. Mach. Screw	8	BJ	2020-2-654	Trend. Pot. Cable Ass'y	1
S	2020-2-651	F/T Pot. Cable	1	BK	4-42	Soc. Hd. Cap Screw	4
W	12-20	Lock Washer	12	BL	2020-2-681	Fow. Pot. Cable Ass'y	1
X	946-1-64	Label, Fowler	1	BM	2020-2-652	Fow. Pot. Sen. Cable	1
Y	4-124	Soc. Hd. Cap Screw	2	BN	988-2-244	Fowler Pivot Link	1
Z	946-1-65	Label, Gatch	1	BP	988-2-243	Fowler Pivot Block	1
AA	958-1-578	Support Tube Assembly	4	BR	8-21	Shoulder Bolt	1
AB	52-109	Spacer	4	BS	988-2-231	Fowler Pot. Actuator	1
AC	4-109	Soc. Hd. Cap Screw	4	BT	2020-31-622	Fowler Pot. Bracket	1
AD	16-40	Flexlock Nut	8	BW	27-13	Cotter Pin	2
AE	3-98	Hex Hd. Cap Screw	4	BX	26-34	Roll Pin	2
AF	2020-16-552	Actuator Cover	1	CC	38-111	Cable Tie	5
AJ	4-21	Soc. Hd. Cap Screw	4	CD	3-97	Hex Hd. Cap Screw	4
AK	23-65	Self-Tapping Screw	4	CE	988-1-562	I.V. Storage Label	1
AL	29-9	Dual Lock	1				



LITTER CONTROL BOARD CONNECTIONS

Litter Assembly, Position Option, w/o Head End Keypad

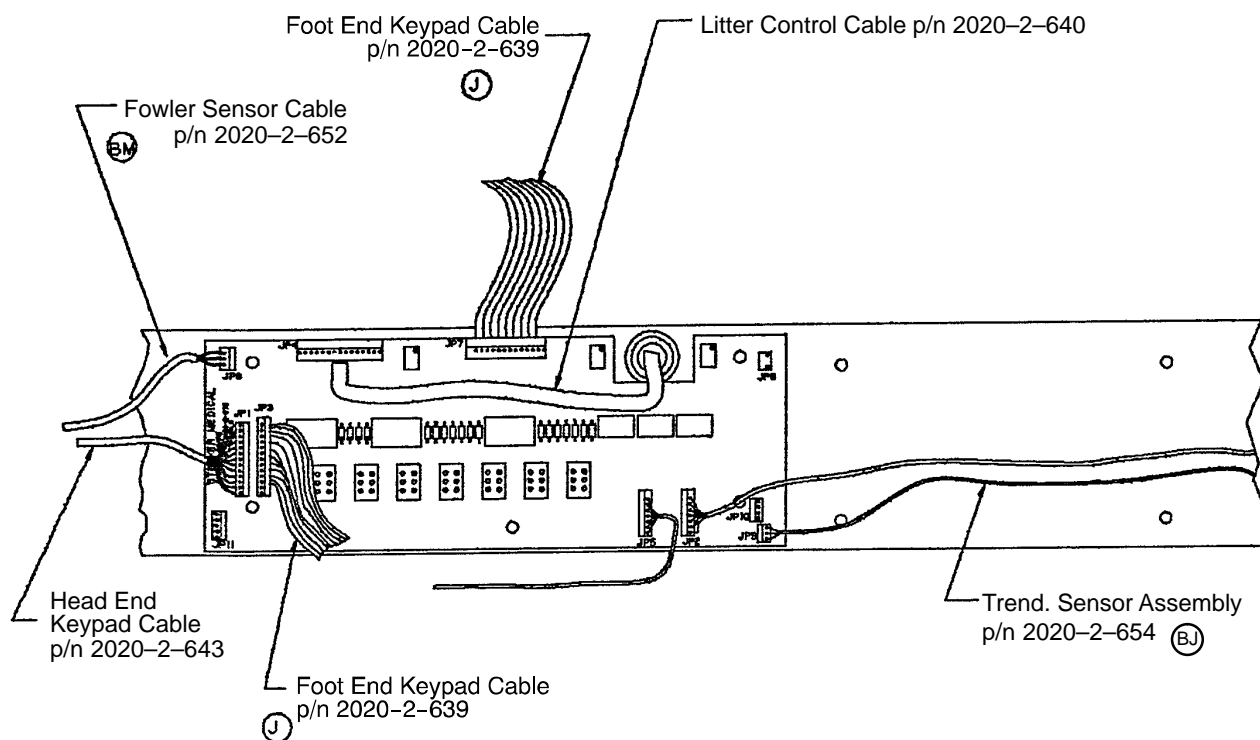
Assembly part number 2020-51-510
(reference only)



CABLE ROUTING DETAIL

Litter Assembly, Position Option, w/o Head End Keypad

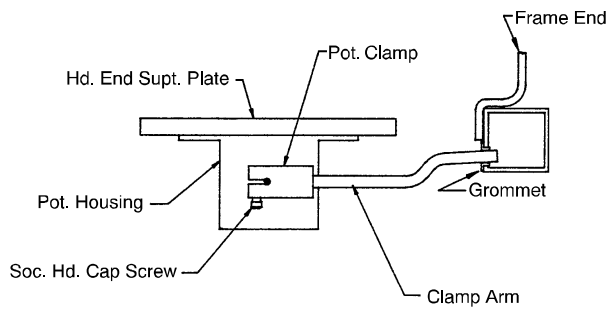
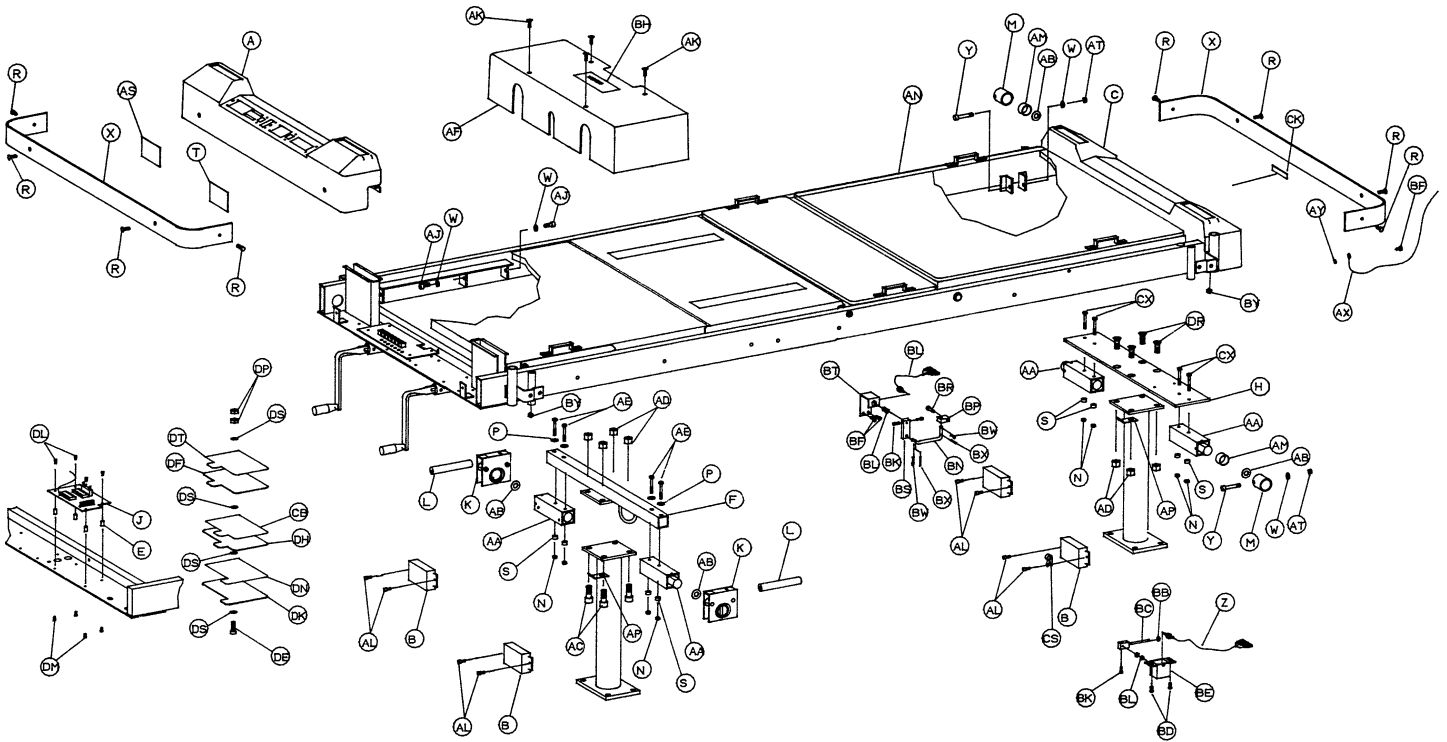
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 69)	Frame End Ass'y	1	AM	52-45	DU Bushing	2
B	2020-15-512	Bumper, Coated	2	AN	(page 50)	Litter Ass'y, Electrical	1
C	2020-15-515	Frame End	1	AR	1-71	Flat Hd. Soc. Screw	4
D	16-15	Fiberlock Nut	4	AT	16-11	Fiberlock Hex Nut	2
F	2020-16-553	Crosstube Ass'y, Foot	1	AY	13-17	Ext. Tooth Lock Washer	2
H	2020-1-519	Crossbar, Head End	1	BA	29-7	Dual Lock	1
J	2020-2-639	Ft. End Keypad Disp. Cbl.	2	BB	52-705	Grommet	1
K	958-1-576	Roller & Sleeve Ass'y	2	BC	2020-50-532	Clamp & Shaft Ass'y	1
L	2020-1-521	Roller Shaft	2	BD	23-55	Self-Tapping Screw	2
M	958-1-595	Sleeve, Head End	2	BE	2020-53-520	Pot Housing	1
N	16-61	Lock Nut	8	BF	23-25	Self-Tapping Screw	2
P	11-280	Flat Washer	12	BJ	2020-2-654	Trend. Pot. Cable Ass'y	1
R	1-80	Flat Hd. Mach. Screw	8	BK	4-42	Soc. Hd. Cap Screw	4
S	2020-2-651	F/T Pot. Cable Ass'y	1	BL	2020-2-681	Fow. Pot. Cable Ass'y	1
T	946-1-64	Fowler Label	1	BM	2020-2-652	Fowler Pot. Sen. Cable	1
W	12-20	Lock Washer	12	BN	988-2-244	Fowler Pivot Link	1
Y	4-124	Soc. Hd. Cap Screw	2	BP	988-2-243	Fowler Pivot Block	1
Z	946-1-65	Gatch Label	1	BR	8-21	Shoulder Bolt	1
AA	958-1-578	Support Tube Assembly	4	BS	988-2-231	Fowler Pot. Actuator	1
AB	52-109	Spacer	4	BT	2020-31-622	Fowler Pot. Bracket	1
AC	4-109	Soc. Hd. Cap Screw	4	BW	27-13	Cotter Pin	2
AD	16-40	Flexlock Nut	8	BX	26-34	Roll Pin	2
AE	3-98	Hex Hd. Cap Screw	4	CC	38-111	Cable Tie	5
AF	2020-16-552	Actuator Cover	1	CD	3-97	Hex Hd. Cap Screw	4
AJ	4-21	Soc. Hd. Cap Screw	4	CE	988-1-562	I.V. Storage Label	1
AK	23-65	Self-Tapping Screw	4	CF	988-2-708	Caution Label	1
AL	29-9	Dual Lock	1				



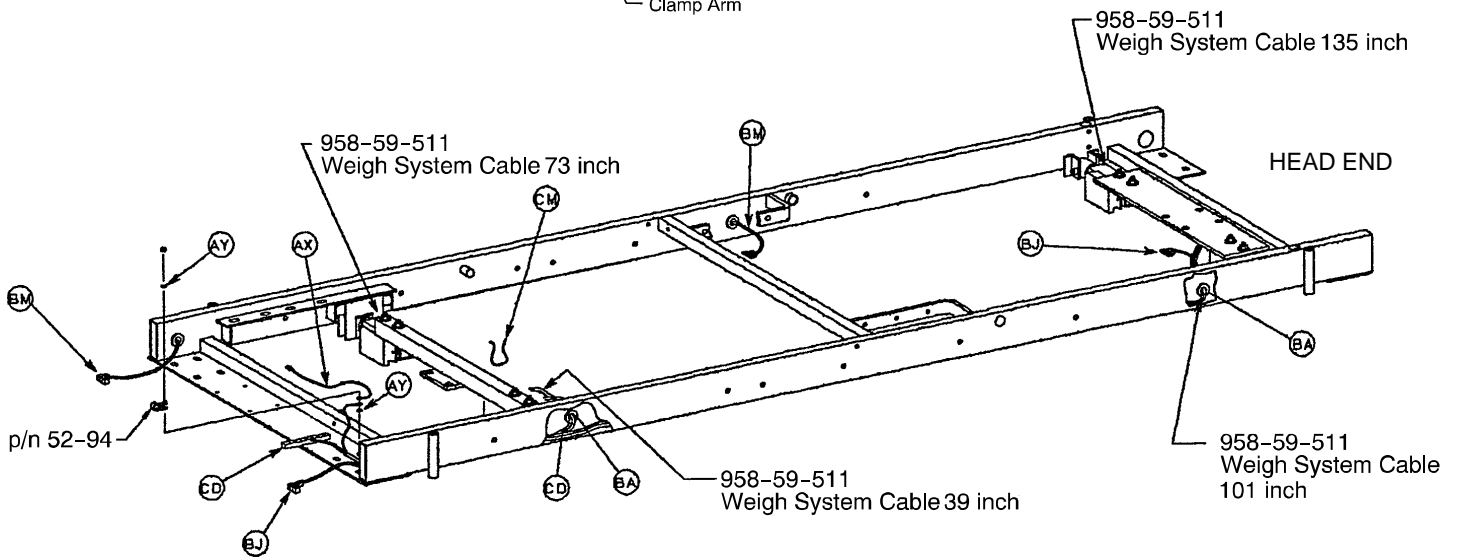
LITTER CONTROL BOARD CONNECTIONS

Litter Assembly, All Options

Assembly part number 2020-52-510 (reference only)

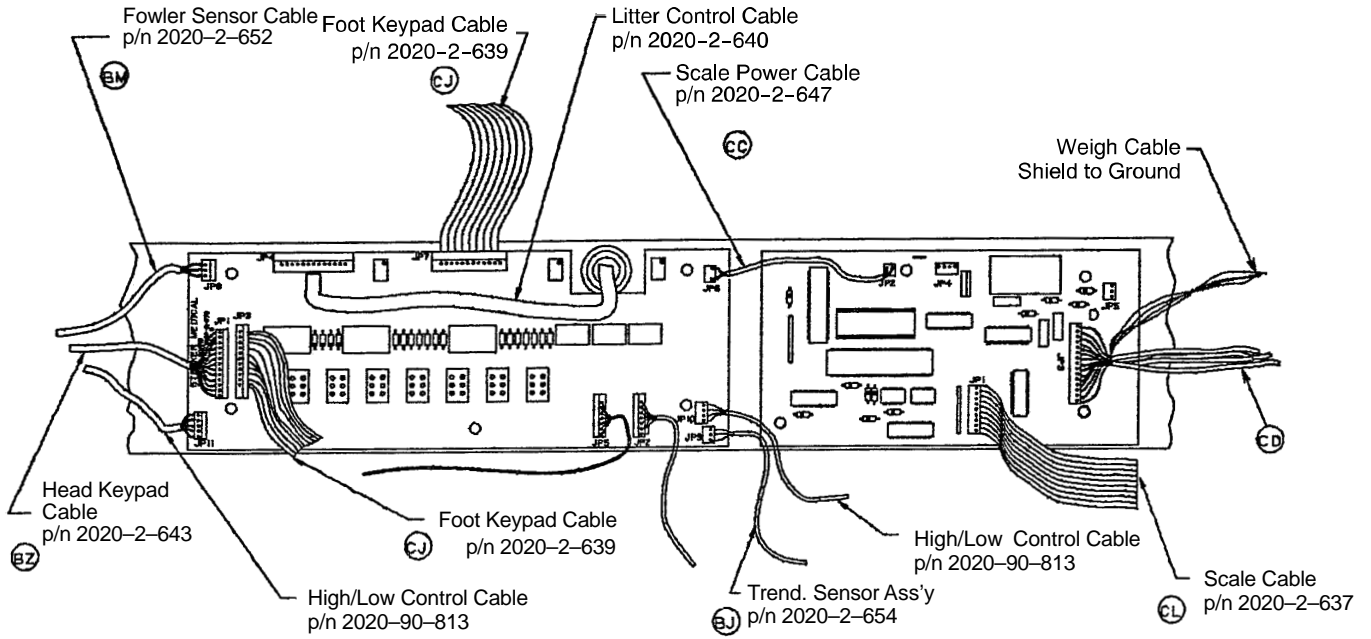


ORIENTATION OF POT CLAMP AND SCREW

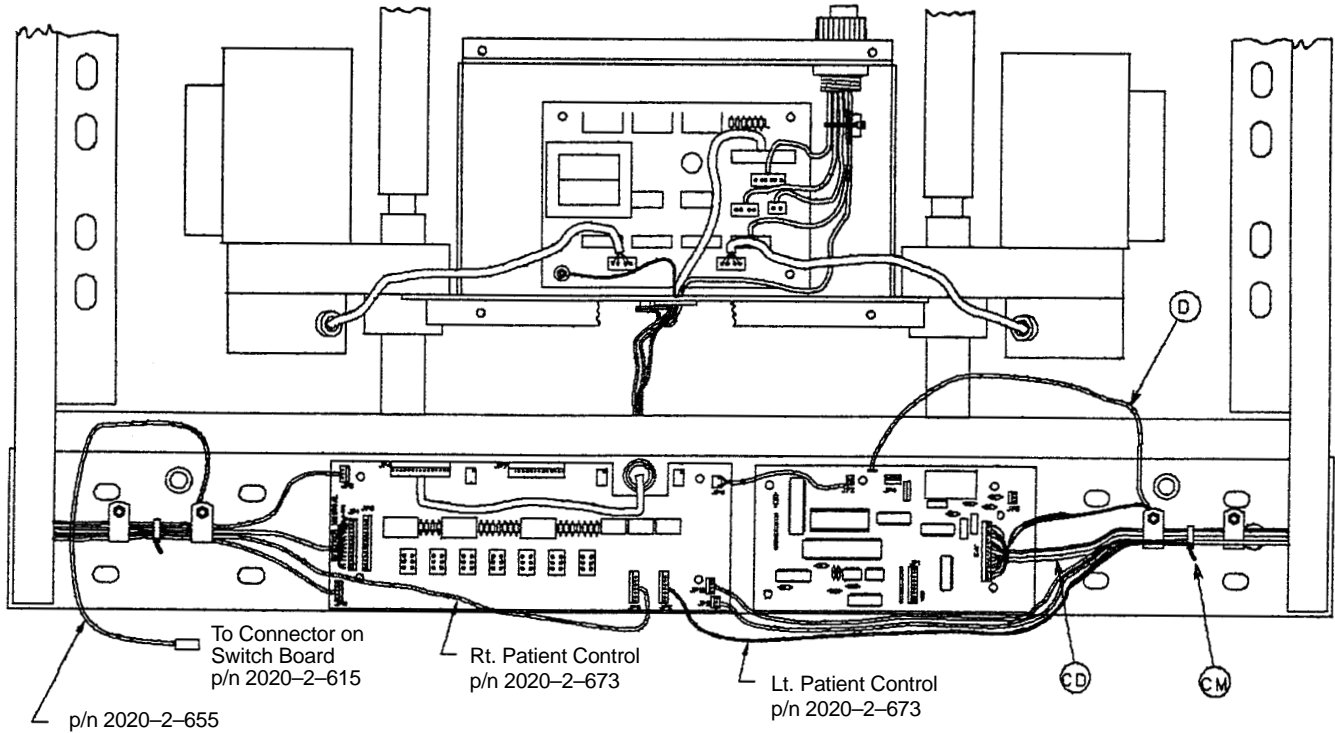


FRAME ASSEMBLY ELECTRICAL

Litter Assembly, All Options



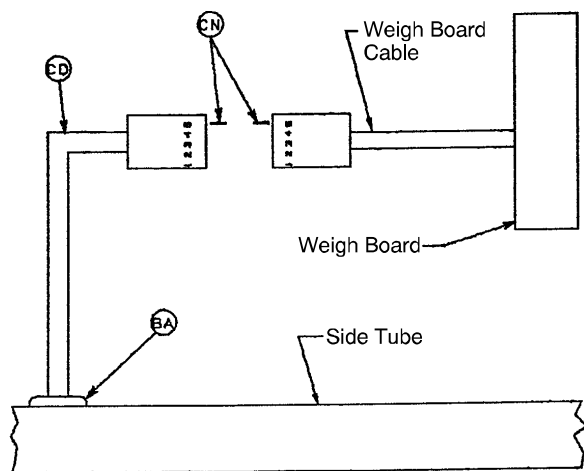
LITTER CONTROL BOARD/WEIGH BOARD CONNECTIONS



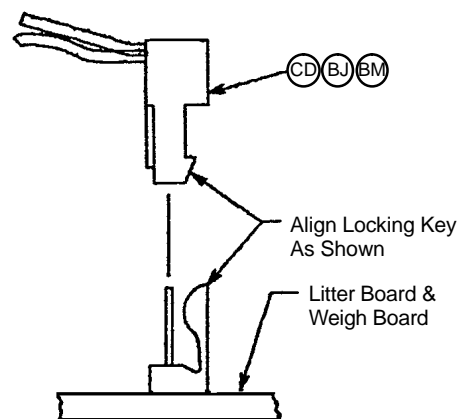
CABLE ROUTING DETAIL

Litter Assembly, All Options

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 72)	Frame End Ass'y	1	BE	2020-53-520	Pot. Housing	1
B	2020-59-411	Cover	4	BF	23-25	Self-Tapping Screw	3
C	(page 72)	Frame End Ass'y, Head	1	BH	988-2-708	Caution Label	1
D	2020-2-629	Ground Wire	1	BJ	2020-2-654	Trend. Pot. Cable Ass'y	1
E	52-91	Threaded Spacer	4	BK	4-42	Soc. Hd. Cap Screw	4
F	2020-16-553	Crosstube Ass'y, Foot	1	BL	2020-2-681	Fowler Pot. Cable Ass'y	1
H	2020-1-519	Crossbar, Head End	1	BM	2020-2-652	Fow. Pot. Sen. Cable	1
J	2020-57-511	Scale Computer Board	1	BN	988-2-244	Fowler Pivot Link	1
K	958-1-576	Roller & Sleeve Ass'y	2	BP	988-2-243	Fowler Pivot Block	1
L	2020-1-521	Roller Shaft	2	BR	8-21	Shoulder Bolt	1
M	958-1-595	Sleeve, Head End	2	BS	988-2-231	Fowler Pot. Actuator	1
N	16-61	Fiberlock Nut	8	BT	2020-31-622	Fowler Pot. Bracket	1
P	11-280	Flat Washer	4	BW	27-13	Cotter Pin	2
R	1-80	Flat Hd. Mach. Screw	8	BX	26-34	Roll Pin	2
S	2020-59-518	Spacer	8	BY	16-15	Fiberlock Nut	4
T	946-1-65	Gatch Label	1	BZ	2020-2-643	Hd. End Keypad Cable	1
W	12-20	Lock Washer	12	CB	2020-1-139	Instruction Label, Middle	1
X	2020-15-512	Bumper, Coated	2	CC	2020-2-647	Scale Power Cable	1
Y	4-124	Soc. Hd. Cap Screw	2	CD	958-59-511	Weigh System Cable	1
Z	2020-2-651	F/T Pot. Cable Ass'y	1	CF	29-7	Dual Lock	1
AA	2020-59-520	Load Cell Assembly	4	CH	29-9	Dual Lock	1
AB	52-109	Spacer	4	CJ	2020-2-639	Ft. End Keypad Cable	2
AC	4-109	Soc. Hd. Cap Screw	4	CK	988-1-562	I.V. Storage Label	1
AD	16-40	Flexlock Nut	8	CL	2020-2-637	Scale Cable Assembly	1
AE	3-98	Hex Hd. Cap Screw	4	CM	38-111	Cable Tie	15
AF	2020-16-552	Actuator Cover	1	CN	59-42	Key	8
AJ	4-21	Soc. Hd. Cap Screw	4	CT	16-3	Lock Washer	4
AK	23-65	Self-Tapping Screw	4	CX	3-97	Hex Hd. Cap Screw	4
AL	4-118	Soc. Hd. Cap Screw	4	CY	11-103	Flat Washer	4
AM	52-45	DU Bushing	2	DE	4-12	Soc. Hd. Cap Screw	1
AN	(page 50)	Litter Ass'y, Electrical	1	DF	2020-1-572	Instruction Tab, Top	1
AP	2020-1-554	Wire Guide	2	DH	2020-1-573	Instruction Tab, Middle	1
AS	946-1-64	Fowler Label	1	DK	2020-1-574	Instruction Tab, Bottom	1
AT	16-11	Fiberlock Hex Nut	2	DL	52-89	Nylon Screw	4
AX	2020-2-629	Foil Shield Wire	1	DM	4-101	Hex Soc. Hd. Screw	4
AY	13-17	Ext. Tooth Lock Washer	3	DN	2020-1-140	Instruction Label, Bottom	1
BA	30-17	Rubber Grommet	3	DP	15-27	Jam Nut	2
BB	52-705	Grommet	1	DR	1-71	Flat Hd. Soc. Screw	4
BC	2020-50-532	Clamp & Shaft Ass'y	1	DS	14-20	Nylon Washer	4
BD	23-55	Self-Tapping Screw	2	DT	2020-1-138	Instruction Label, Top	1



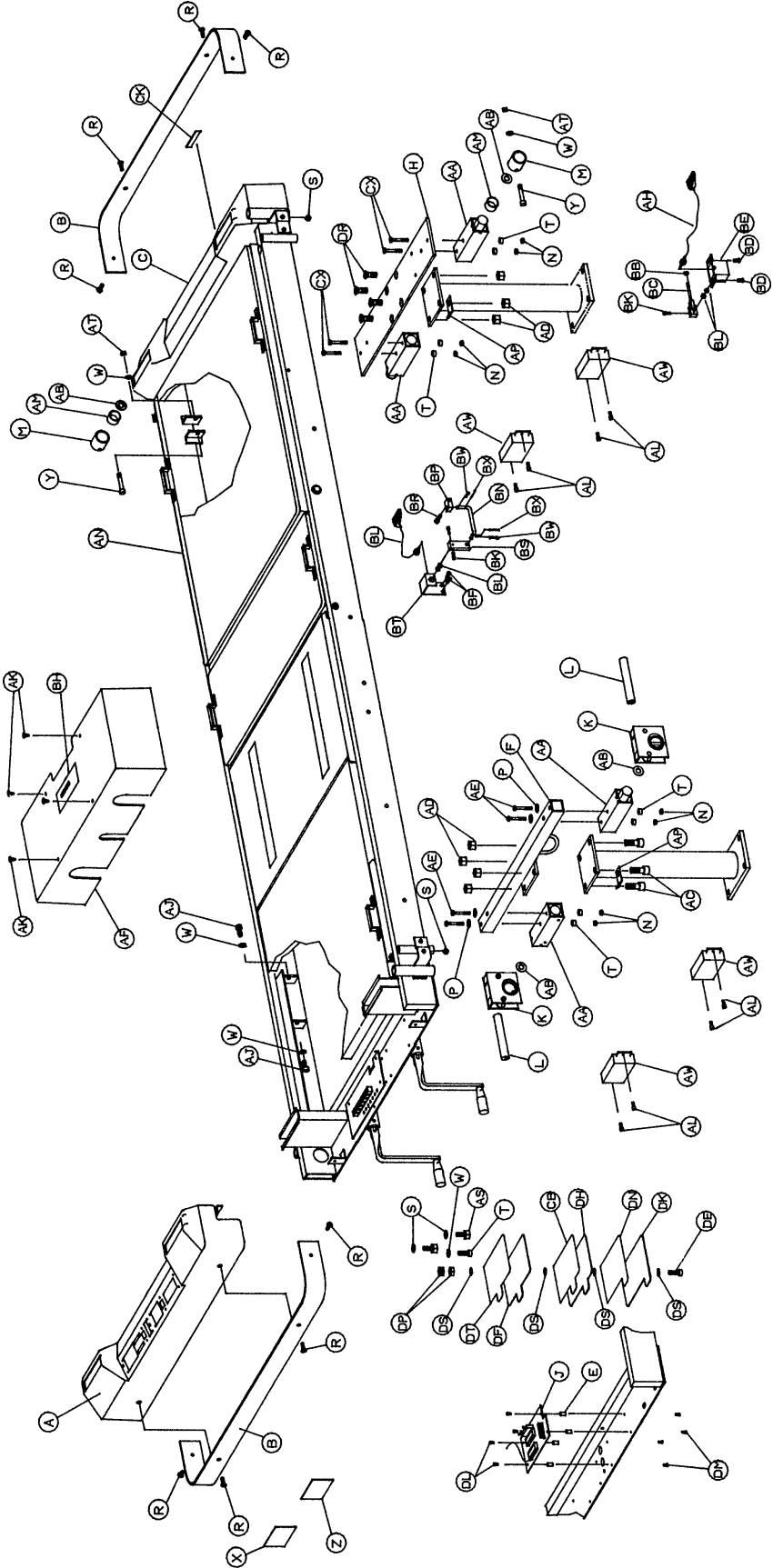
WEIGH BOARD TO WEIGH CABLE CONNECTIONS



CABLE CONNECTIONS

Litter Assembly, All Options, without Head End Keypad

Assembly part number 2020-53-510 (reference only)

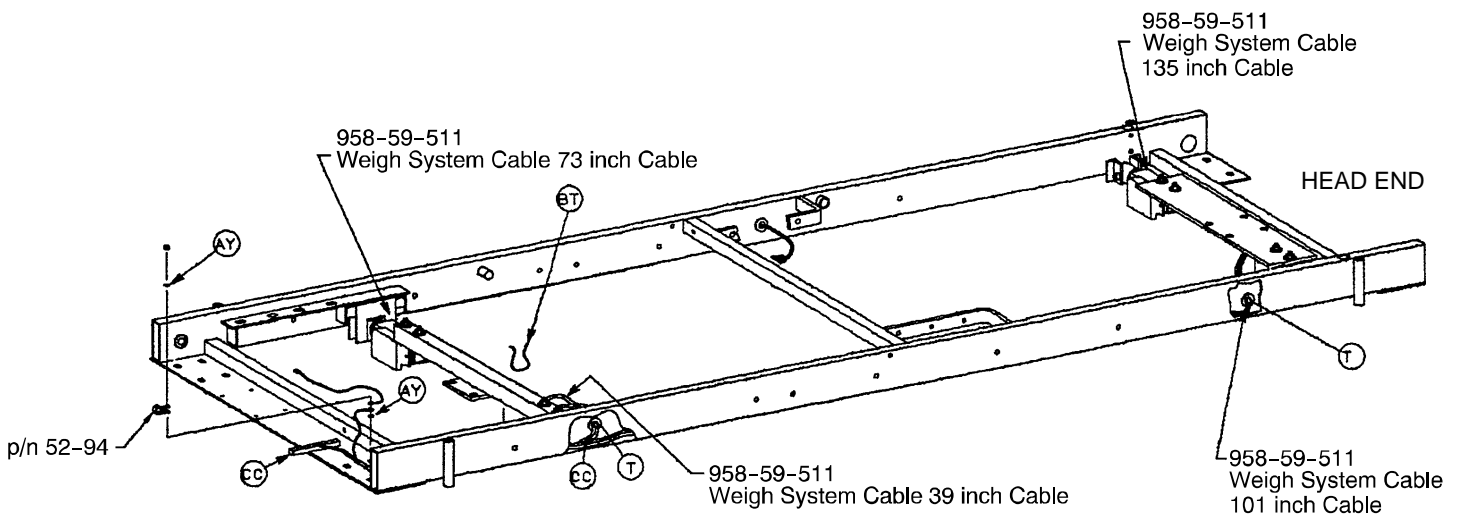
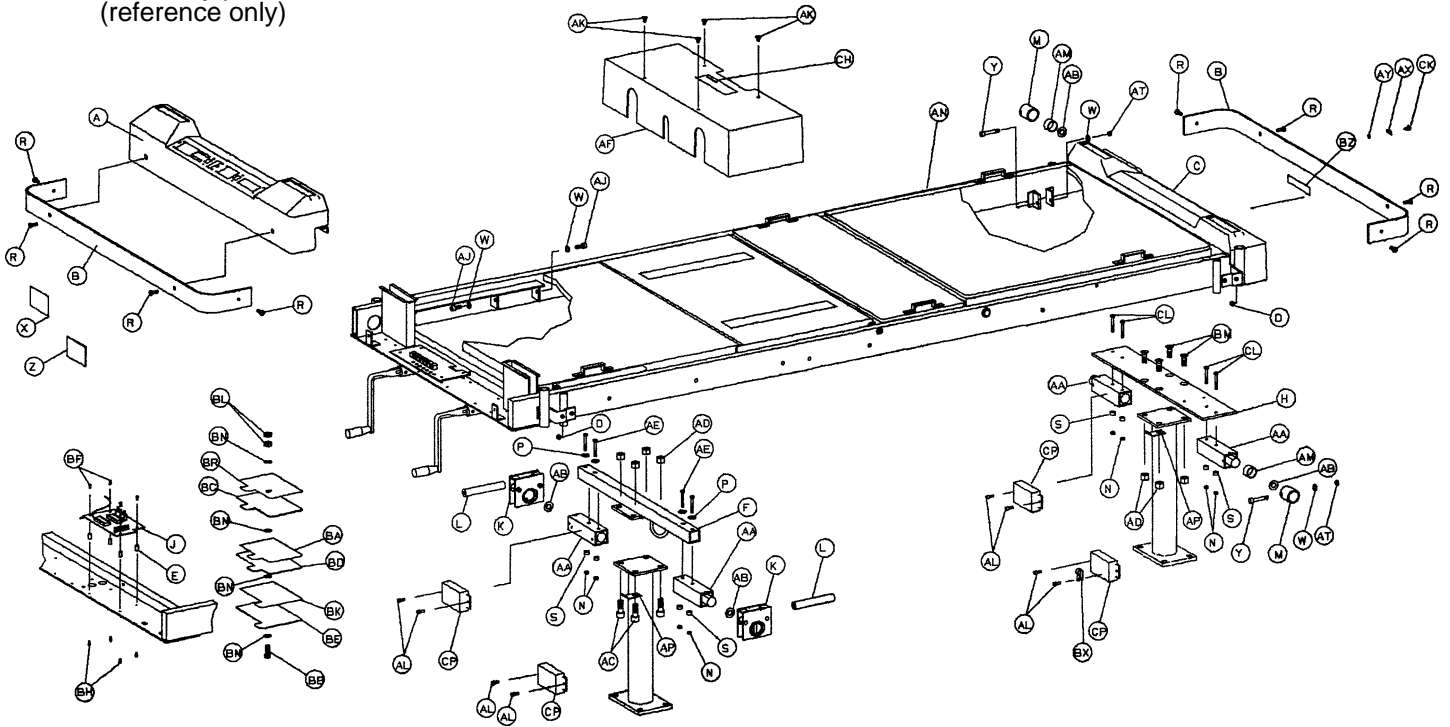


Litter Assembly, All Options, without Head End Keypad

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 72)	Frame End Ass'y	1	BE	2020-53-520	Pot. Housing	1
B	2020-15-512	Bumper, Coated	2	BF	23-25	Self-Tapping Screw	2
C	2020-15-515	Frame End Ass'y	1	BH	988-2-708	Caution Label	1
D	2020-2-629	Ground Wire	1	BJ	2020-2-654	Trend. Pot. Cable Ass'y	1
E	52-91	Threaded Spacer	4	BK	4-42	Soc. Hd. Cap Screw	4
F	2020-16-553	Crosstube Ass'y, Foot	1	BL	2020-2-681	Fowler Pot. Cable Ass'y	1
H	2020-1-519	Crossbar, Head End	1	BM	2020-2-652	Fow. Pot. Sen. Cable	1
J	2020-57-511	Scale Computer Board	1	BN	988-2-244	Fowler Pivot Link	1
K	958-1-576	Roller & Sleeve Ass'y	2	BP	988-2-243	Fowler Pivot Block	1
L	2020-1-521	Roller Shaft	2	BR	8-21	Shoulder Bolt	1
M	958-1-595	Sleeve, Head End	2	BS	988-2-231	Fowler Pot. Actuator	1
N	16-61	Lock Nut	8	BT	2020-31-622	Fowler Pot. Bracket	1
P	11-280	Flat Washer	4	BW	27-13	Cotter Pin	2
R	1-80	Flat Hd. Mach. Screw	8	BX	26-34	Roll Pin	2
S	16-15	Fiberlock Nut	4	CB	2020-1-139	Instruction Label, Middle	1
T	2020-59-518	Spacer	8	CC	2020-2-647	Scale Power Cable	1
W	12-20	Lock Washer	16	CD	958-59-511	Weigh System Cable	1
X	946-1-64	Fowler Label	1	CF	29-7	Dual Lock	1
Y	4-124	Soc. Hd. Cap Screw	2	CH	29-9	Dual Lock	1
Z	946-1-65	Gatch Label	1	CJ	2020-2-639	Ft. End Keypad Cable	2
AA	2020-59-520	Load Cell Assembly	4	CK	988-1-562	I.V. Storage Label	1
AB	52-109	Spacer	4	CL	2020-2-637	Scale Cable Assembly	1
AC	4-109	Soc. Hd. Cap Screw	4	CM	38-111	Cable Tie	15
AD	16-40	Flexlock Nut	8	CN	59-42	Key	8
AE	3-98	Hex Hd. Cap Screw	4	CT	16-3	Lock Washer	4
AF	2020-16-552	Actuator Cover	1	CW	11-1	Washer	4
AH	2020-2-651	F/T Pot. Cable Ass'y	1	CX	3-97	Hex Hd. Cap Screw	4
AJ	4-21	Soc. Hd. Cap Screw	4	CY	11-103	Flat Washer	4
AK	23-65	Self-Tapping Screw	4	DE	4-12	Soc. Hd. Cap Screw	1
AL	4-118	Soc. Hd. Cap Screw	8	DF	2020-1-572	Instruction Tab, Top	1
AM	52-45	DU Bushing	2	DH	2020-1-573	Instruction Tab, Middle	1
AN	(page 50)	Litter Ass'y, Electrical	1	DK	2020-1-574	Instruction Tab, Bottom	1
AP	2020-1-554	Wire Guide	2	DL	52-89	Nylon Screw	4
AT	16-11	Fiberlock Hex Nut	2	DM	4-101	Hex Soc. Hd. Screw	4
AW	2020-59-411	Cover	4	DN	2020-1-140	Instruction Label, Bottom	1
AY	13-17	Ext. Tooth Lock Washer	2	DP	15-27	Jam Nut	2
BA	30-17	Rubber Grommet	3	DR	1-71	Flat Hd. Soc. Screw	4
BB	52-705	Grommet	1	DS	14-20	Nylon Washer	4
BC	2020-50-532	Clamp & Shaft Ass'y	1	DT	2020-1-138	Instruction Label, Top	1
BD	23-55	Self-Tapping Screw	2				

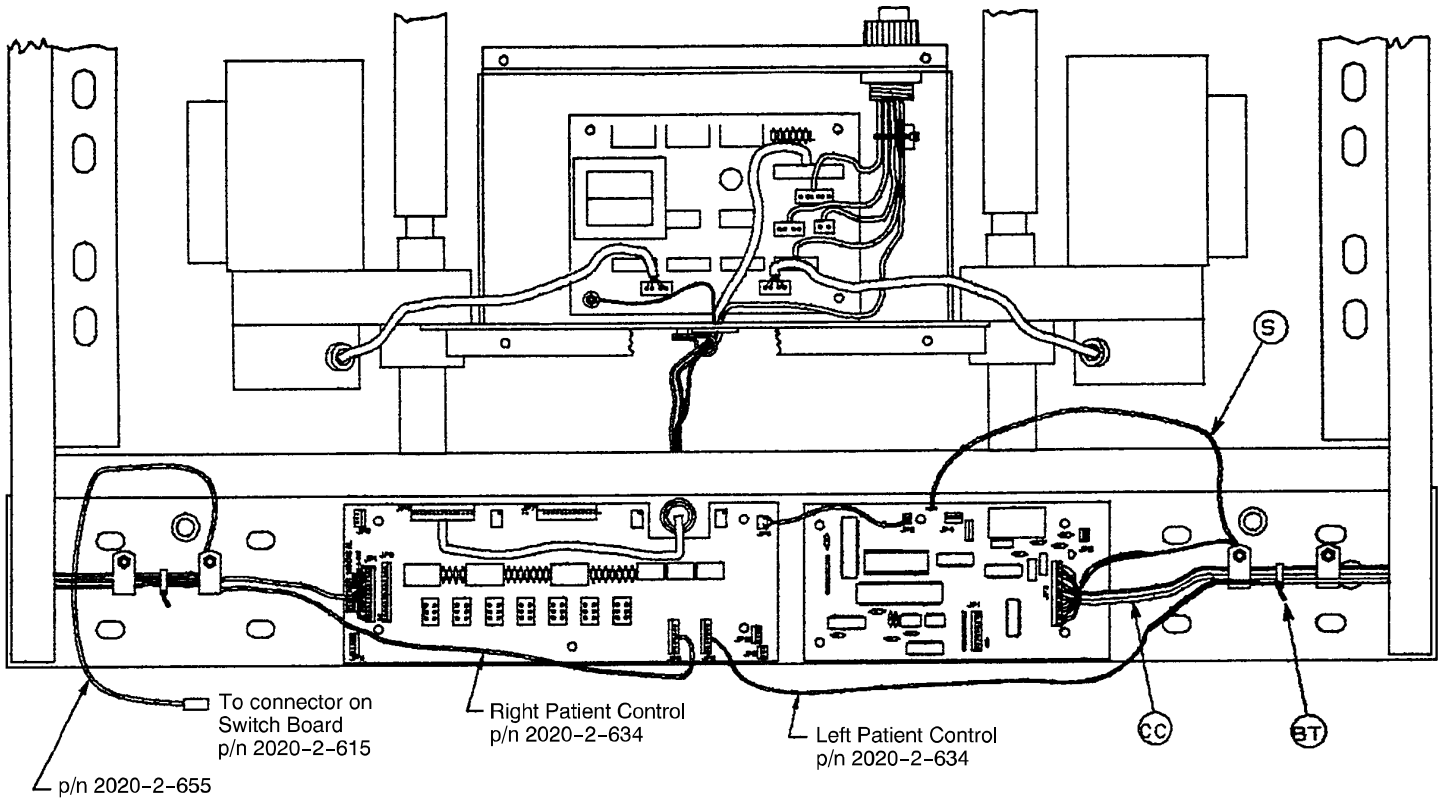
Litter Assembly, Scale Option

Assembly part number 2020-59-510
(reference only)

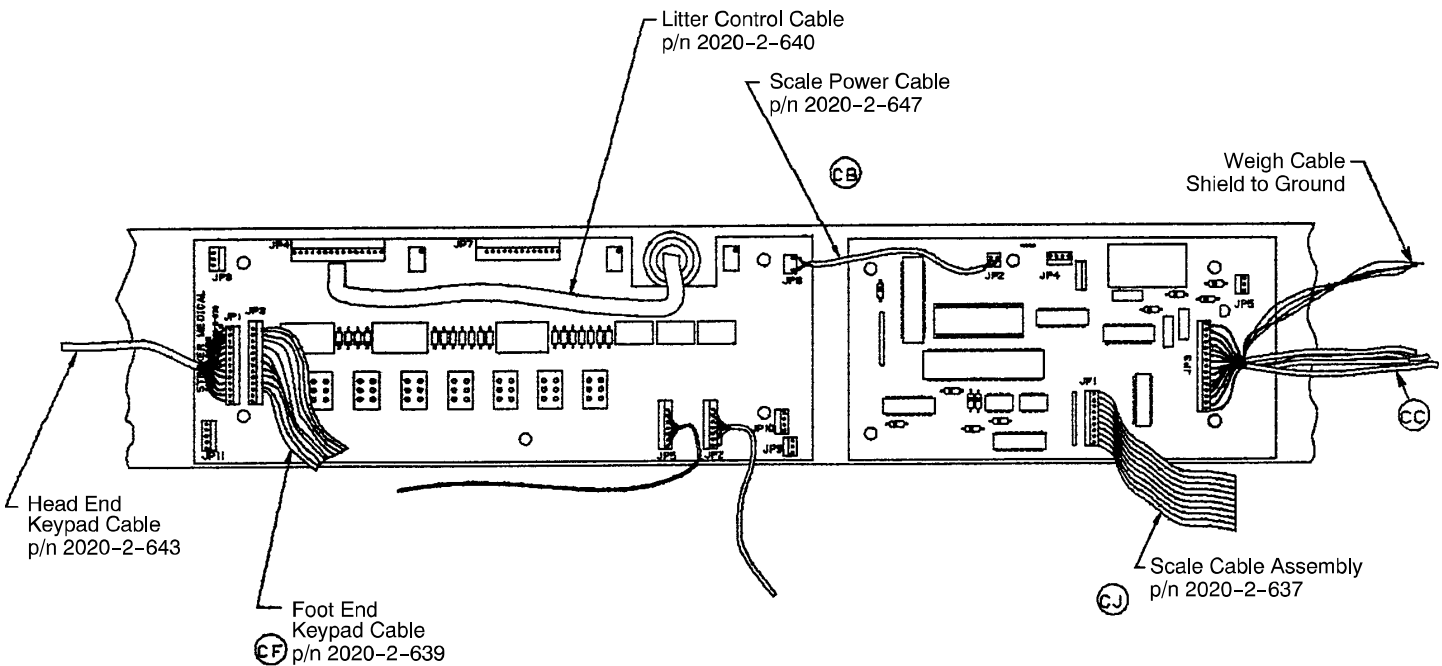


FRAME ASSEMBLY, ELECTRICAL

Litter Assembly, Scale Option



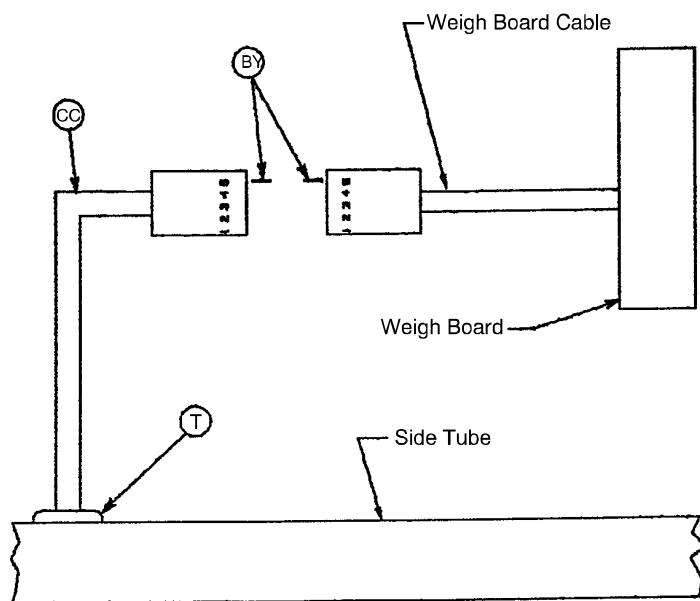
CABLE ROUTING DETAIL



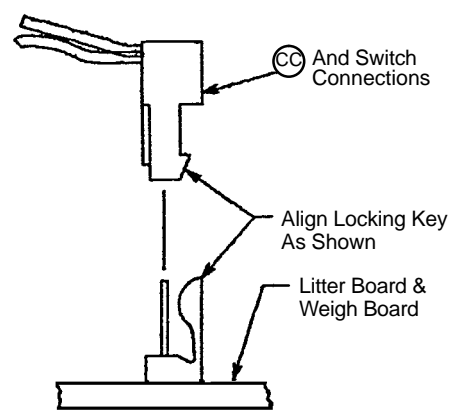
LITTER CONTROL BOARD/WEIGH BOARD CONNECTIONS

Litter Assembly, Scale Option

Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	(page 71)	Frame End Ass'y	1	AP	2020-1-554	Wire Guide	2
B	2020-15-512	Bumper, Coated	2	AT	16-11	Fiberlock Hex Nut	4
C	2020-15-515	Frame End	1	AX	34-196	Male Connector	1
D	16-15	Fiberlock Nut	4	AY	13-17	Ext. Tooth Lock Washer	3
E	52-91	Threaded Spacer	4	BA	2020-1-139	Instruction Label, Middle	1
F	2020-16-553	Crosstube Ass'y, Foot	1	BB	4-12	Soc. Hd. Cap Screw	1
H	2020-1-519	Crossbar, Head End	1	BC	2020-1-572	Instruction Tab, Top	1
J	2020-57-511	Scale Computer Board	1	BD	2020-1-573	Instruction Tab, Middle	1
K	958-1-576	Roller & Sleeve Ass'y	2	BE	2020-1-574	Instruction Tab, Bottom	1
L	2020-1-521	Roller Shaft	2	BF	52-89	Nylon Screw	4
M	958-1-595	Sleeve, Head End	2	BH	4-101	Hex Soc. Hd. Screw	4
N	16-61	Lock Nut	8	BK	2020-1-140	Instruction Label, Bottom	1
P	11-280	Flat Washer	4	BL	15-7	Jam Nut	2
R	1-80	Flat Hd. Mach. Screw	8	BM	1-71	Flat Hd. Soc. Screw	4
S	2020-59-518	Spacer	8	BN	14-20	Nylon Washer	4
T	30-17	Rubber Grommet	3	BR	2020-1-138	Instruction Label, Top	1
W	12-20	Lock Washer	6	BT	38-111	Cable Tie	15
X	946-1-64	Fowler Label	1	BX	52-68	Cable Clamp	3
Y	4-124	Soc. Hd. Cap Screw	2	BY	59-42	Key	8
Z	946-1-65	Gatch Label	1	BZ	988-1-562	I.V. Storage Label	1
AA	2020-59-520	Load Cell Assembly	4	CB	2020-2-647	Scale Power Cable	1
AB	52-109	Spacer	4	CC	958-59-511	Weigh System Cable	1
AC	4-109	Soc. Hd. Cap Screw	4	CD	29-7	Dual Lock	1
AD	16-40	Flexlock Nut	8	CE	29-9	Dual Lock	1
AE	3-98	Soc. Hd. Cap Screw	4	CF	2020-2-639	Ft. End Keypad Cable	1
AF	2020-16-552	Actuator Cover	1	CH	988-2-708	Caution Label	1
AJ	4-21	Soc. Hd. Cap Screw	4	CJ	2020-2-637	Scale Cable Ass'y	1
AK	23-65	Self-Tapping Screw	4	CK	23-25	Self-Tapping Screw	1
AL	4-118	Soc. Hd. Cap Screw	4	CL	3-97	Hex Hd. Cap Screw	4
AM	52-45	DU Bushing	2	CP	2020-59-411	Cover	4
AN	(page 50)	Frame Ass'y, Electrical	1				



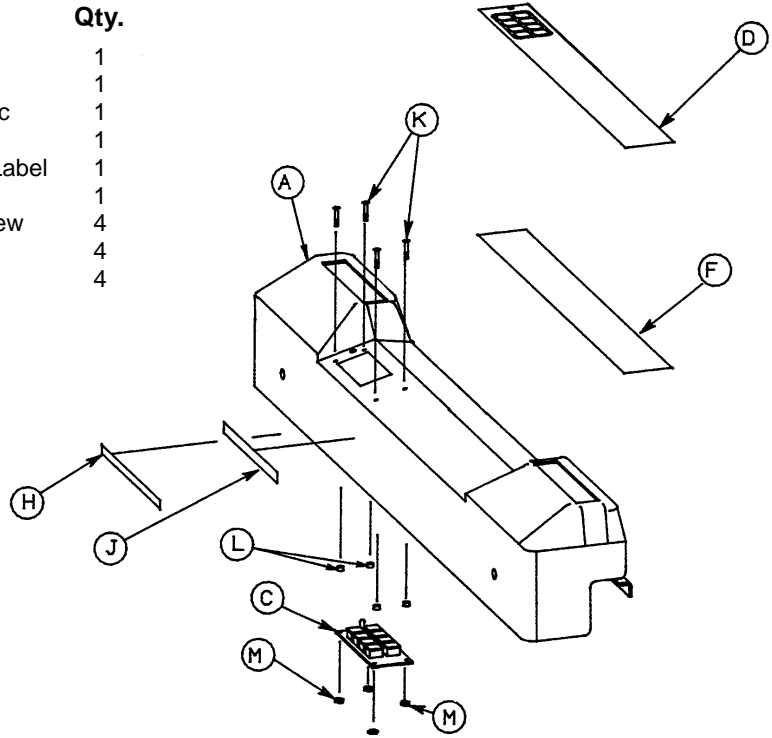
WEIGH BOARD TO WEIGH CABLE CONNECTIONS



CABLE CONNECTIONS

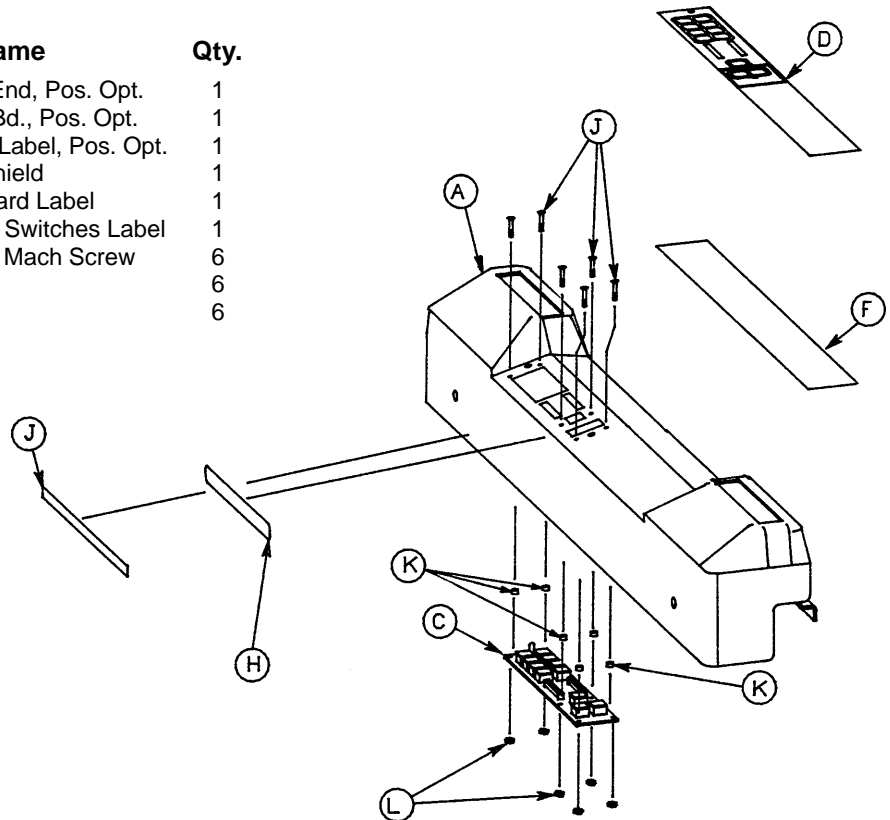
2020-49-550 Basic Frame End Assembly

Item	Part No.	Part Name	Qty.
A	2020-15-517	Frame End, Basic	1
C	2020-2-675	Switch Bd., Basic	1
D	2020-15-530	Ft. Ctrl. Label, Basic	1
F	2020-1-566	Clear Shield	1
H	2020-1-192	Lockout Switches Label	1
J	2020-1-144	O2 Hazard Label	1
K	1-70	Flat Hd. Mach. Screw	4
L	52-90	Spacer	4
M	16-51	Nut	4

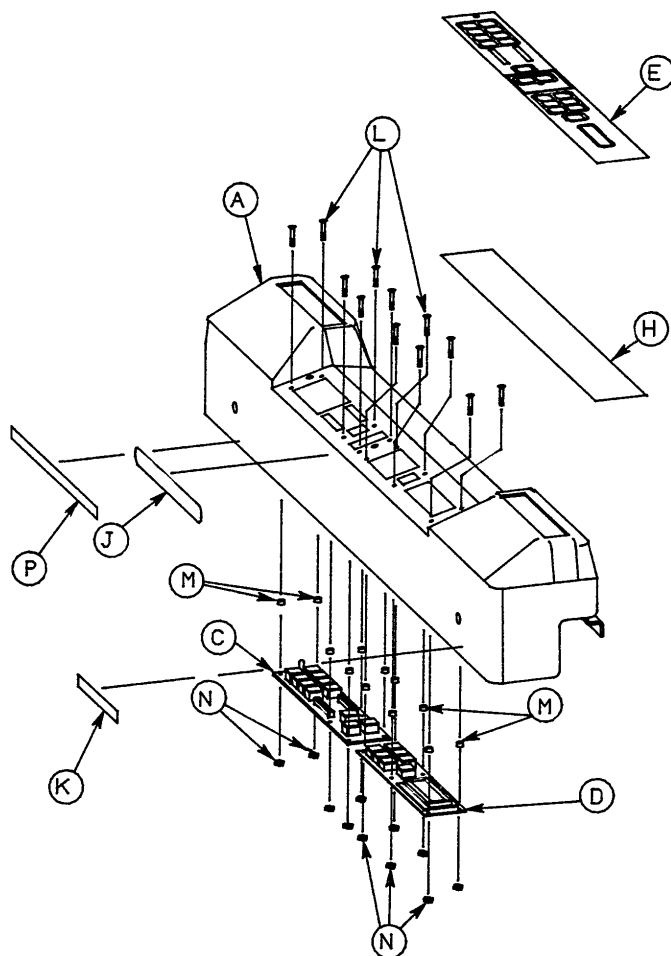


2020-50-550 Frame End Assembly, Position Option

Item	Part No.	Part Name	Qty.
A	2020-15-523	Frame End, Pos. Opt.	1
C	2020-2-615	Switch Bd., Pos. Opt.	1
D	2020-15-528	Ft. Ctrl. Label, Pos. Opt.	1
F	2020-1-566	Clear Shield	1
H	2020-1-144	O2 Hazard Label	1
J	2020-1-192	Lockout Switches Label	1
K	1-70	Flat Hd. Mach Screw	6
L	52-90	Spacer	6
M	16-51	Nut	6

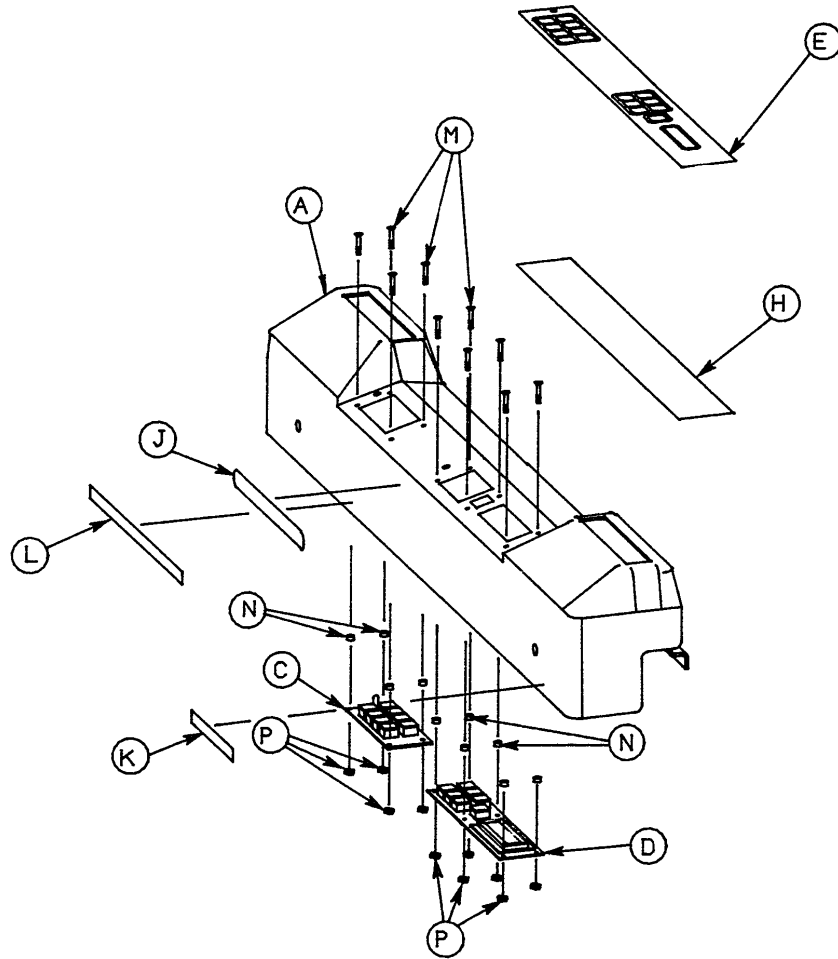


2020-52-550 Frame End Assembly, All Options



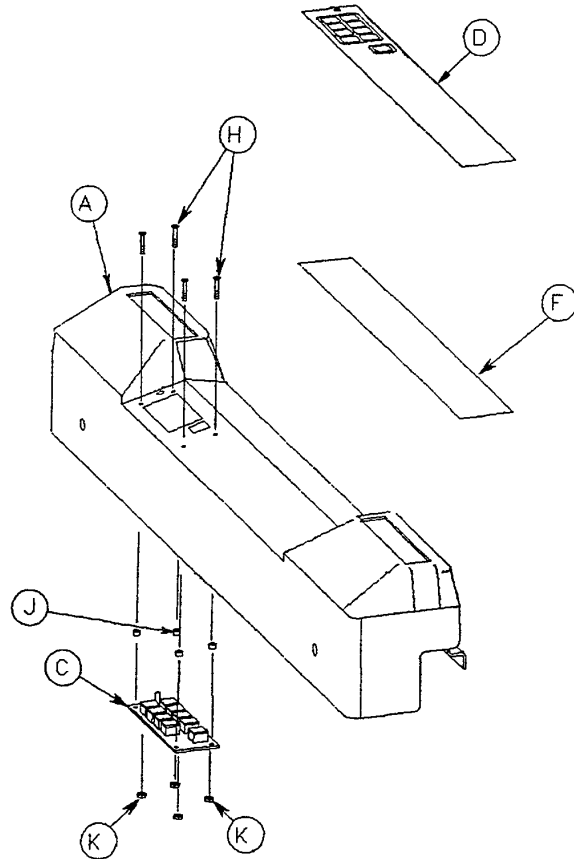
Item	Part No.	Part Name	Qty.
A	2020-15-525	Frame End, All Options	1
C	2020-2-615	Control Board, Position Option	1
D	2020-57-512	LCD/Display Keypad Board	1
E	2020-15-527	Foot Control Label, All Options	1
H	2020-1-566	Clear Shield	1
J	2020-1-144	O2 Hazard Label	1
K	2020-1-146	Scale Label	1
L	1-70	Flat Hd. Mach. Screw	12
M	52-90	Spacer	12
N	16-51	Nut	12
P	2020-1-192	Lockout Switches Label	1

2020-59-550 Frame End Assembly, Scale Option



Item	Part No.	Part Name	Qty.
A	2020-15-519	Frame End, Basic	1
C	2020-2-675	Switch Board	1
D	2020-57-512	LCD/Display Keypad Board	1
E	2020-15-529	Ft. Ctrl. Label, Scale Option	1
H	2020-1-566	Clear Shield	1
J	2020-1-144	O2 Hazard Label	1
K	2020-1-146	Scale Label	1
L	2020-1-192	Lockout Switch Label	1
M	1-70	Flat Hd. Mach. Screw	10
N	52-90	Spacer	10
P	16-51	Nut	10

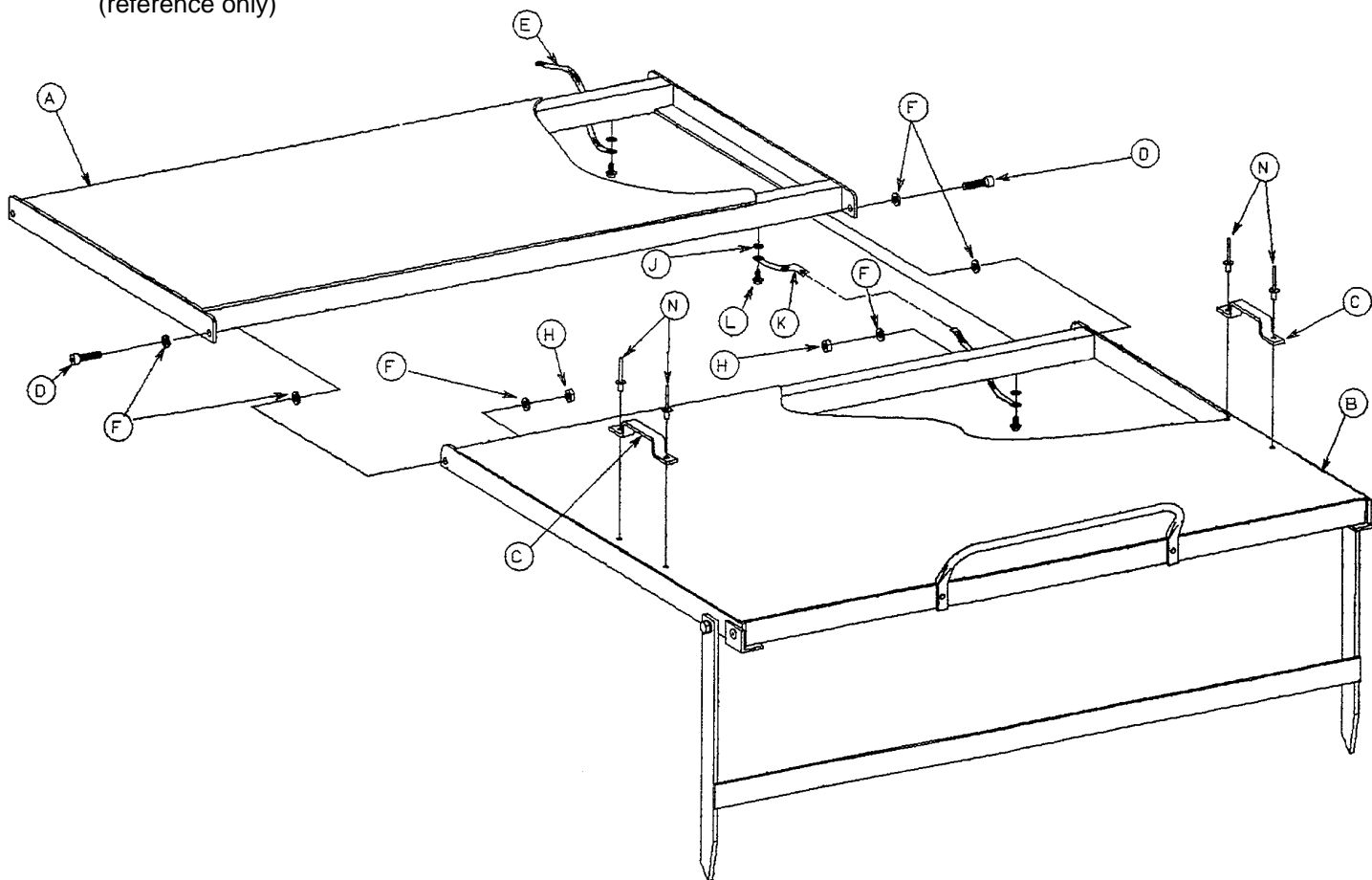
2020-51-550 Frame End Assembly, Procedural (Head End)



Item	Part No.	Part Name	Qty.
A	2020-15-521	Frame End, Procedural	1
C	2020-2-617	Procedural Keyboard	1
D	2020-2-624	Head End Procedural Label	1
F	2020-1-566	Clear Shield	1
H	1-70	Flat Hd. Mach. Screw	4
J	52-90	Spacer	4
K	16-51	Nut	4

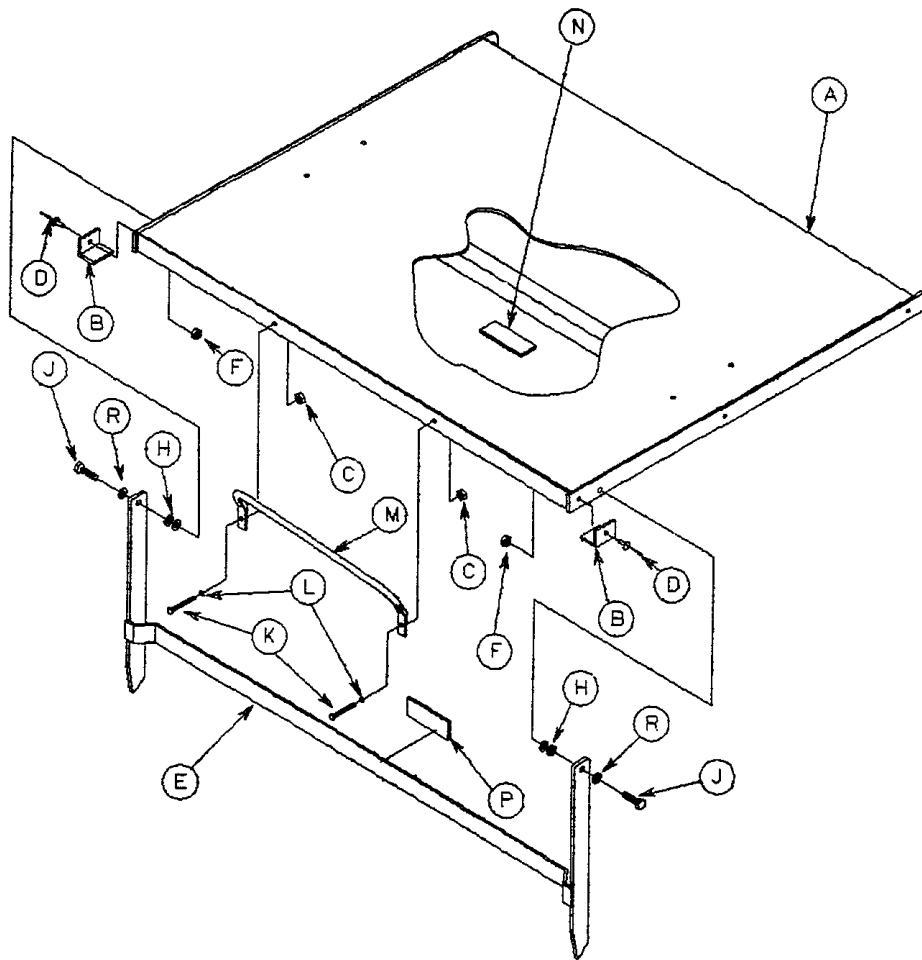
Knee Gatch Assembly

Assembly part number 2020-34-750
(reference only)



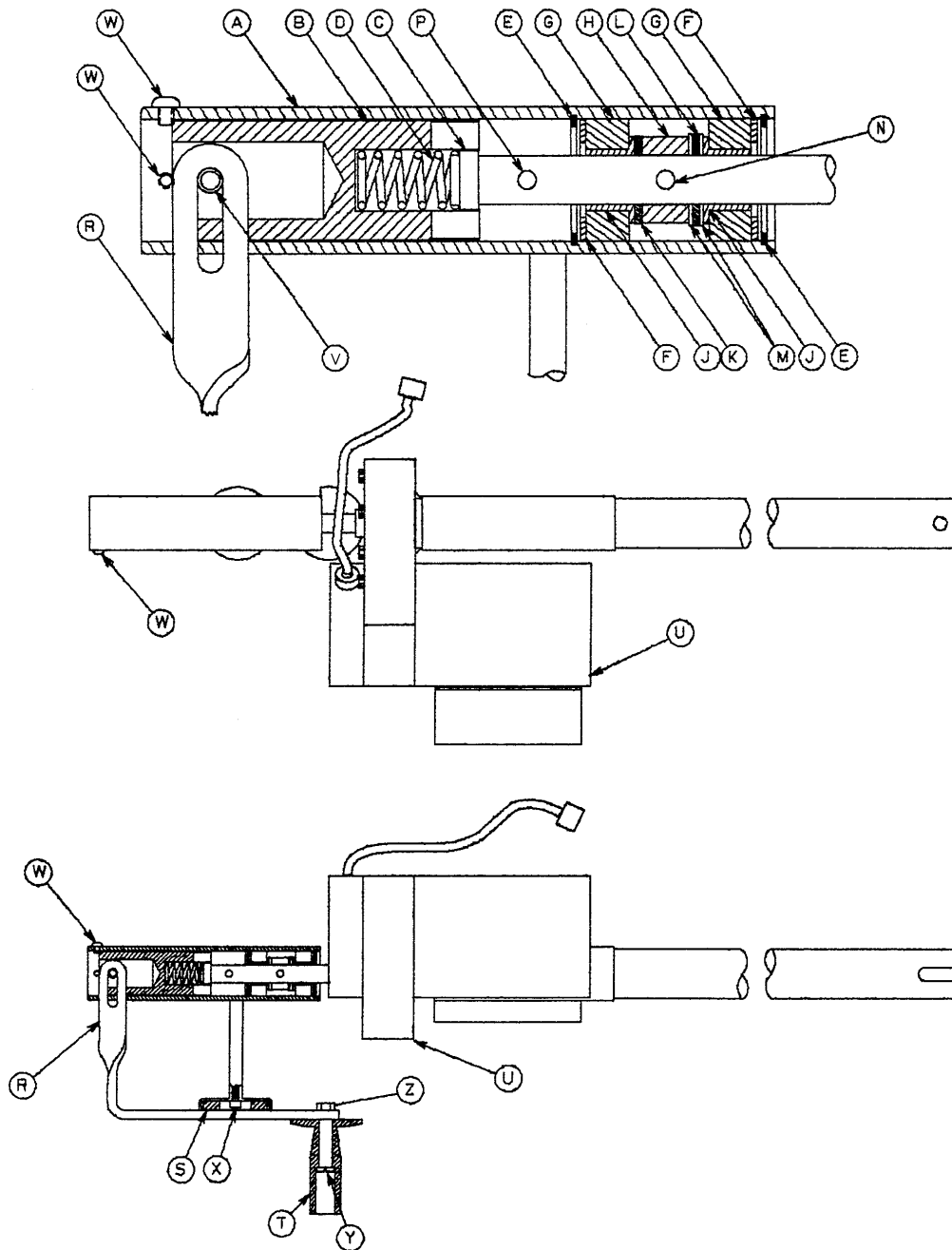
Item	Part No.	Part Name	Qty.
A	2020-34-753	Thigh Section Assembly	1
B	(page 74)	Calf Section Assembly	1
C	393-53-20	Strap Anchor	2
D	4-51	Soc. Hd. Cap Screw	2
E	460-4-32	Grounding Cable	1
F	14-3	Flat Washer	6
H	16-11	Fiberlock Nut	2
J	13-10	Ext. Tooth Lock Washer	3
K	988-2-676	Grounding Cable	1
L	23-25	Self Tapping Mach. Screw	3
N	25-79	Pop Rivet	4

2020-34-760 Calf Section Assembly



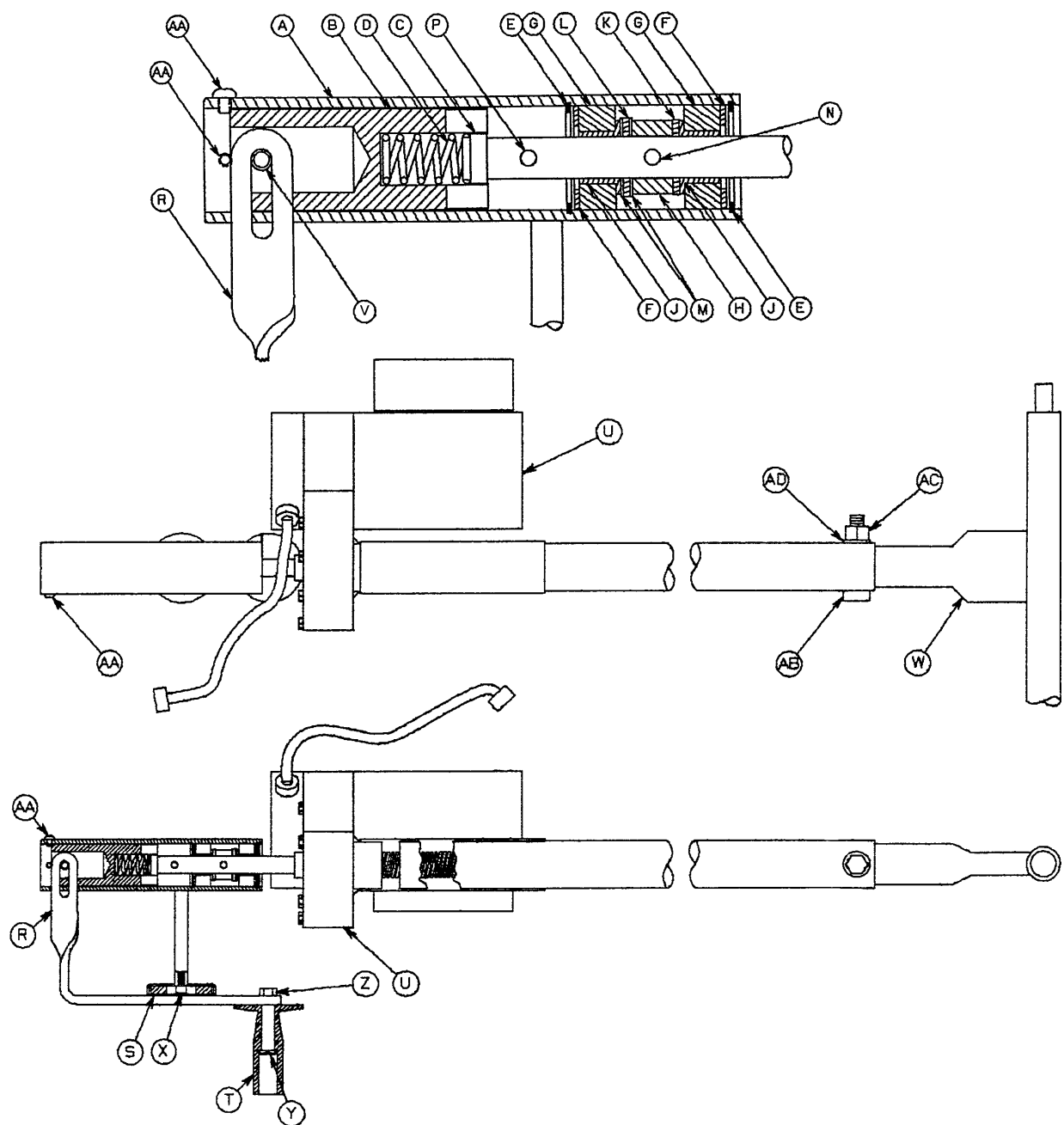
Item	Part No.	Part Name	Qty.
A	2020-34-755	Calf Section Assembly	1
B	2020-34-758	Calf Section Rest	2
C	16-3	Fiberlock Nut	2
D	25-77	Pop Rivet	2
E	2020-34-762	Gatch Stand Assembly	1
F	16-16	Fiberlock Nut	2
H	14-2	Nylon Washer	4
J	3-3	Hex Hd. Cap Screw	2
K	2-36	Rd. Hd. Machine Screw	2
L	11-1	Flat Washer	2
M	938-1-69	Knee Gatch Handle	1
N	29-7	Dual Lock	1
P	29-9	Dual Lock	1
R	11-2	Flat Washer	2

2020-34-775 Knee Gatch Crankscrew Assembly



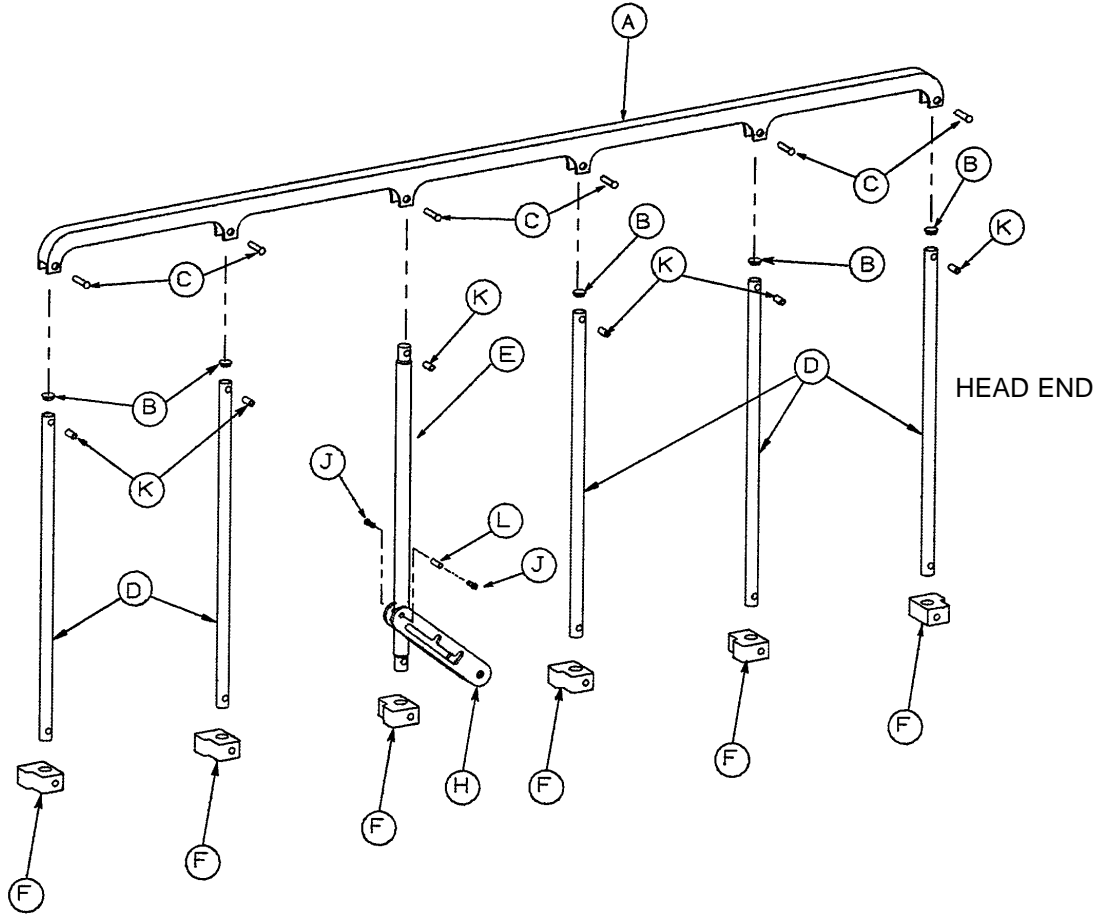
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	2020-1-528	Crank Coupler Hsg. Ass'y	1	N	26-149	Roll Pin	1
B	2020-1-526	Crank Coupler	1	P	26-179	Spiral Pin	1
C	2020-1-524	Crank Spring Button	1	R	2020-1-531	Crank Handle	1
D	38-209	Compression Spring	1	S	958-34-717	Magnet	1
E	28-88	Snap Ring	2	T	2020-16-521	Crank Knob	1
F	81-174	Washer	2	U	2020-34-776	Hubble Linear Actuator	1
G	2020-1-529	Nylon Spacer	2	V	26-168	Spiral Pin	1
H	2020-1-532	Bearing Collar	1	W	4-148	Soc. But. Hd. Cap Screw	2
J	81-213	Shoulder Bushing	2	X	4-7	Soc. Hd. Cap Screw	1
K	11-45	Nylon Washer	1	Y	378-24-29	Shoulder Bolt	1
L	81-212	Thrust Bearing	1	Z	16-6	Keyp Nut	1
M	14-44	Steel Thrust Washer	2				

2020-31-675 Fowler Crankscrew Assembly



Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	2020-1-528	Crk. Coupler Hsg. Ass'y	1	R	2020-1-531	Crank Handle	1
B	2020-1-526	Crank Coupler	1	S	958-34-717	Magnet	1
C	2020-1-524	Crank Spring Button	1	T	2020-16-521	Crank Knob	1
D	38-209	Compression Spring	1	U	2020-31-676	Linear Actuator	1
E	28-88	Snap Ring	2	V	26-168	Spiral Pin	1
F	81-174	Washer	2	W	2020-31-630	Fowler Ext. Ass'y	1
G	2020-1-529	Nylon Spacer	2	X	4-7	Soc. Hd. Cap Screw	1
H	2020-1-532	Bearing Collar	1	Y	378-24-29	Shoulder Bolt	1
J	81-213	Bronze Should. Bushing	2	Z	16-6	Keyp Nut	1
K	11-45	Nylon Washer	1	AA	4-148	But. Soc. Hd. Cap Scr.	2
L	81-212	Thrust Bearing	1	AB	4-86	Soc. Hd. Cap Screw	1
M	14-44	Steel Thrust Washer	2	AC	16-12	Lock Nut	1
N	26-149	Roll Pin	1	AD	11-57	Flat Washer	1
P	26-179	Spiral Pin	1				

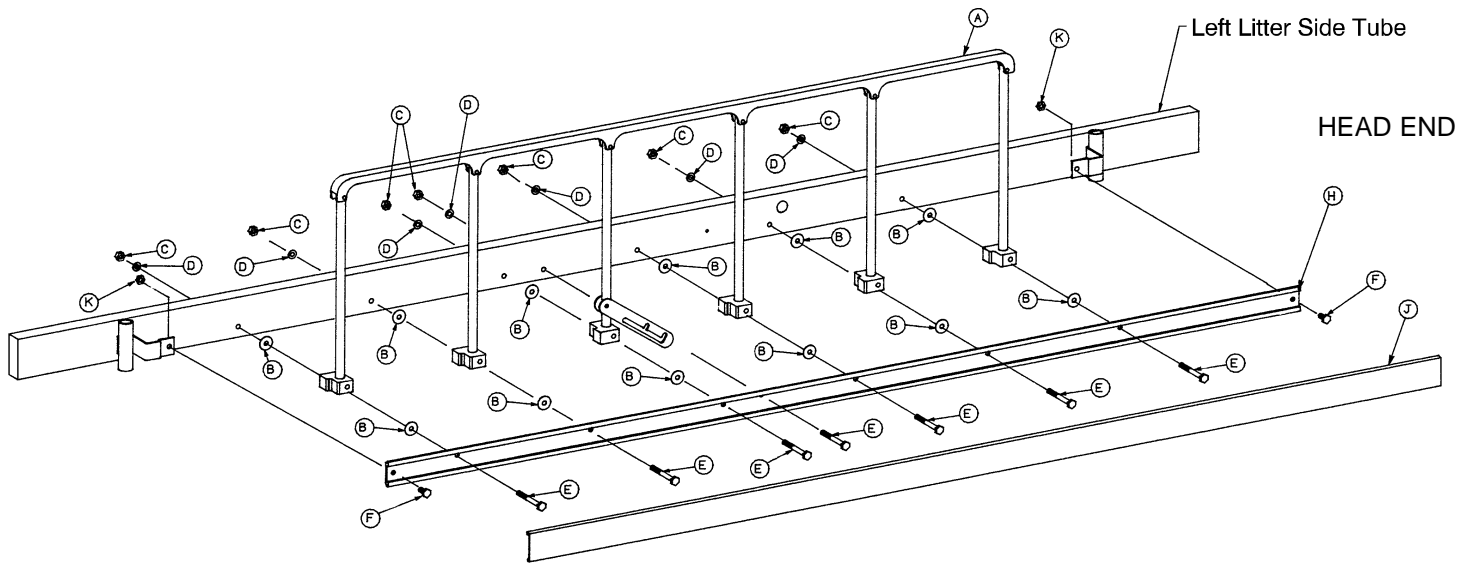
2020-26-815 Siderail Assembly, Fold-to-Head



Item	Part No.	Part Name	Qty.
A	938-1-188	Top Rail	1
B	37-42	Round Hole Plug	5
C	25-61	Semi-Tubular Rivet	6
D	958-26-17	Upright	5
E	2020-28-815	Lock Spindle	1
F	2020-90-865	Pivot	6
H	946-26-29	Siderail Latch Assembly	1
J	1-22	Flat Hd. Mach. Screw	2
K	2020-26-816	Spacer	6
L	2020-26-817	Pivot Bar	1

Siderail and Bumper Assembly, Left, Fold-to-Head

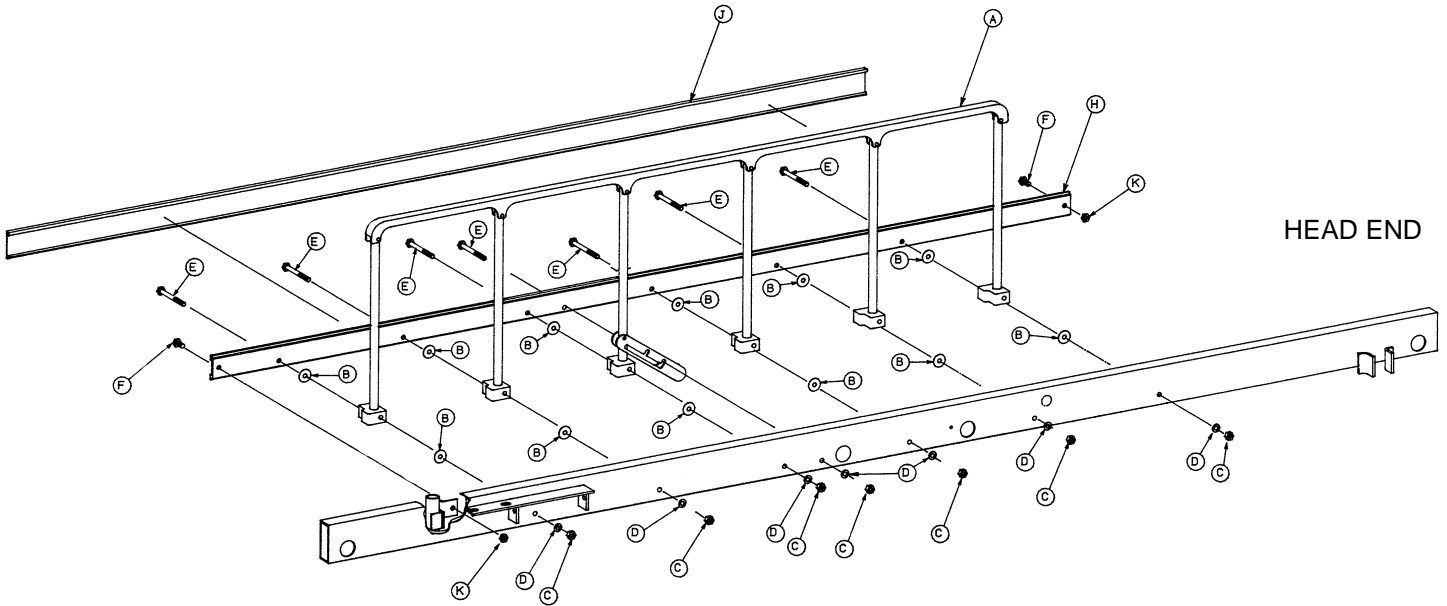
Assembly part number 2020-26-810 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 77)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	7
D	11-3	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-821	Bumper, Left	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	958-1-529	Midsection Skin (not shown)	1

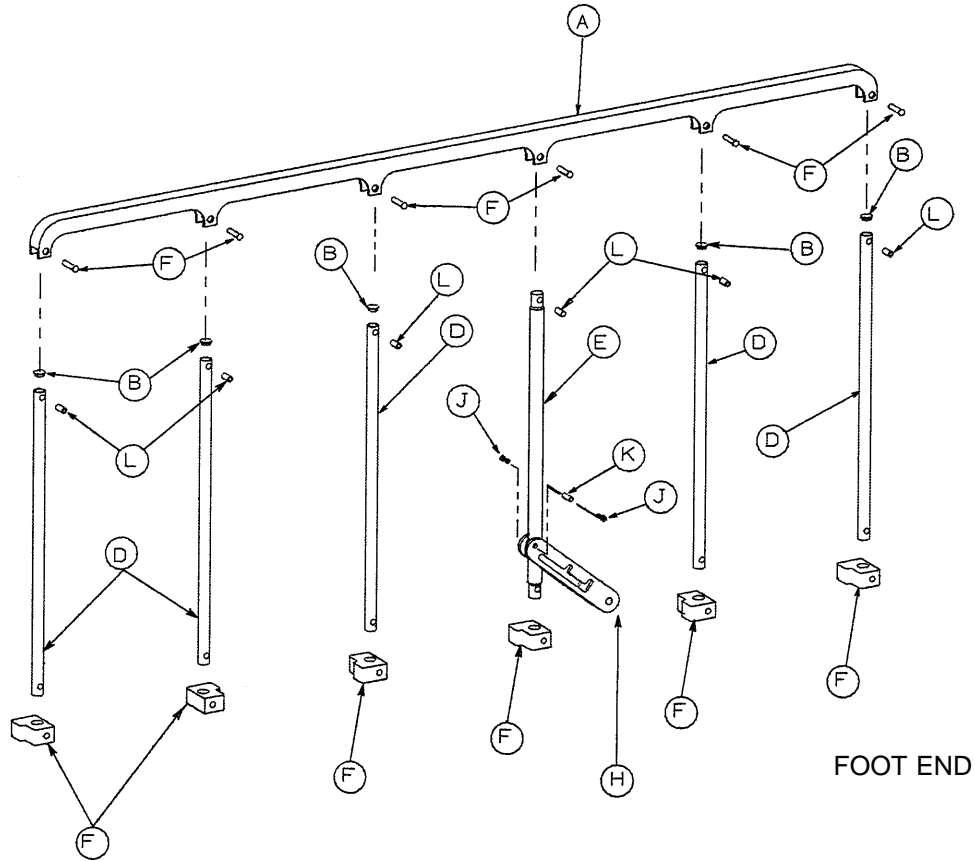
Siderail and Bumper Assembly, Right, Fold-to-Head

Assembly part number 2020-26-811 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 77)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	7
D	11-3	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-820	Bumper, Right	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	958-1-529	Midsection Skin (not shown)	1

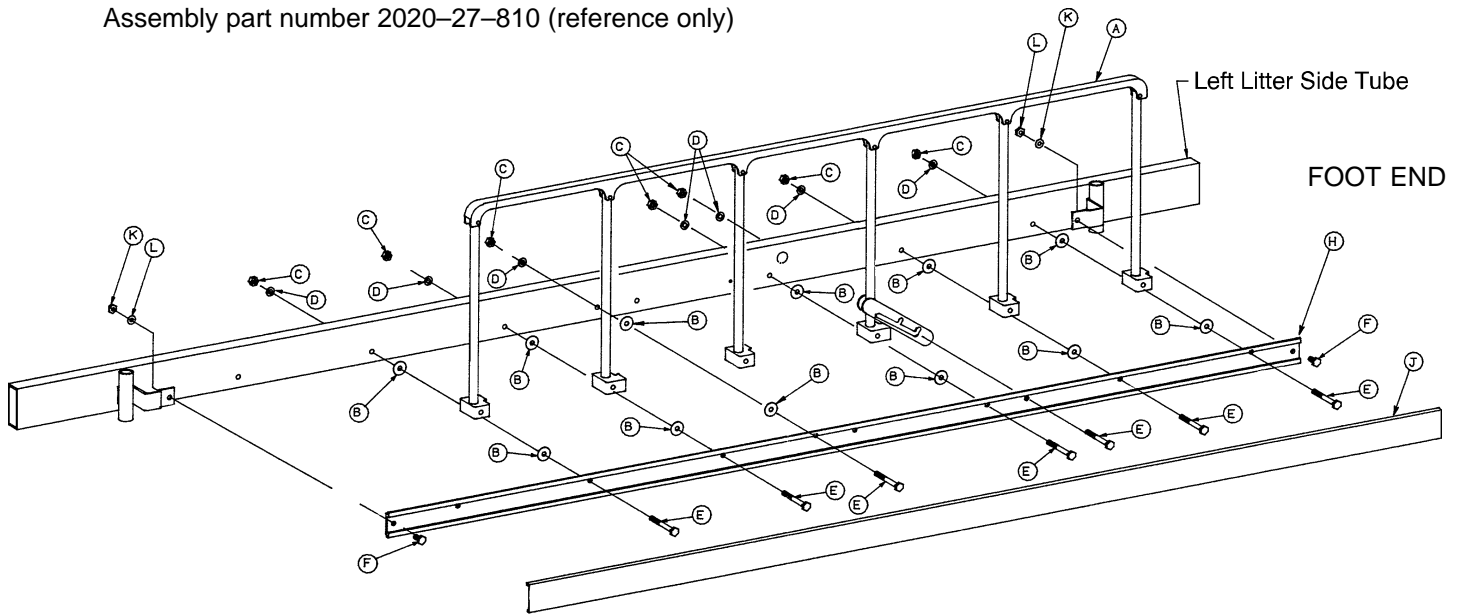
2020-27-812 & 813 Siderail Ass'y, Lt. & Rt., Fold Foot



Item	Part No.	Part Name	Qty.
A	938-1-188	Top Rail	1
B	37-42	Round Hole Plug	5
C	25-61	Semi-Tubular Rivet	6
D	958-26-17	Upright	5
E	2020-28-815	Lock Spindle	1
F	2020-90-865	Pivot	6
H	946-26-29	Siderail Latch Assembly	1
J	1-22	Flat Hd. Mach. Screw	2
K	2020-26-817	Pivot Sleeve	1
L	2020-26-816	Spacer	6

Siderail and Bumper Assembly, Left, Fold-to-Foot

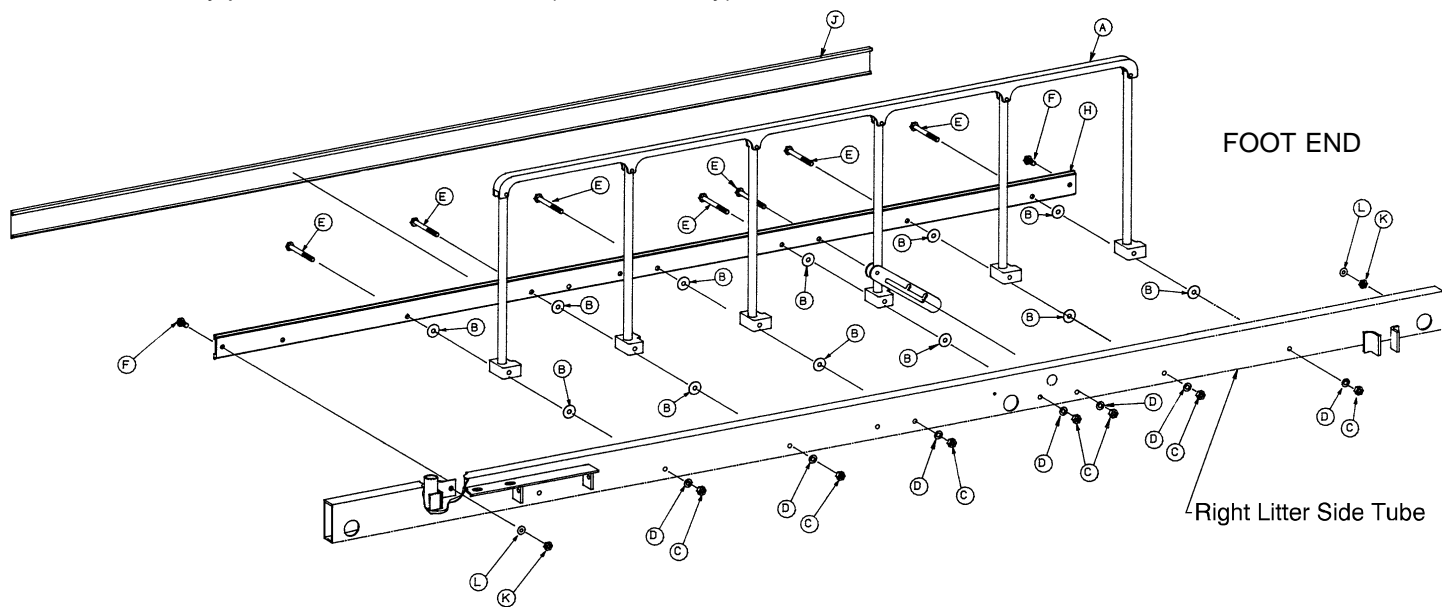
Assembly part number 2020-27-810 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 80)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flex Lock Nut	7
D	11-3	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-821	Bumper, Left	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	11-2	Flat Washer	2
M	958-1-529	Midsection Skin (not shown)	1

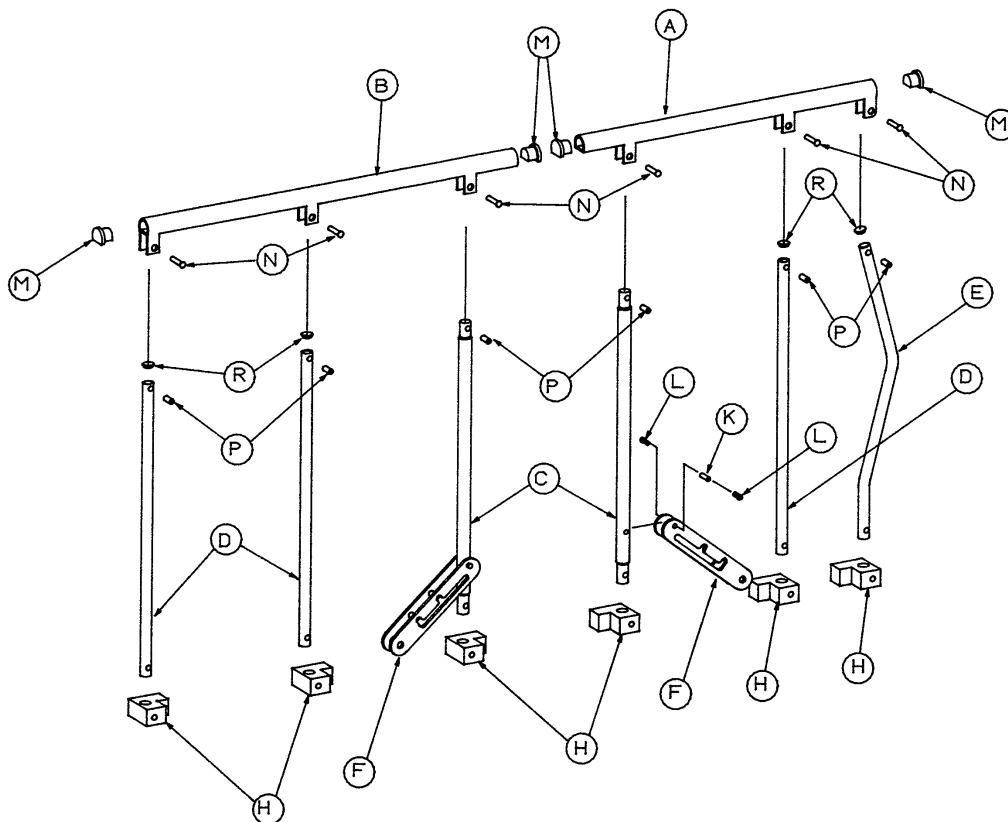
Siderail and Bumper Assembly, Right, Fold-to-Foot

Assembly part number 2020-27-811 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 80)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	7
D	11-3	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-820	Bumper, Right	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	11-2	Flat Washer	2
M	958-1-529	Midsection Skin (not shown)	1

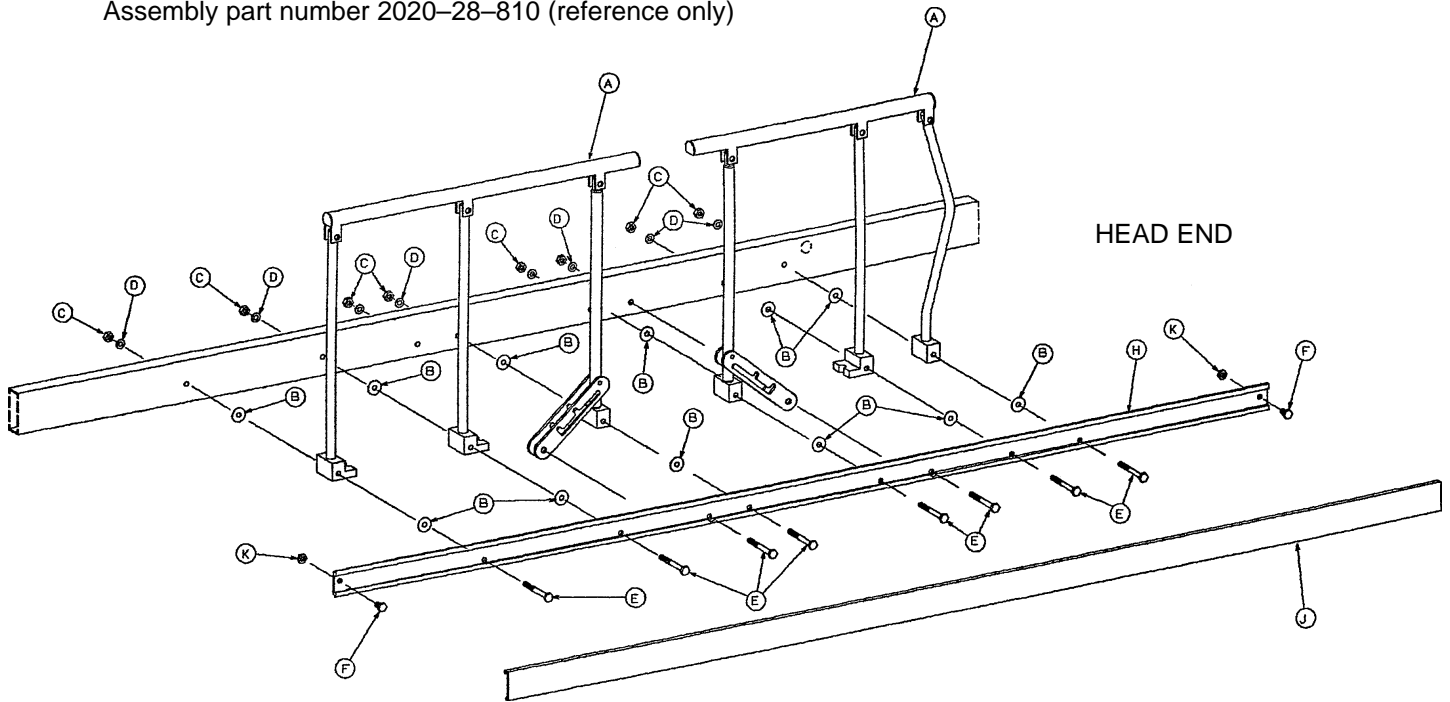
2020-28-812 Split Folddown Siderail Assembly



Item	Part No.	Part Name	Qty.
A	2020-28-816	Top Rail, Front	1
B	2020-28-825	Top Rail, Rear	1
C	2020-28-815	Lock Spindle	2
D	958-26-17	Upright	3
E	2020-28-818	Front Spindle	1
F	946-26-29	Siderail Lock Assembly	2
H	2020-90-865	Pivot	6
K	2020-26-817	Pivot Bar	2
L	1-22	Flat Hd. Mach. Screw	4
M	37-43	Siderail Endplug	4
N	25-61	Semi-Tubular Rivet	6
P	2020-26-816	Spacer	6
R	37-42	Plug	4

Siderail and Bumper Assembly, Split, Left

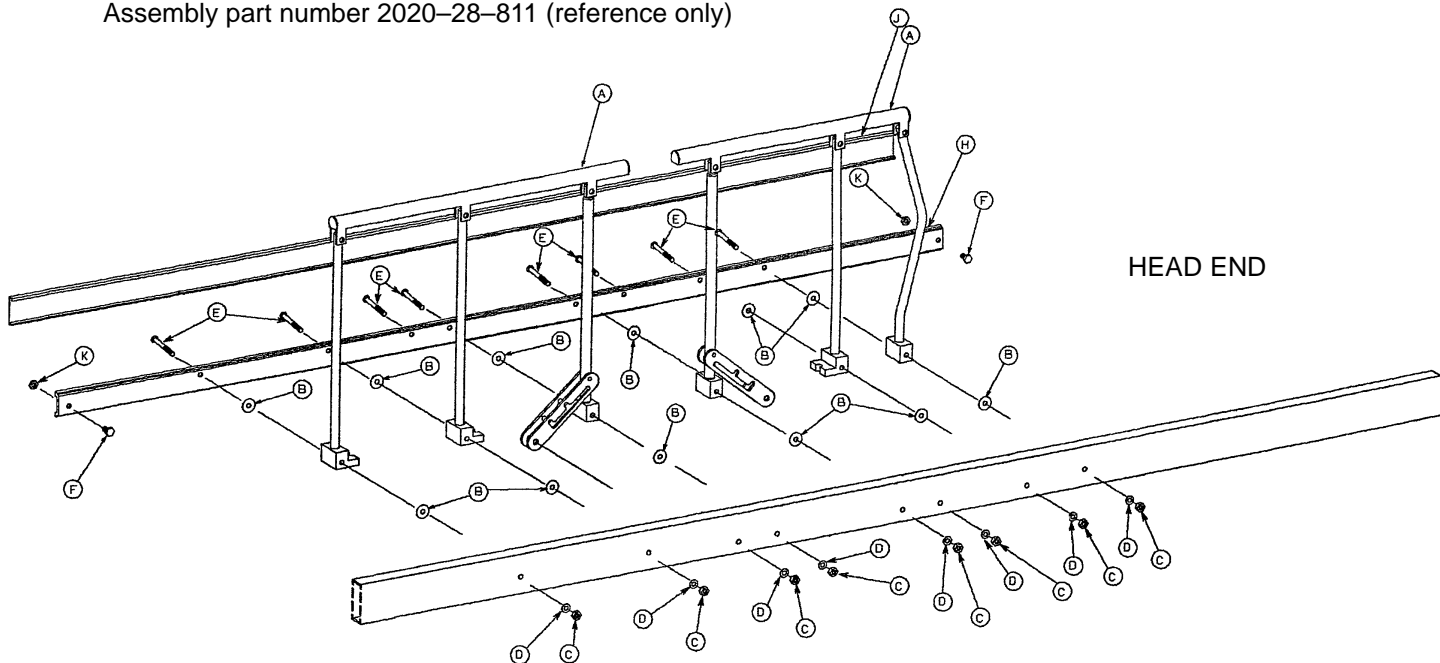
Assembly part number 2020-28-810 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 83)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	8
D	11-3	Washer	8
E	3-88	Hex Hd. Cap Screw	8
F	3-1	Hex Hd. Cap Screw	2
H	958-26-821	Bumper, Left	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	2020-1-599	Midsection Skin (not shown)	1

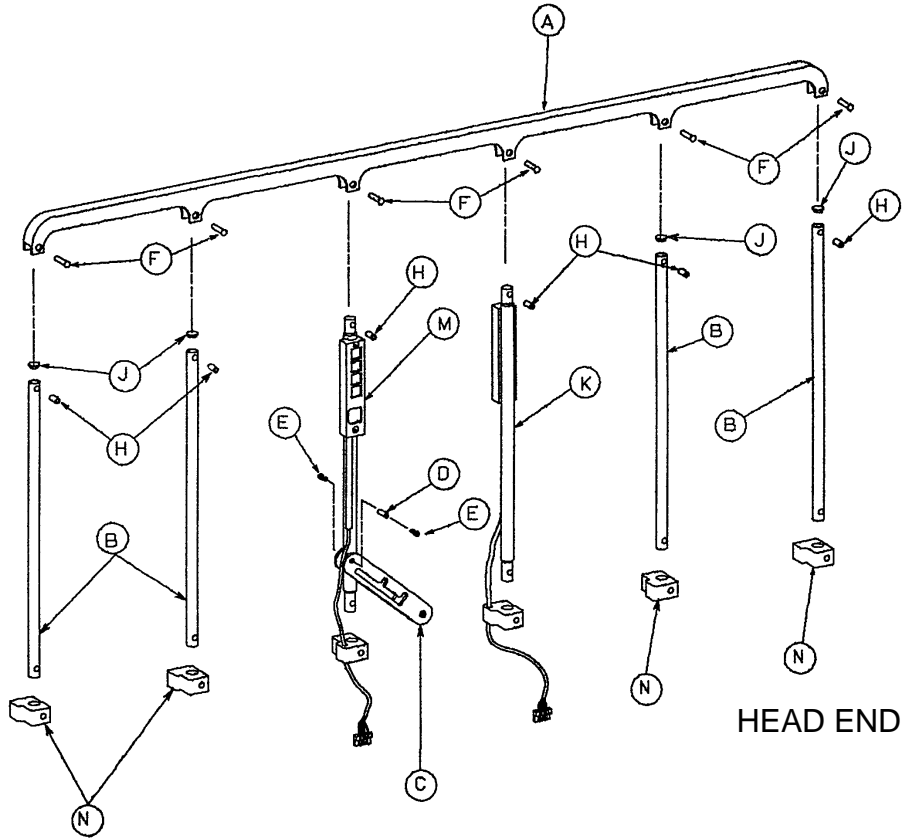
Siderail and Bumper Assembly, Split, Right

Assembly part number 2020-28-811 (reference only)



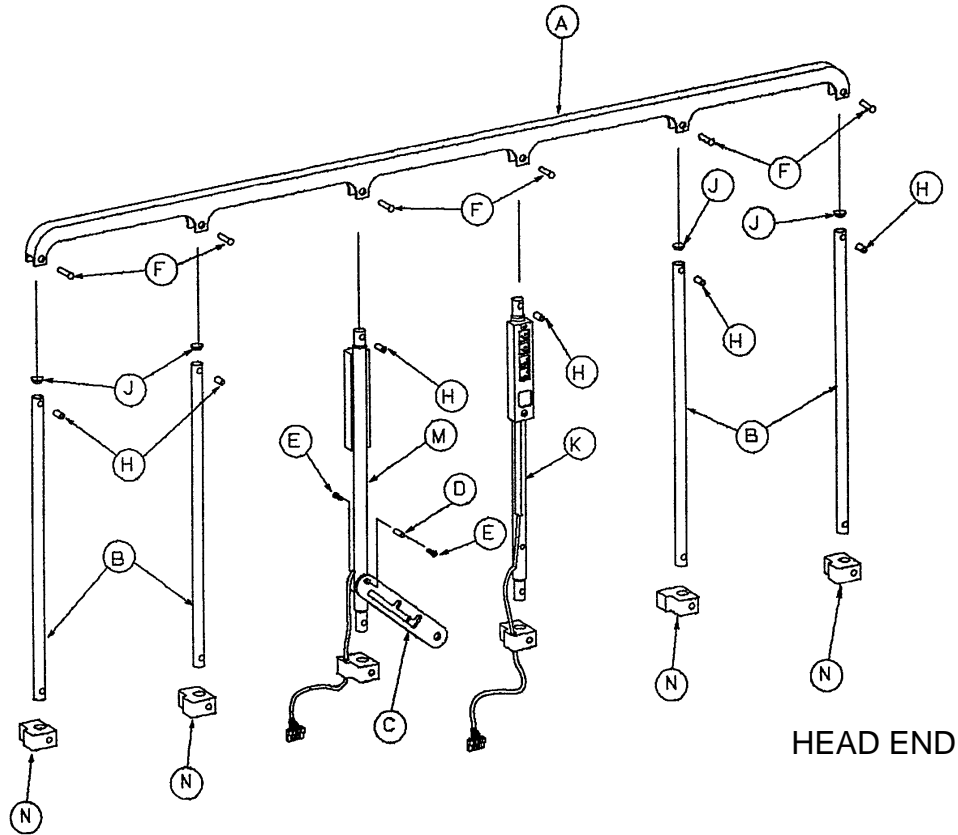
Item	Part No.	Part Name	Qty.
A	(page 83)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	8
D	11-3	Washer	8
E	3-88	Hex Hd. Cap Screw	8
F	3-1	Hex Hd. Cap Screw	2
H	958-26-820	Bumper, Right	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	2020-1-599	Midsection Skin (not shown)	1

2020-86-812 Siderail Assembly, Left, Fold Head with In-Rail Control Option



Item	Part No.	Part Name	Qty.
A	938-1-188	Top Rail	1
B	958-26-17	Upright	4
C	946-26-29	Siderail Lock Assembly	1
D	2020-26-817	Pivot Bar	1
E	4-49	Flat Hd. Machine Screw	2
F	25-61	Semi-Tubular Rivet	6
H	2020-26-816	Spacer	6
J	37-42	Plug	4
K	(page 98)	Gatch/Fow. Ctrl. Spind. Ass'y	1
M	(page 100)	Lift/Trend. Ctrl. Spind. Ass'y	1
N	2020-90-865	Pivot, Standard	4

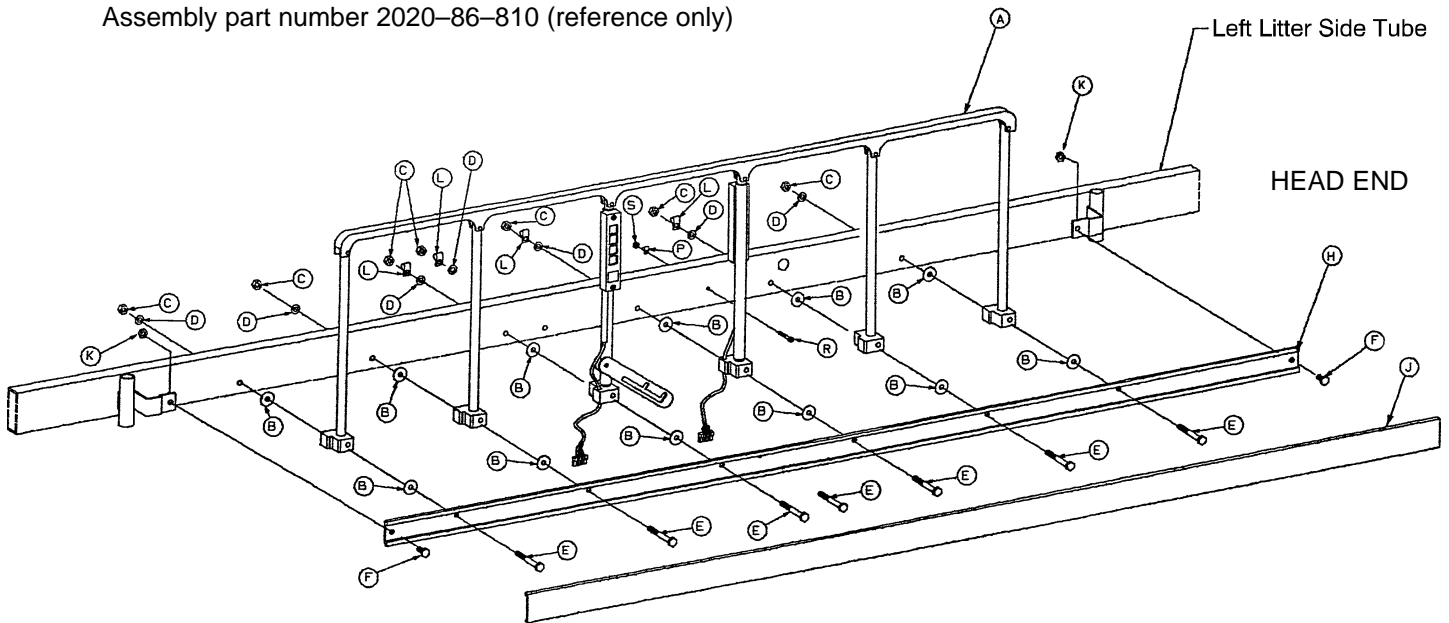
2020-86-813 Siderail Assembly, Right, Fold Head with In-Rail Control Option



Item	Part No.	Part Name	Qty.
A	938-1-188	Top Rail	1
B	958-26-17	Upright	4
C	946-26-29	Siderail Lock Assembly	1
D	2020-26-817	Pivot Bar	1
E	4-49	Flat Hd. Machine Screw	2
F	25-61	Semi-Tubular Rivet	6
H	2020-26-816	Spacer	6
J	37-42	Plug	4
K	(page 98)	Gatch/Fow. Ctrl. Spind. Ass'y	1
M	(page 100)	Lift/Trend. Ctrl. Spind. Ass'y	1
N	2020-90-865	Pivot, Standard	4

Siderail and Bumper Assembly, Left, Fold-to-Head with In-Rail Control Option

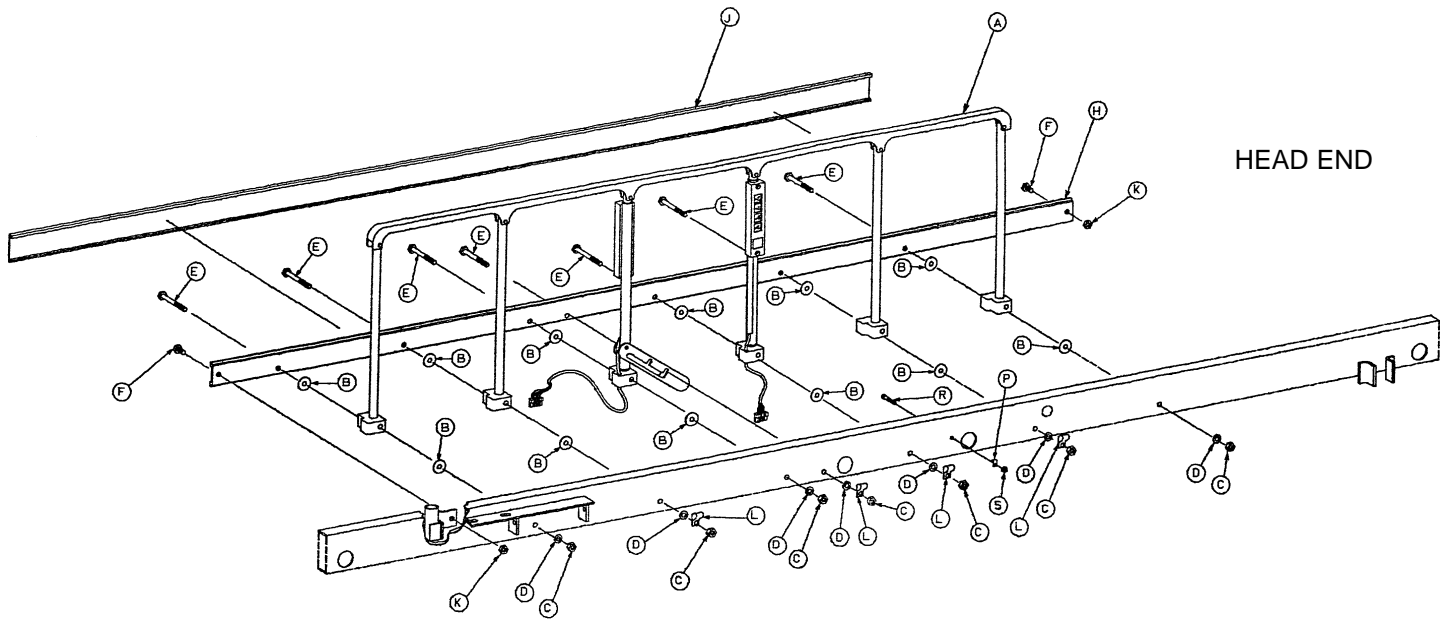
Assembly part number 2020-86-810 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 86)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	7
D	14-17	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-821	Bumper, Left	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	52-110	Wire Clamp	4
M	2020-90-813	Lift/Trend. In-Rail Cable	1
P	34-22	Clamp	1
R	4-85	Soc. Hd. Cap Screw	1
S	16-3	Fiberlock Nut	1
T	958-1-529	Midsection Skin (not shown)	1

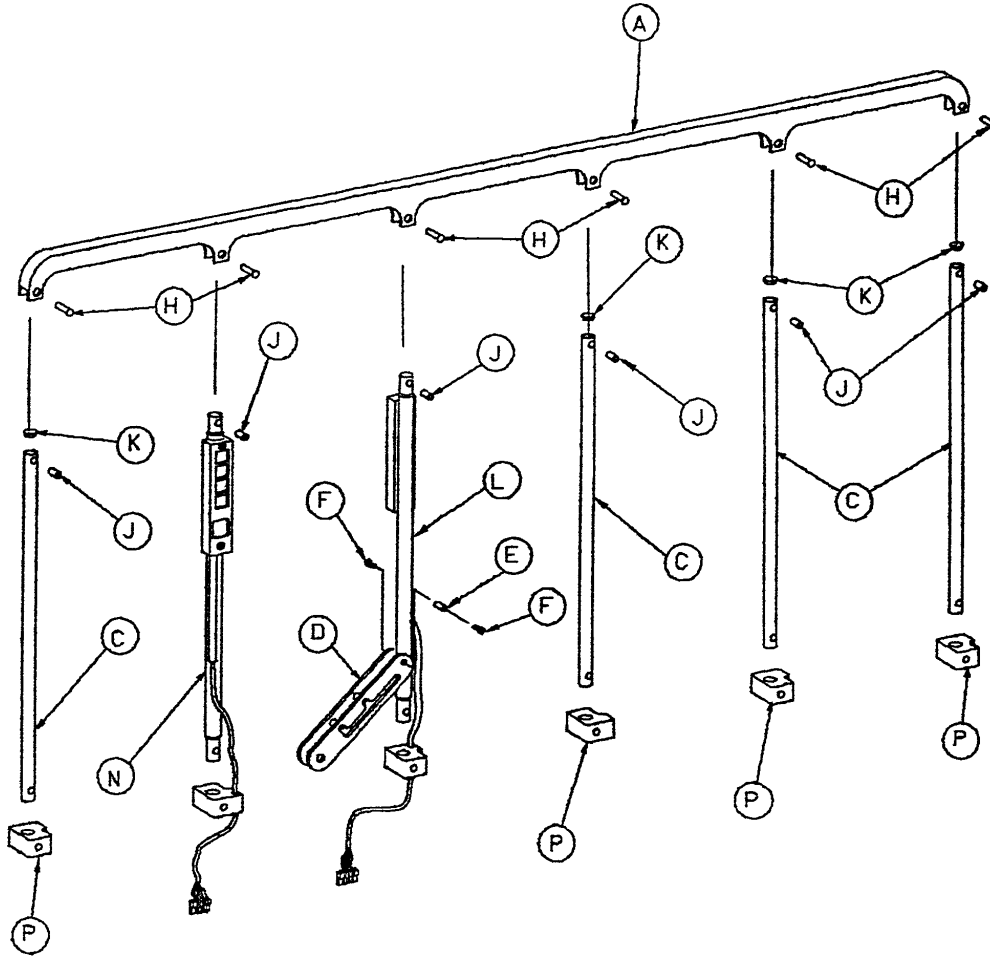
Siderail and Bumper Assembly, Right, Fold-to-Head with In-Rail Control Option

Assembly part number 2020-86-811 (reference only)



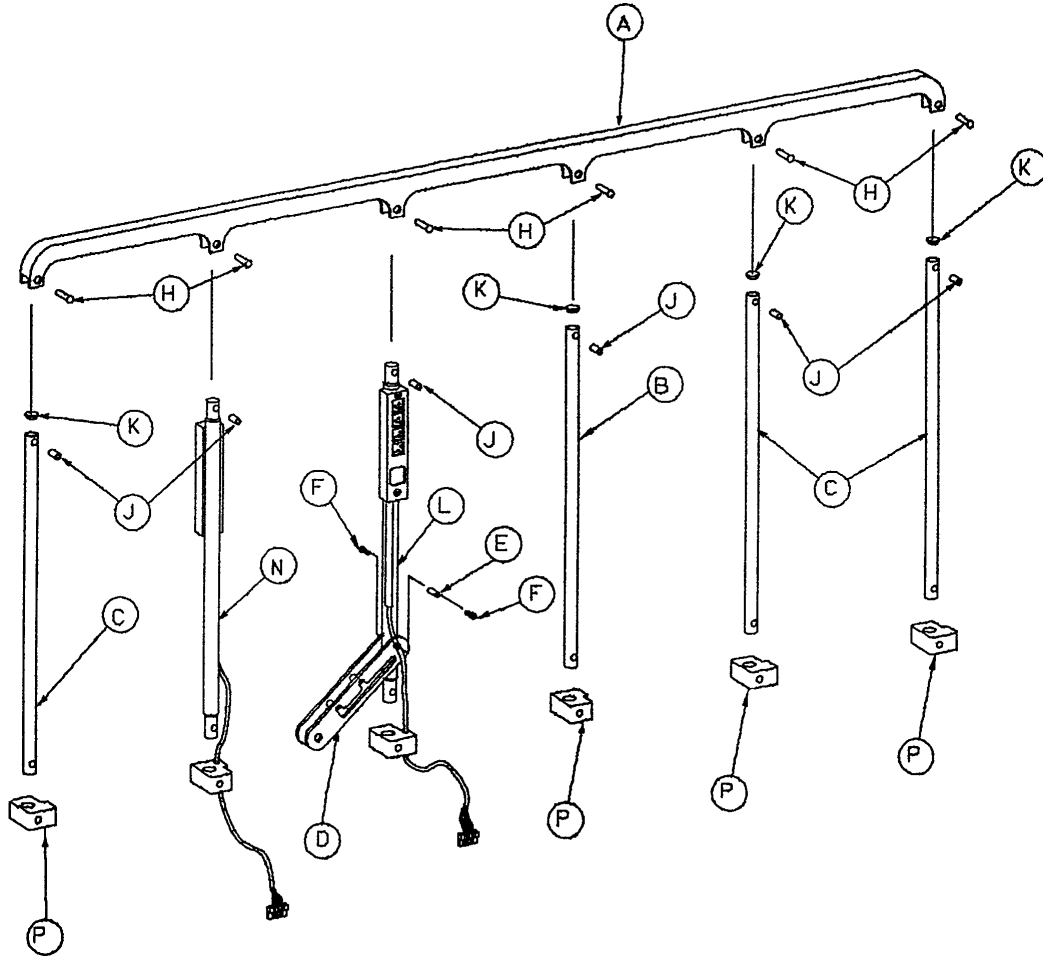
Item	Part No.	Part Name	Qty.
A	(page 87)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	7
D	14-17	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-820	Bumper, Right	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	52-110	Wire Clamp	4
M	2020-90-813	Lift/Trend. In-Rail Cable	1
P	34-22	Clamp	1
R	4-85	Soc. Hd. Cap Screw	1
S	16-3	Fiberlock Nut	1
T	958-1-529	Midsection Skin (not shown)	1

2020-87-812 Siderail Assembly, Left, Fold Foot with In-Rail Control Option



Item	Part No.	Part Name	Qty.
A	938-1-188	Top Rail	1
C	958-26-17	Upright	4
D	988-26-833	Siderail Lock Assembly	1
E	2020-86-817	Pivot Bar	1
F	4-49	Flat Hd. Mach. Screw	2
H	25-61	Semi-Tubular Rivet	6
J	2020-26-816	Spacer	6
K	37-42	Plug	4
L	(page 98)	Gatch/Fow. Ctrl. Spindle Ass'y	1
N	(page 100)	Lift/Trend. Ctrl. Spindle Ass'y	1
P	2020-90-865	Pivot, Standard	4

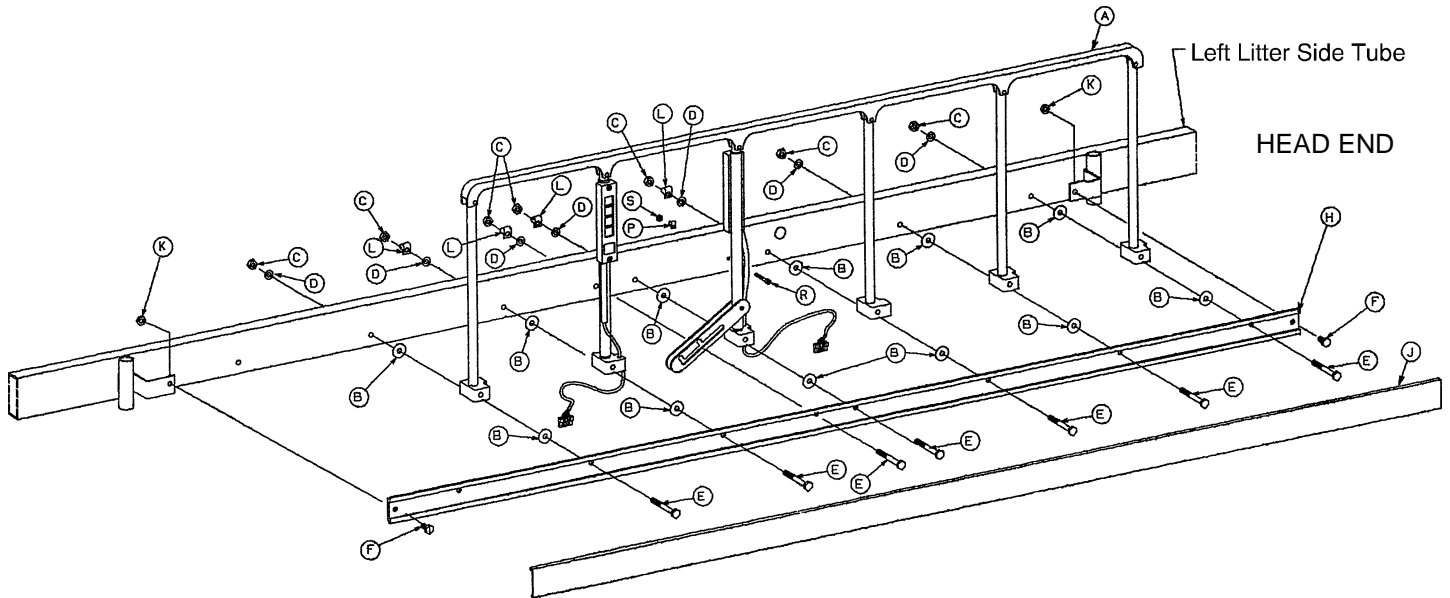
2020-87-813 Siderail Assembly, Right, Fold Foot with In-Rail Control Option



Item	Part No.	Part Name	Qty.
A	938-1-188	Top Rail	1
C	958-26-17	Upright	4
D	988-26-833	Siderail Lock Assembly	1
E	2020-26-817	Pivot Bar	1
F	4-49	Flat Hd. Mach. Screw	2
H	25-61	Semi-Tubular Rivet	6
J	2020-26-816	Spacer	6
K	37-42	Plug	4
L	(page 98)	Gatch/Fow. Ctrl. Spindle Ass'y	1
N	(page 100)	Lift/Trend. Ctrl. Spindle Ass'y	1
P	2020-90-865	Pivot, Standard	4

Siderail and Bumper Assembly, Left, Fold-to-Foot with In-Rail Control Option

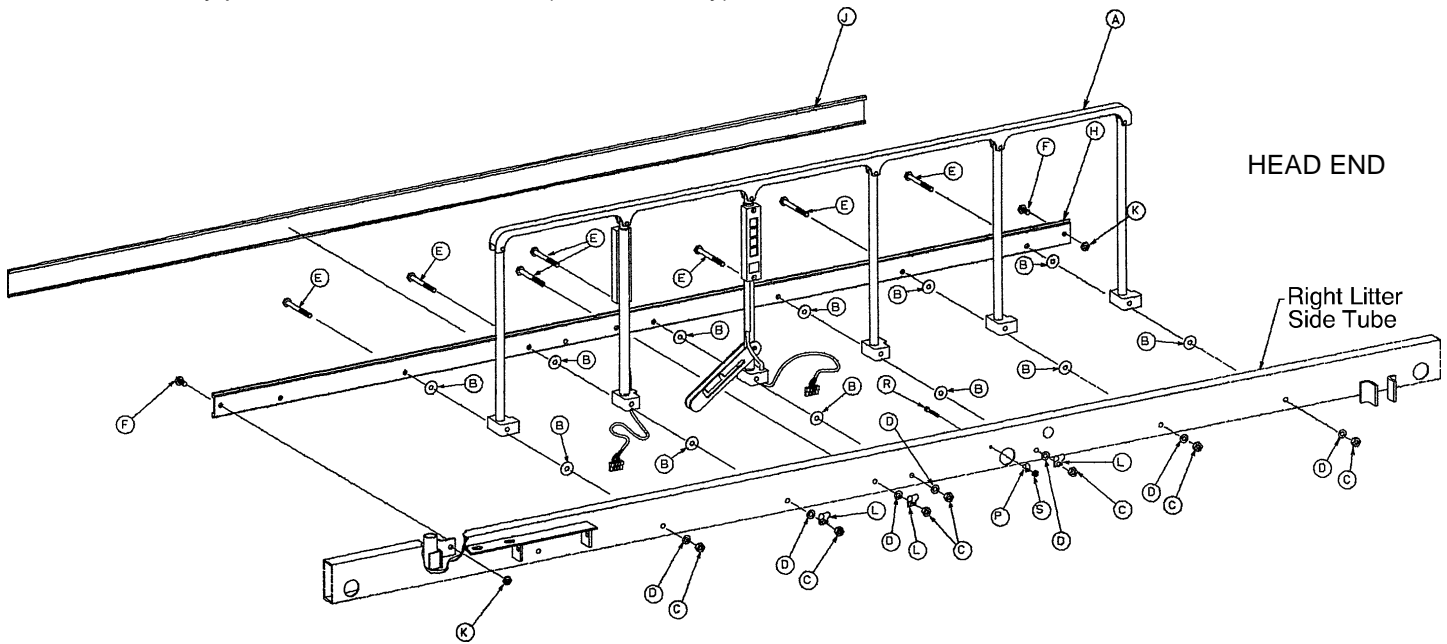
Assembly part number 2020-87-810 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 90)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	7
D	14-17	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-821	Bumper, Left	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	52-110	Wire Clamp	4
M	2020-90-813	Lift/Trend. In-Rail Cable	1
P	34-22	Clamp	1
R	4-85	Soc. Hd. Cap Screw	1
S	16-3	Fiberlock Nut	1
T	958-1-529	Midsection Skin (not shown)	1

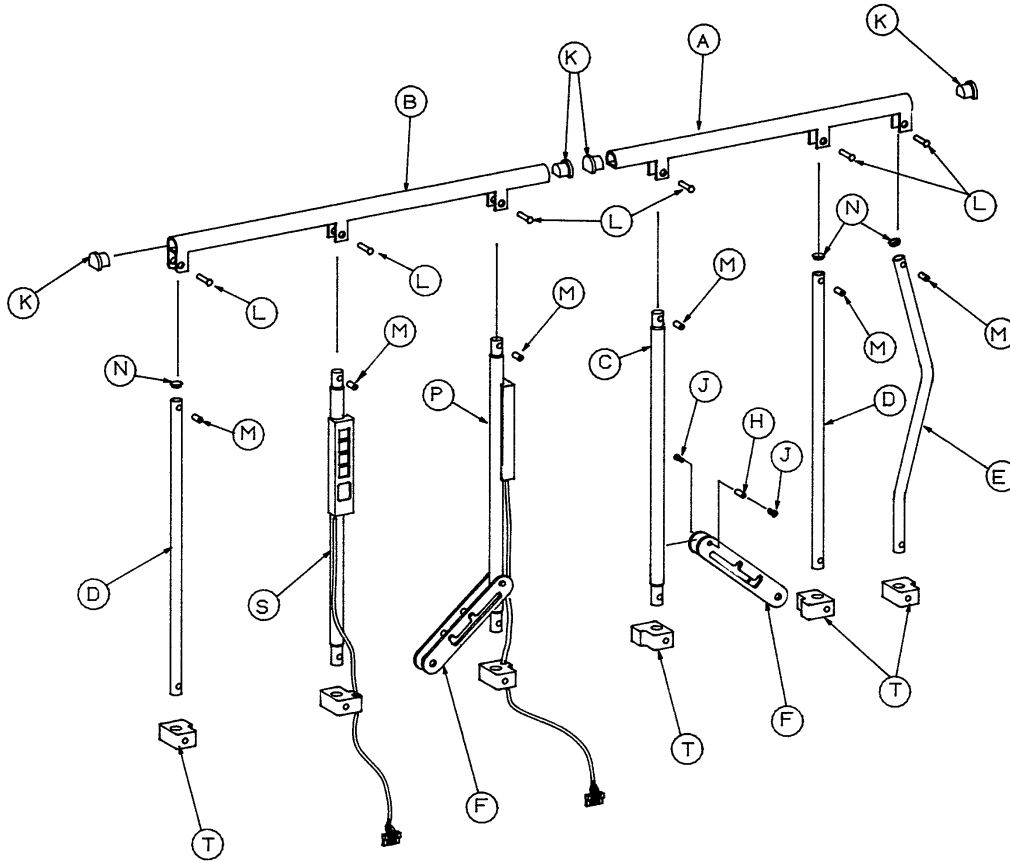
Siderail and Bumper Assembly, Right, Fold-to-Foot with In-Rail Control Option

Assembly part number 2020-87-811 (reference only)



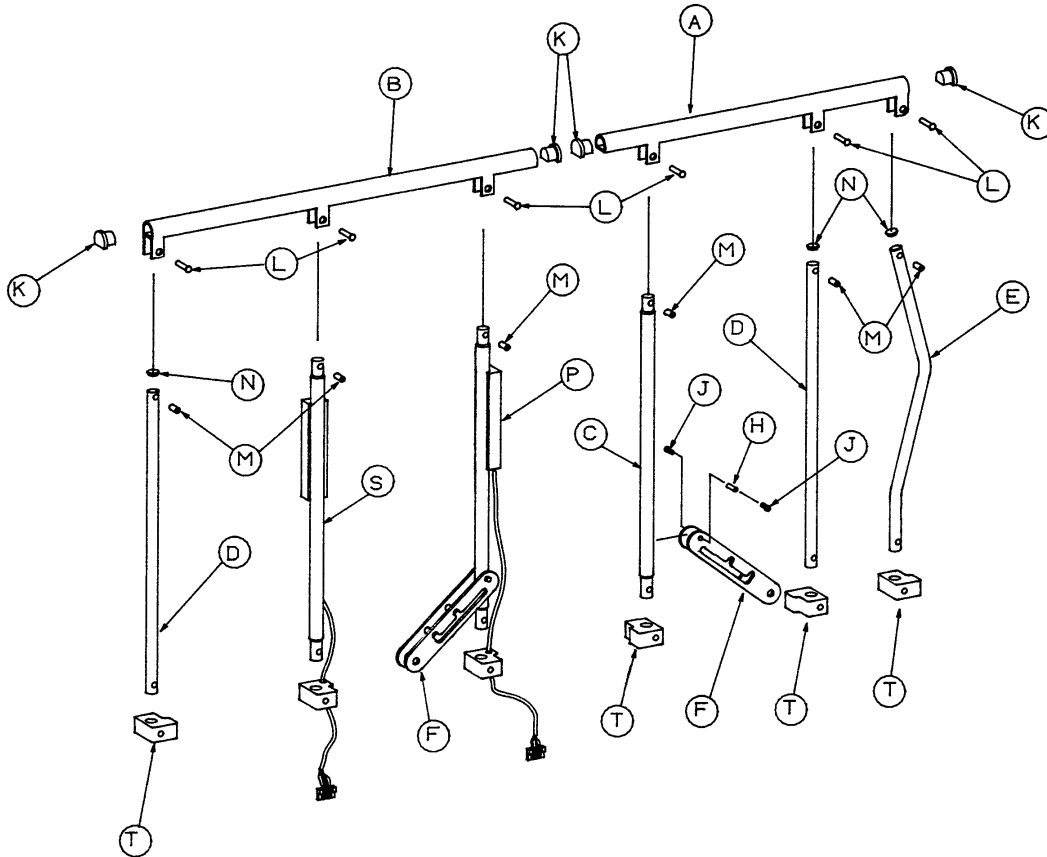
Item	Part No.	Part Name	Qty.
A	(page 91)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	7
D	14-17	Washer	7
E	3-88	Hex Hd. Cap Screw	7
F	3-2	Hex Hd. Cap Screw	2
H	958-26-820	Bumper, Right	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	52-110	Wire Clamp	4
M	2020-90-813	Lift/Trend. In-Rail Cable	1
P	34-22	Clamp	1
R	4-85	Soc. Hd. Cap Screw	1
S	16-3	Fiberlock Nut	1
T	958-1-529	Midsection Skin (not shown)	1

2020-88-812 Split Siderail Assembly, Left with In-Rail Control Option



Item	Part No.	Part Name	Qty.
A	2020-28-816	Top Rail, Front	1
B	2020-28-825	Top Rail, Rear	1
C	2020-28-815	Lock Spindle	1
D	958-26-17	Upright	2
E	2020-28-818	Front Spindle	1
F	946-26-29	Siderail Lock Assembly	2
H	2020-26-817	Pivot Bar	2
J	1-22	Flat Hd. Machine Screw	4
K	37-43	Siderail End Plug	4
L	25-61	Semi-Tubular Rivet	6
M	2020-26-816	Spacer	6
N	37-42	Plug	3
P	(page 99)	Gatch/Fow. Ctrl. Spind. Ass'y	1
S	(page 100)	Lift/Trend. Ctrl. Spind. Ass'y	1
T	2020-90-865	Pivot, Standard	4

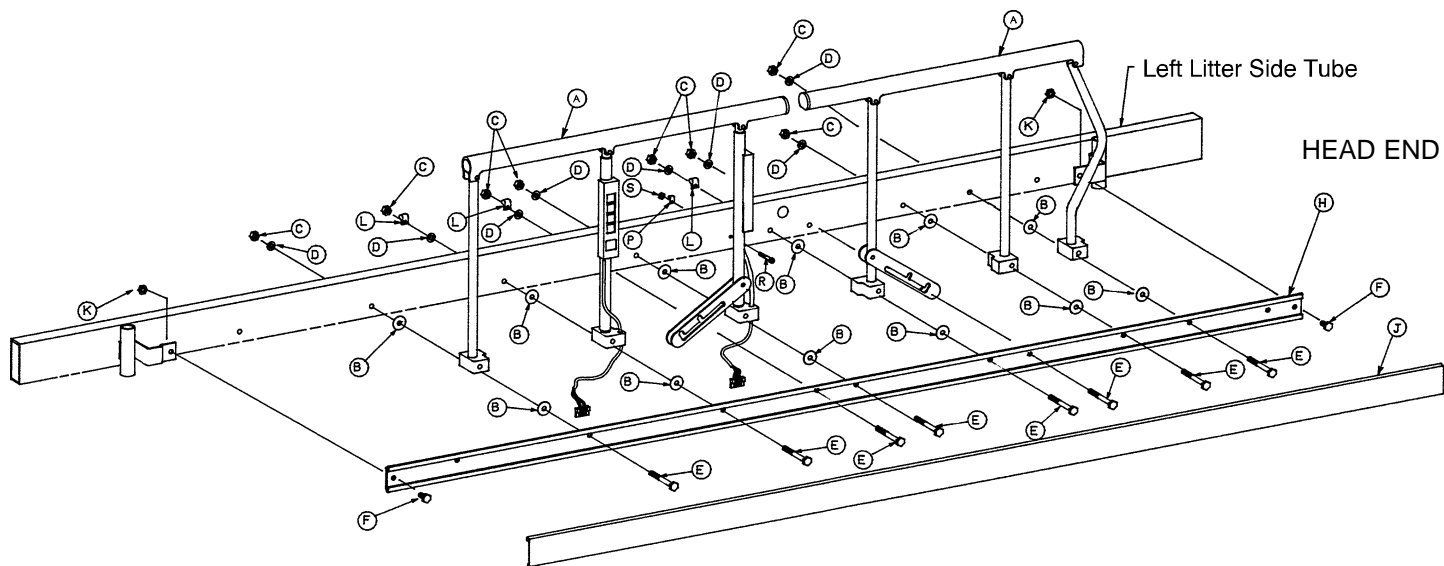
2020-88-813 Split Siderail Assembly, Right with In-Rail Control Option



Item	Part No.	Part Name	Qty.
A	2020-28-816	Top Rail, Front	1
B	2020-28-825	Top Rail, Rear	1
C	2020-28-815	Lock Spindle	1
D	958-26-17	Upright	2
E	2020-28-818	Front Spindle	1
F	946-26-29	Siderail Lock Assembly	2
H	2020-26-817	Pivot Bar	2
J	1-22	Flat Hd. Machine Screw	4
K	37-43	Siderail End Plug	4
L	25-61	Semi-Tubular Rivet	6
M	2020-26-816	Spacer	6
N	37-42	Plug	3
P	(page 99)	Gatch/Fow. Ctrl. Spind. Ass'y	1
S	(page 100)	Lift/Trend. Ctrl. Spind. Ass'y	1
T	2020-90-865	Pivot, Standard	4

Siderail and Bumper Assembly, Left, Split with In-Rail Control Option

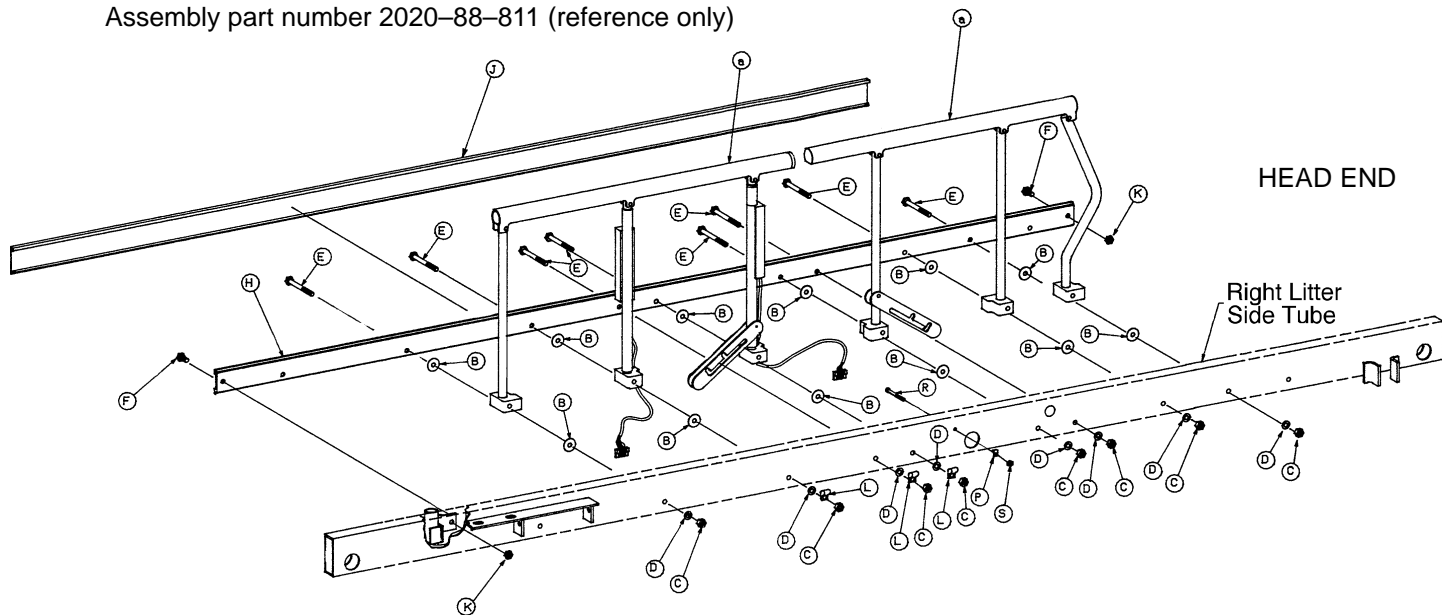
Assembly part number 2020-88-810 (reference only)



Item	Part No.	Part Name	Qty.
A	(page 94)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	8
D	14-17	Washer	8
E	3-88	Hex Hd. Cap Screw	8
F	3-2	Hex Hd. Cap Screw	2
H	958-26-821	Bumper, Left	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	52-110	Wire Clamp	3
M	2020-90-813	Lift/Trend. In-Rail Cable	1
P	34-22	Clamp	1
R	4-85	Soc. Hd. Cap Screw	1
S	16-3	Fiberlock Nut	1
T	958-1-529	Midsection Skin (not shown)	1

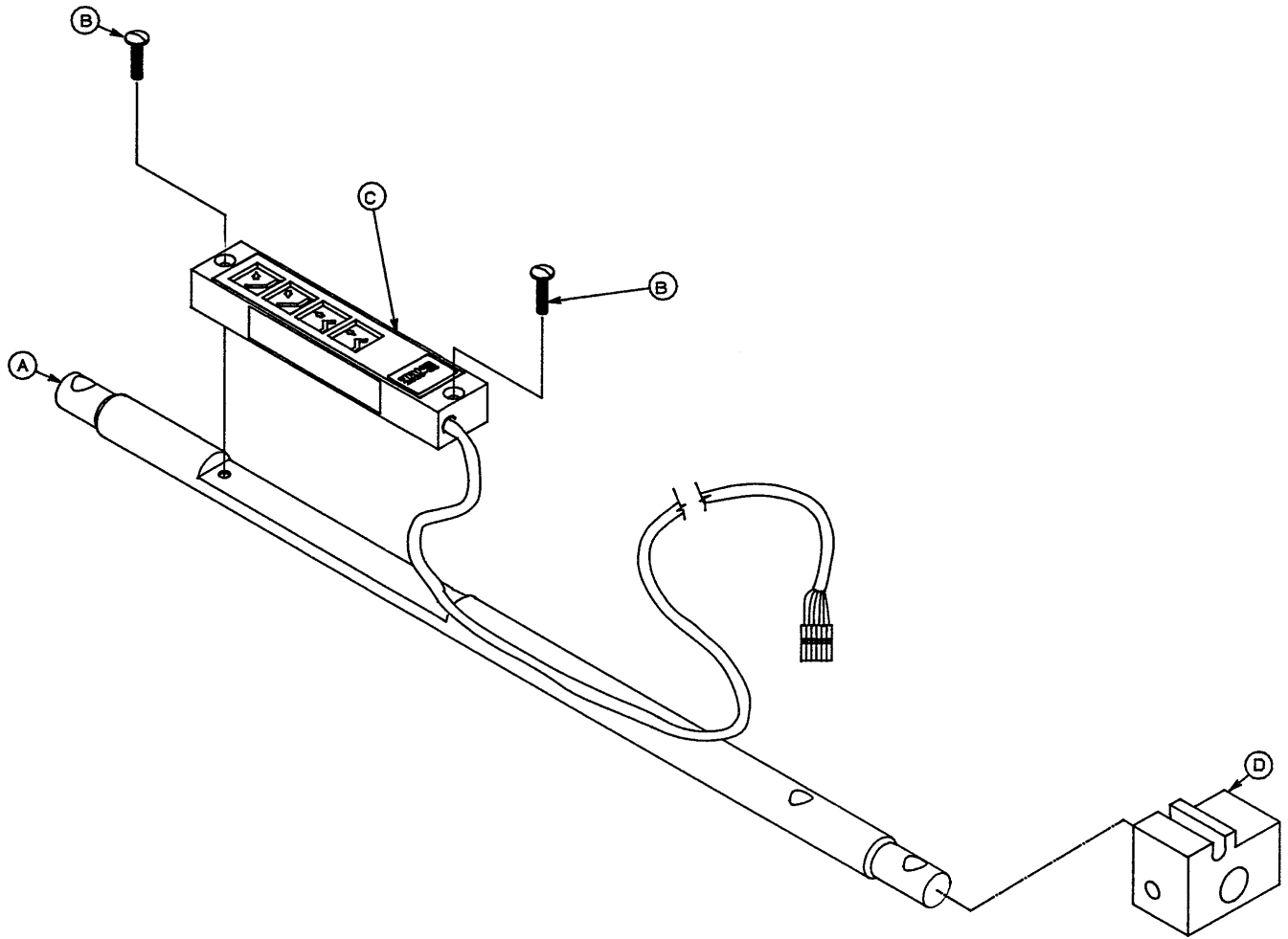
Siderail and Bumper Assembly, Right, Split with In-Rail Control Option

Assembly part number 2020-88-811 (reference only)



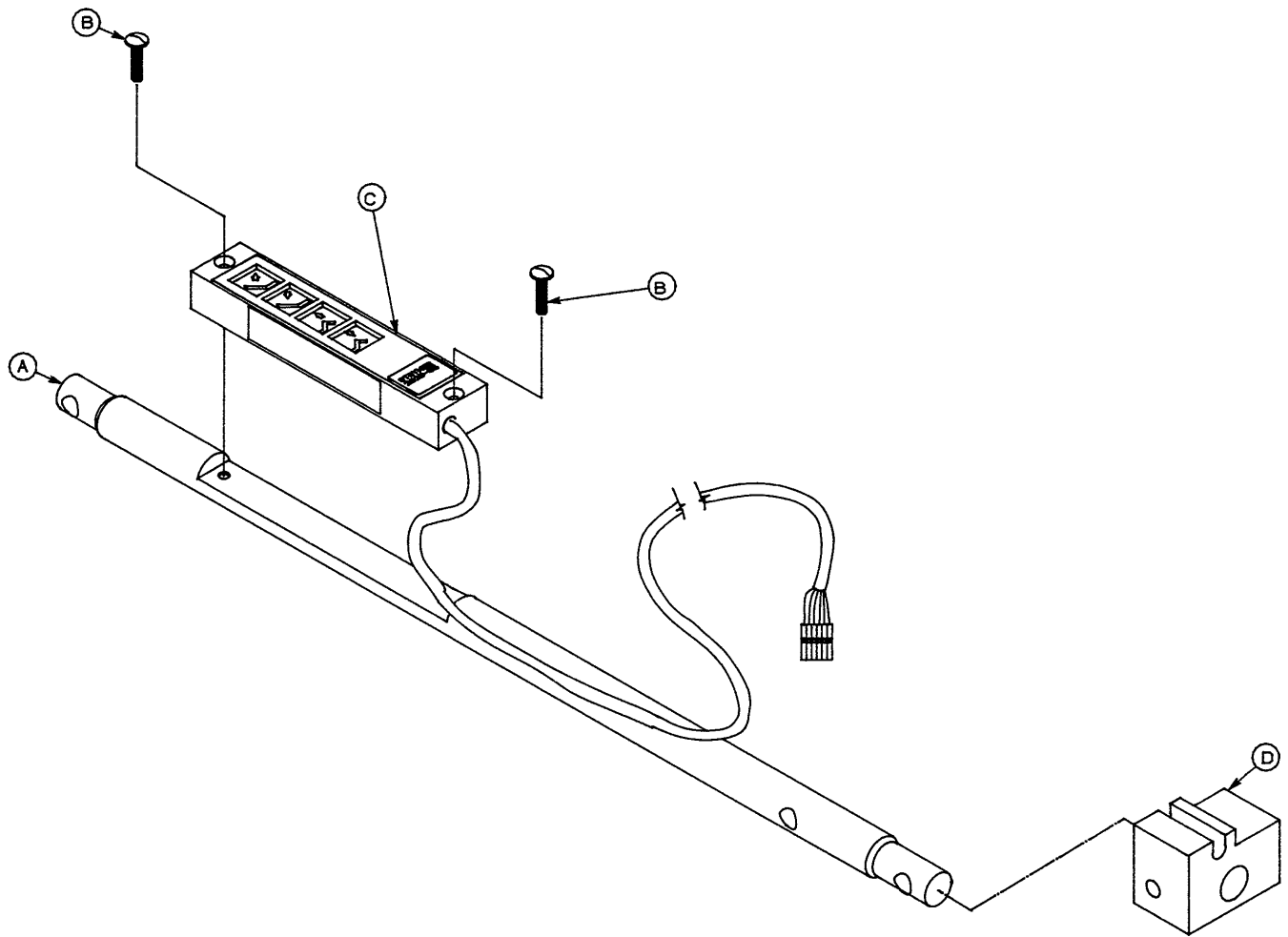
Item	Part No.	Part Name	Qty.
A	(page 95)	Siderail Assembly	1
B	14-19	Washer	12
C	16-11	Flexlock Nut	8
D	14-17	Washer	8
E	3-88	Hex Hd. Cap Screw	8
F	3-2	Hex Hd. Cap Screw	2
H	958-26-820	Bumper, Right	1
J	988-1-576	Cap	1
K	16-16	Fiberlock Nut	2
L	52-110	Wire Clamp	3
M	2020-90-813	Lift/Trend. In-Rail Cable	1
P	34-22	Clamp	1
R	4-85	Soc. Hd. Cap Screw	1
S	16-3	Fiberlock Nut	1
T	958-1-529	Midsection Skin (not shown)	1

2020-88-850 Gatch/Fowler Control Spindle Full Siderail



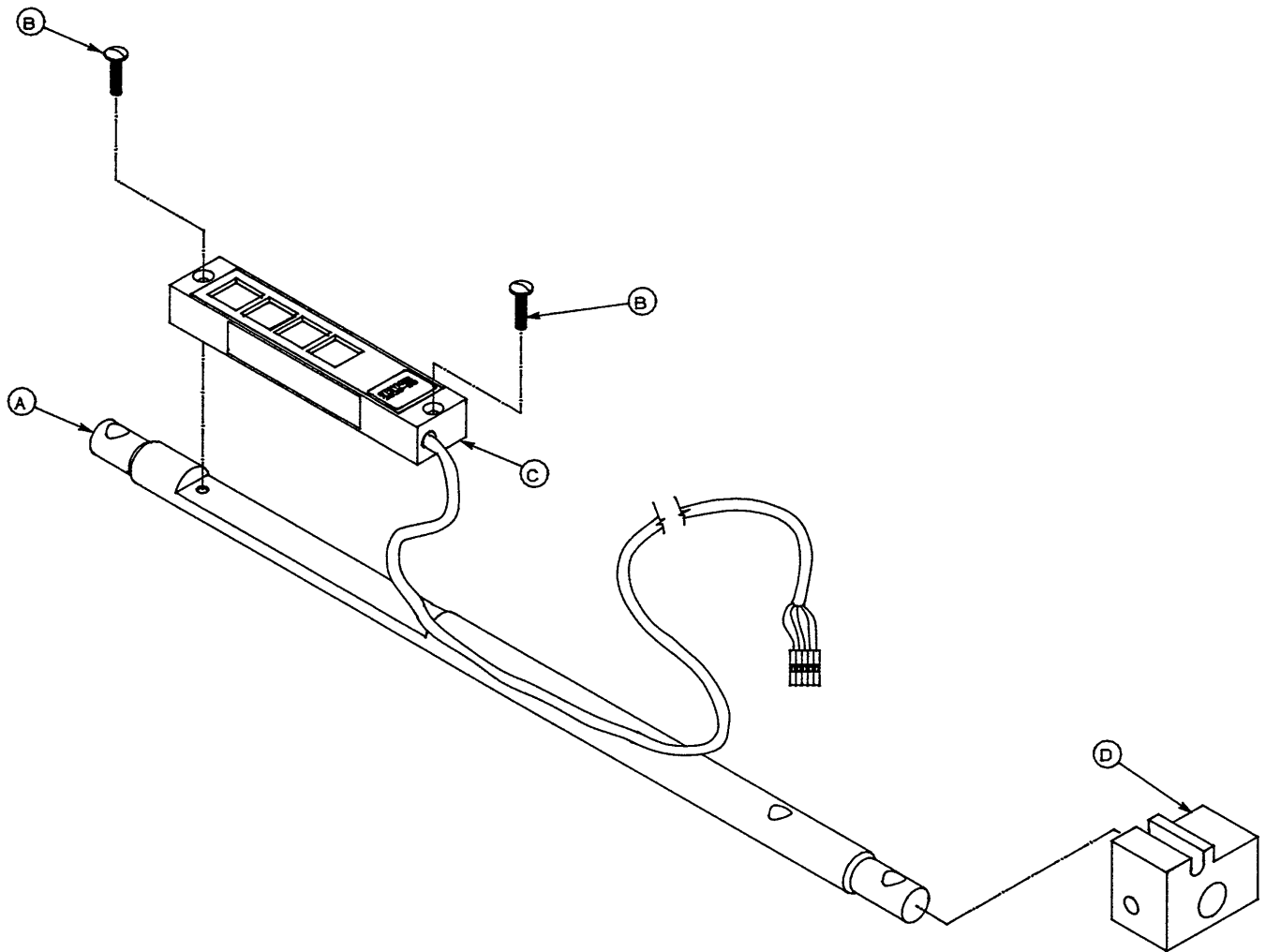
Item	Part No.	Part Name	Qty.
A	2020-88-851	Control Spindle	1
B	1-90	Truss Hd. Machine Screw	2
C	2020-88-855	Patient Control Assembly	1
D	2020-90-860	Pivot, Slotted	1

2020-88-860 Gatch/Fowler Control Spindle, Split Siderail



Item	Part No.	Part Name	Qty.
A	2020-88-861	Control Spindle	1
B	1-90	Truss Hd. Machine Screw	2
C	2020-88-855	Patient Control Assembly	1
D	2020-90-860	Pivot, Slotted	1

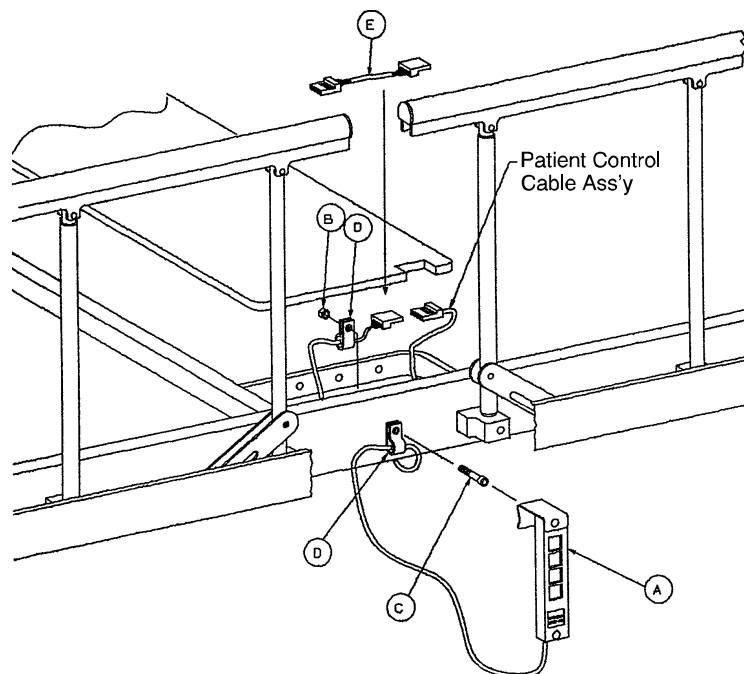
2020-90-850 Lift/Trend. Control Spindle Assembly



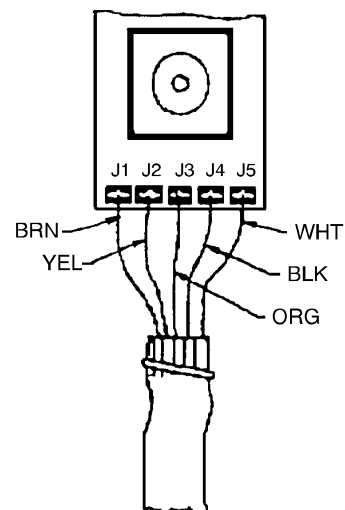
Item	Part No.	Part Name	Qty.
A	2020-88-851	Control Spindle	1
B	1-90	Truss Hd. Machine Screw	2
C	2020-90-855	Patient Control Assembly	1
D	2020-90-860	Pivot, Slotted	1

2020-85-100 Single Patient Control Assembly

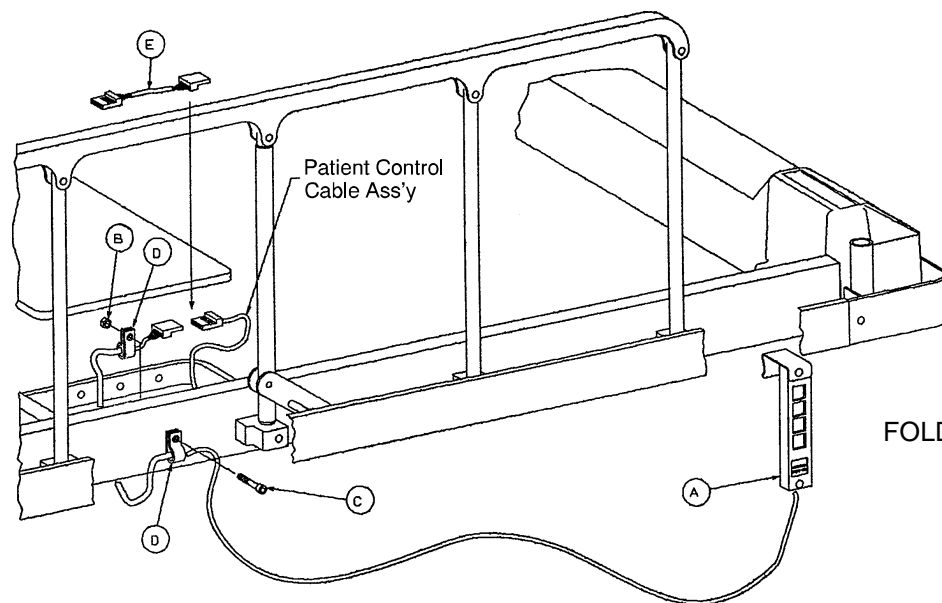
2020-85-110 Dual Patient Control Assembly



SPLIT SIDERAILS



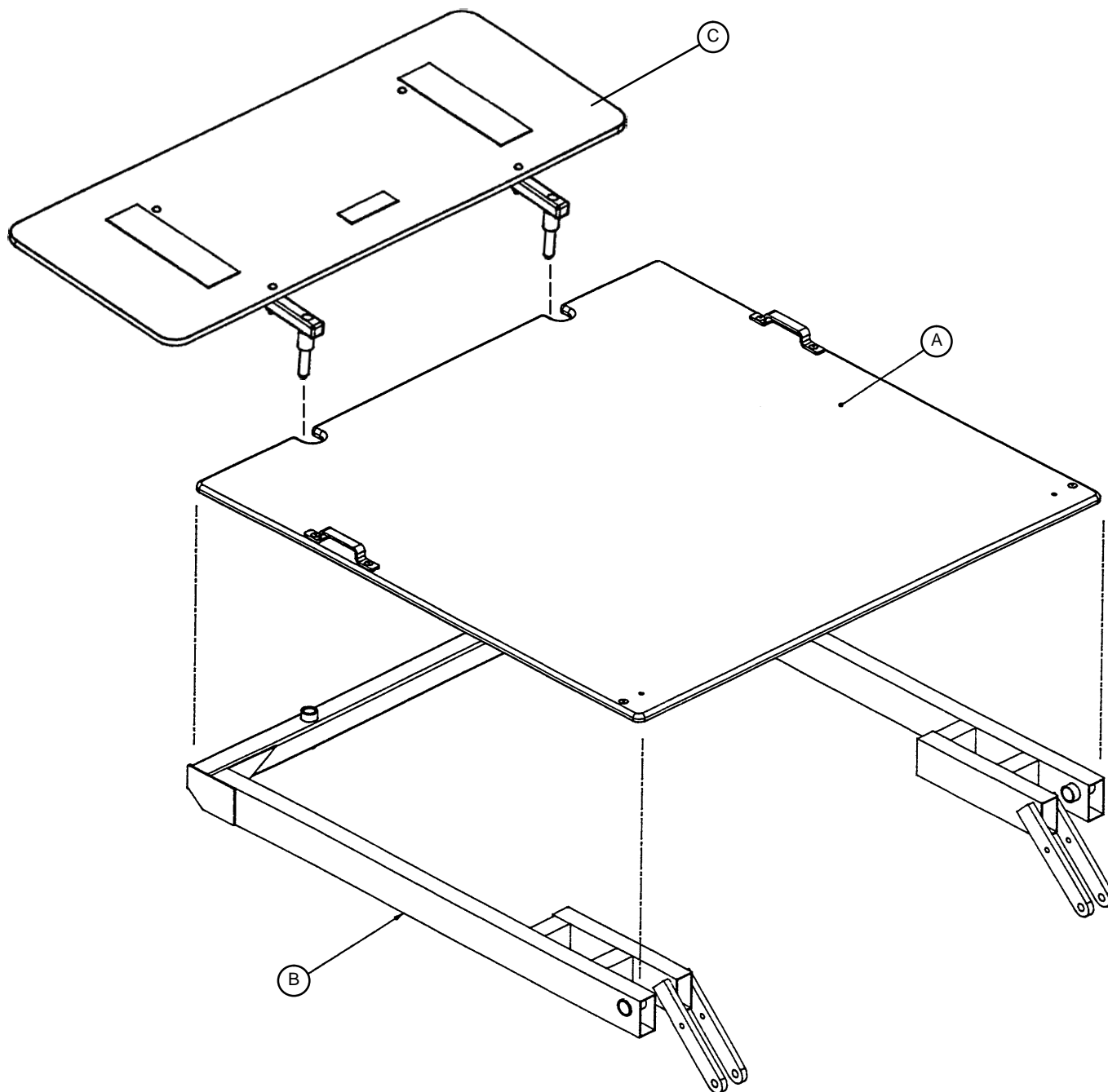
PATIENT CONTROL SWITCH CORD WIRING DETAIL



FOLDDOWN SIDERAILS

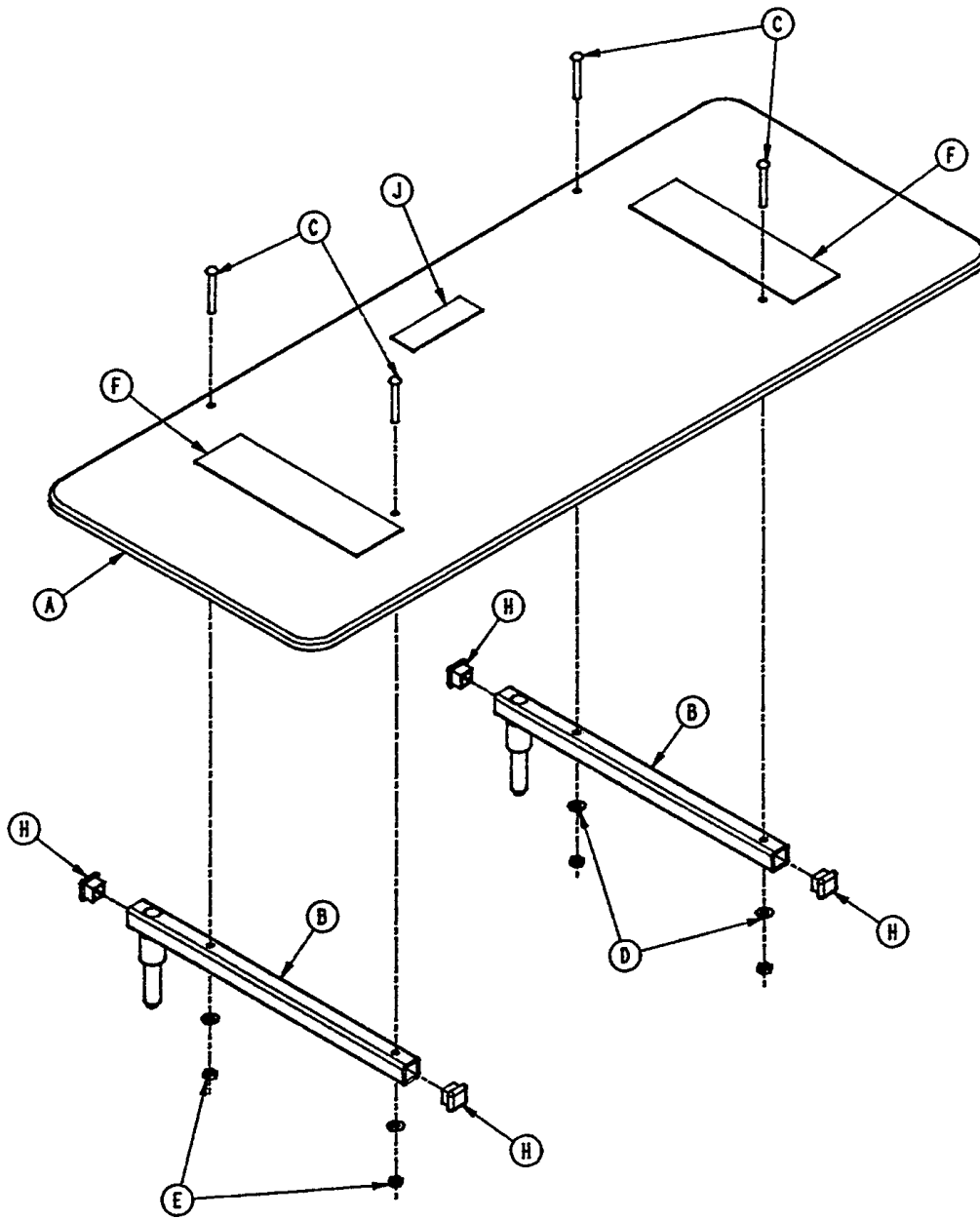
Item	Part No.	Part Name	Qty.
A	2020-85-875	Patient Control Assembly	1
B	16-3	Fiberlock Nut	1
C	4-85	Soc. Hd. Cap Screw	1
D	34-22	Loop Type Clamp	2
E	2020-85-828	Adaptor Cable	1 (when req'd)
F	2020-85-825	Pendant Clip (not shown)	1
H	7-33	Clip Mtg. Screw (not shown)	1
J	15-48	Clip Mtg. Nut (not shown)	1

2020-62-10 Optional Head Extension/Fowler Assembly



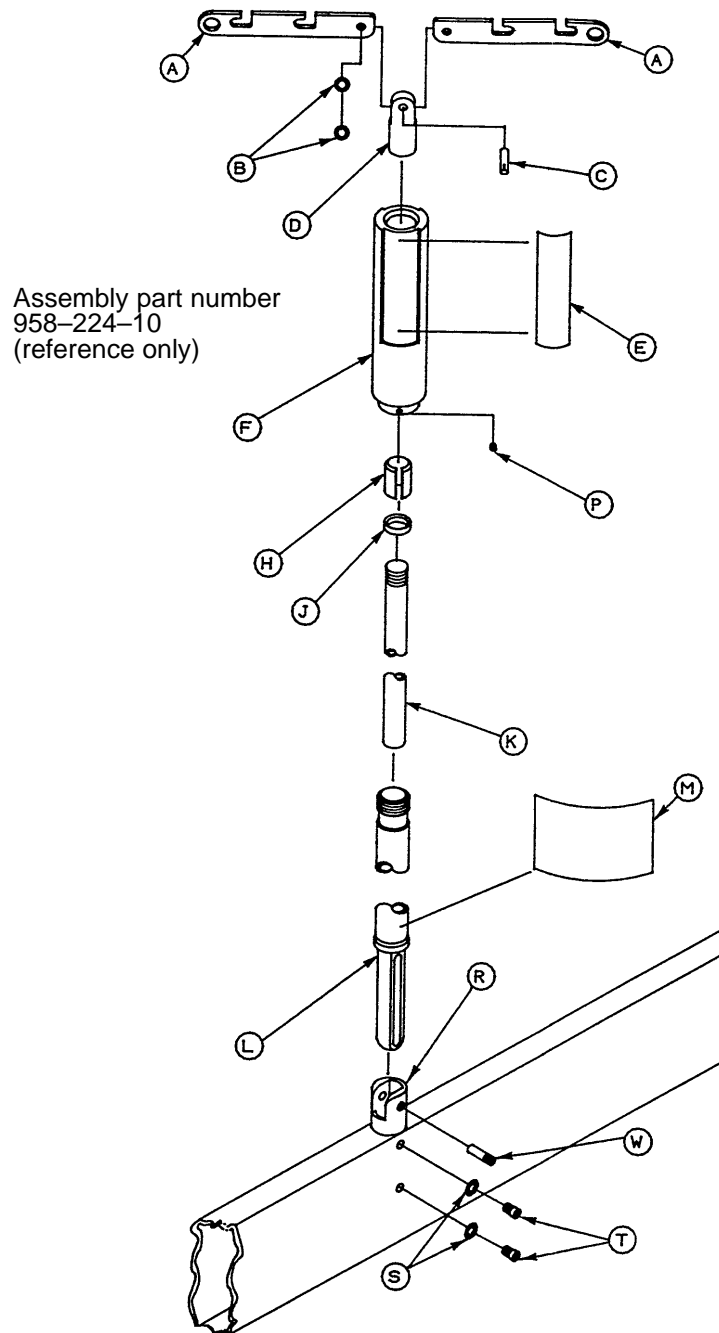
Item	Part No.	Part Name	Qty.
A	2020-62-28	Fowler Skin	1
B	2020-62-12	Fowler Weldment	1
C	(page 103)	Head Extension Assembly	1
	2020-66	6" Head Mattress (not shown)	1
	2020-64	4" Head Mattress (not shown)	1

2020-62-14 Optional Head Extension Assembly



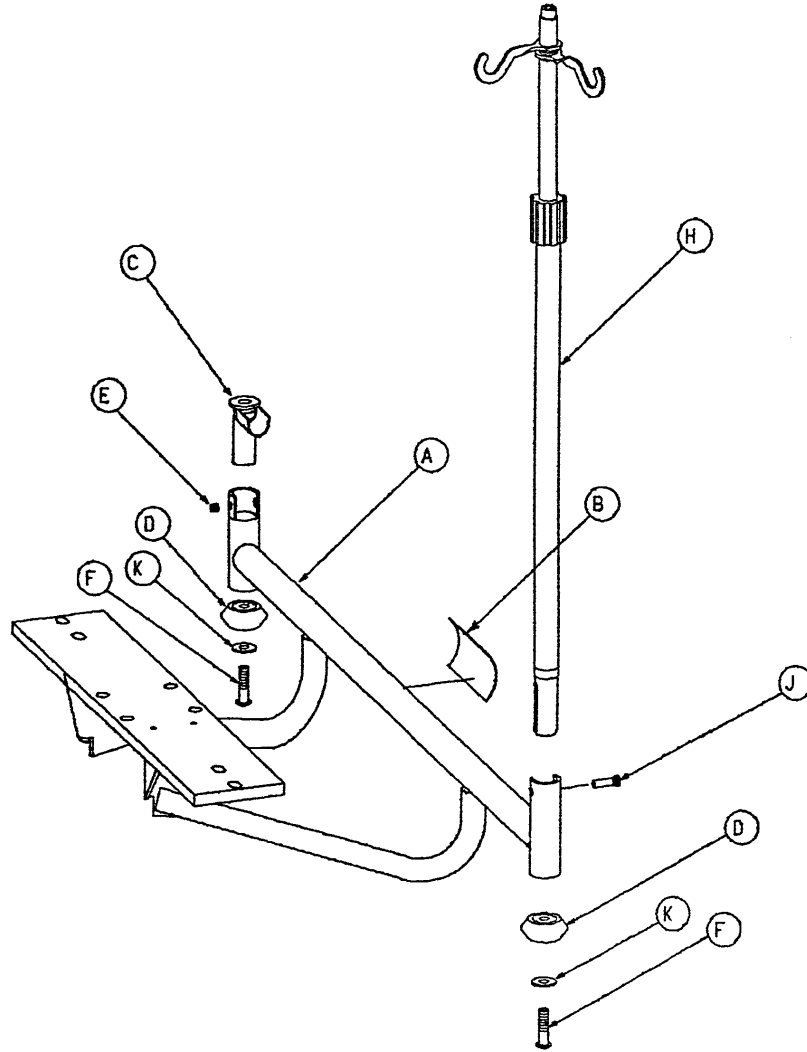
Item	Part No.	Part Name	Qty.
A	2020-62-25	Head Extension Skin	1
B	2020-62-15	Support Arm Assembly	2
C	2-56	Round Hd. Screw	4
D	11-1	Flat Washer	4
E	16-2	Fiberlock Nut	4
F	7900-1-102	Velcro Pile Tape	2
H	37-75	Hole Plug	4
J	2020-62-31	Label	1
	2020-64	2" Mattress (not shown)	
	2020-66	4" Mattress (not shown)	

958-224-100 Permanent, Folding I.V. Holder Assembly



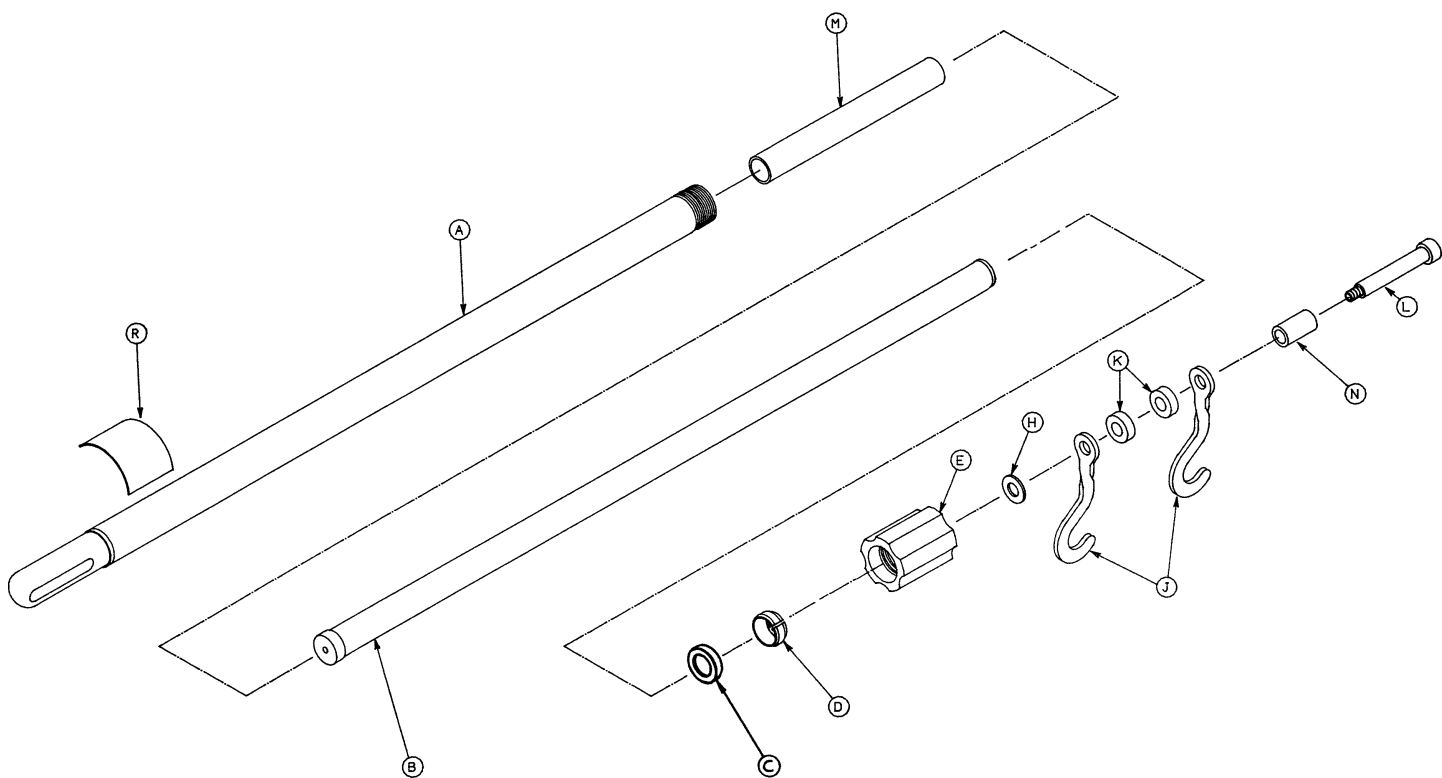
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	946-224-1	Hanger	2	M	958-224-11	Label	1
B	14-16	Washer	2	N	958-224-21	Adhesive Pad	1
C	26-147	Groove Pin	1	P	21-107	Set Screw	1
D	946-224-2	Top Bracket, Mach'd	1	R	2020-19-518	I.V. Sleeve, Mach'd	1
E	2020-1-162	Label	2	S	13-33	Lock Washer	2
F	946-224-33	Grip Assembly	1	T	4-112	Soc. Hd. Cap Screw	2
H	946-224-4	Lock	1	W	958-224-20	Hinge Pin	1
J	946-224-5	Ring	1	Y	25-37	Pop Rivet	1
K	946-224-3	Inner Tube	1	Z	958-224-18	Rest	1
L	2020-19-512	Hinge & Outer Tube Ass'y	1				

2020-78-511 Isolated I.V. Socket Ass'y, Std. or Perm. I.V. Pole



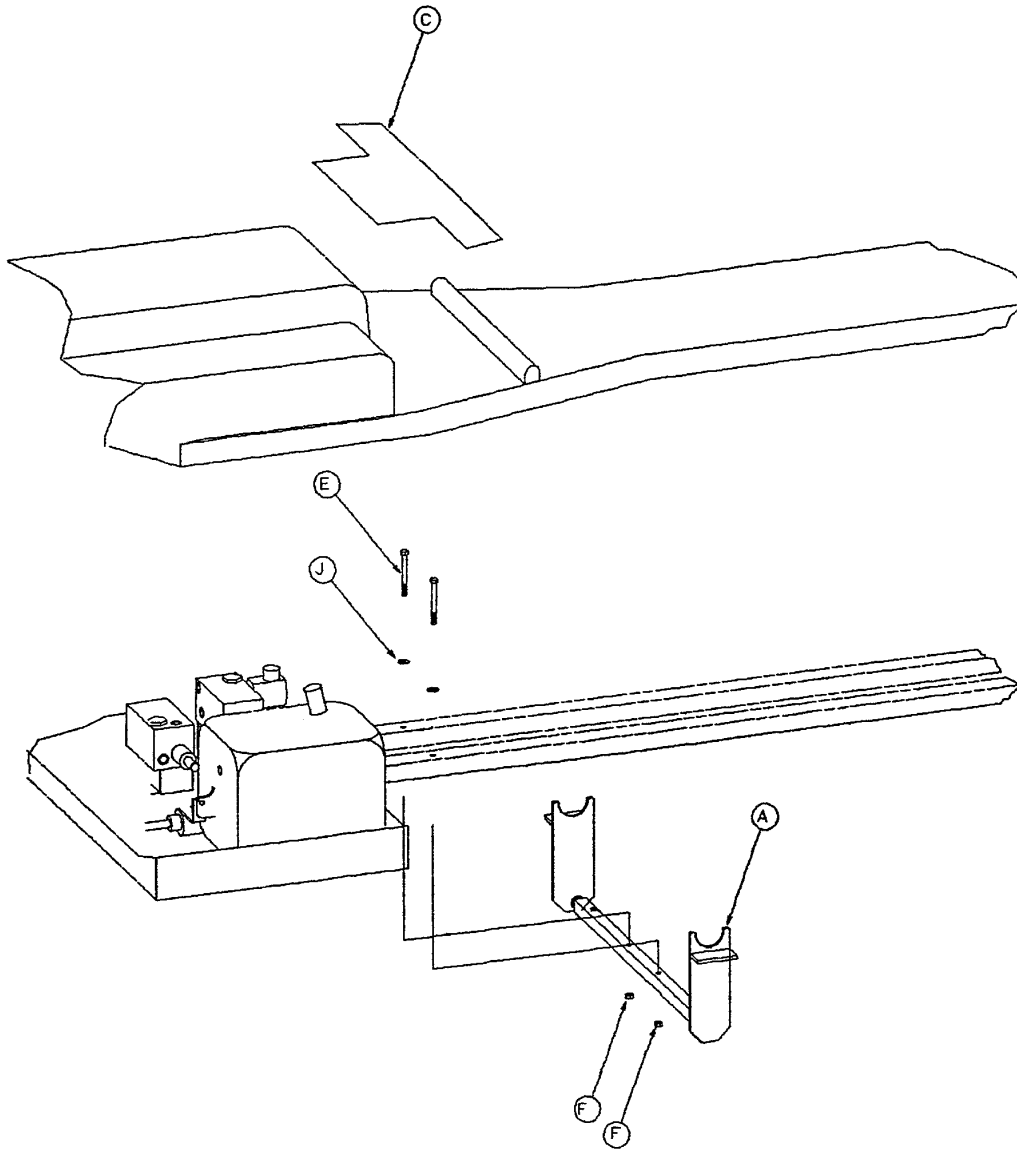
Item	Part No.	Part Name	Qty.
A	2020-77-511	Isolated I.V. Assembly	1
B	2020-77-524	Label	1
C	2020-77-520	Socket Insert Ass'y	1
D	721-32-49	Bumper Roller	2
E	21-131	Set Screw	1
F	8-35	Shoulder Bolt	2
H	(page 106)	I.V. Pole Assembly	1
J	1015-24-35	Retaining Pin	1
K	11-14	Washer	2

2020-78-525 Permanent, Isolated I.V. Pole Assembly



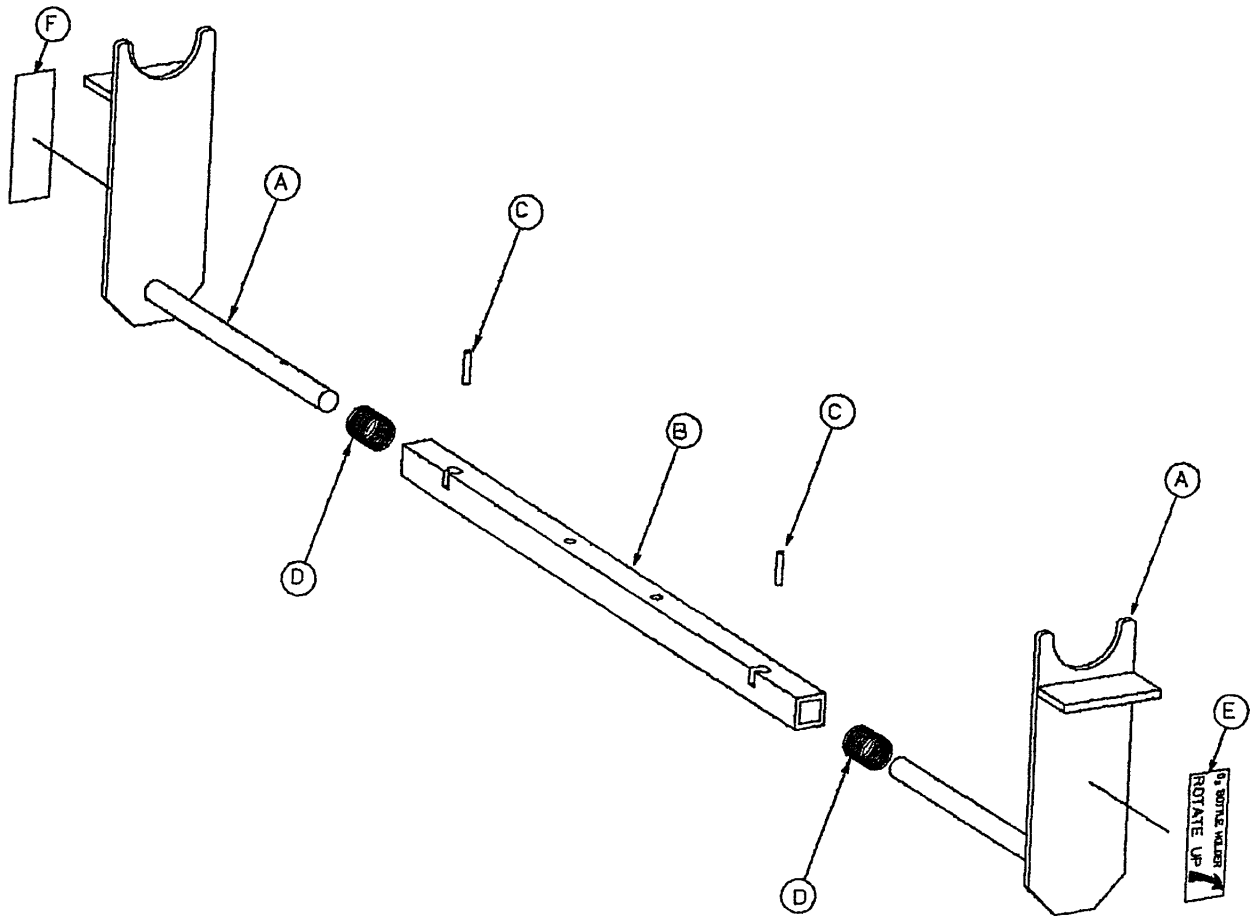
Item	Part No.	Part Name	Qty.
A	1510-59-15	Base Tube Assembly	1
B	926-400-31	Extension Tube Assembly	1
C	1210-110-46	Back-Up Ring	1
D	1210-110-47	Lock Ring	1
E	1210-110-49	Lock Actuator	1
H	14-20	Nylon Flat Washer	1
J	1010-59-16	I.V. Hook	2
K	52-17	Nylon Spacer	2
L	8-31	Shoulder Bolt	1
M	2020-78-516	I.V. Tube Spacer	1
N	926-400-62	Stop Sleeve	1
R	2020-78-517	Logo Label	1

2020-30-210 Oxygen Bottle Holder Mounting Assembly



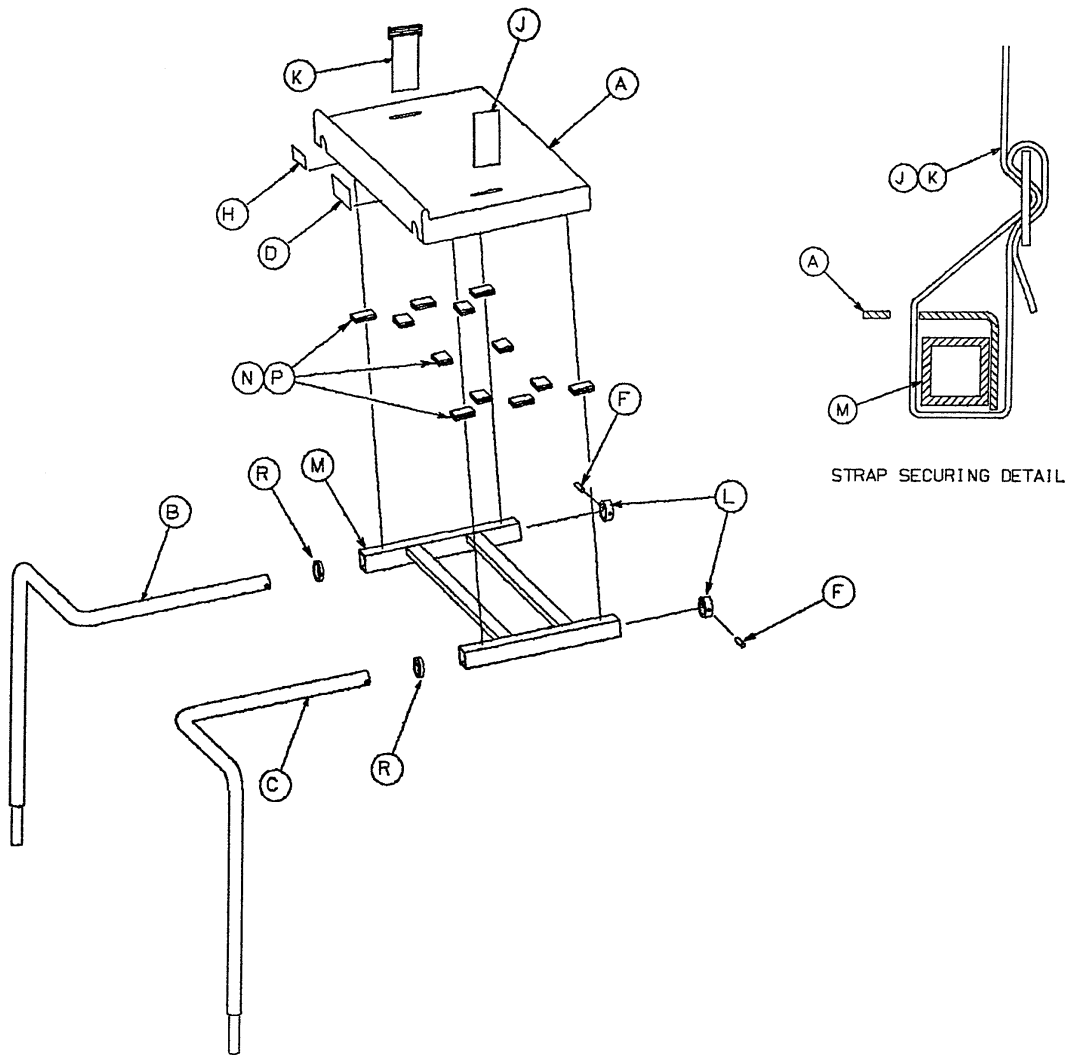
Item	Part No.	Part Name	Qty.
A	(page 108)	Bottle Holder Assembly	1
C	2020-30-221	Adhesive Mat	1
E	3-79	Hex Hd. Cap Screw	2
F	16-16	Nylock Hex Nut	2
J	13-10	Washer	2

2020-30-220 Oxygen Bottle Holder Assembly



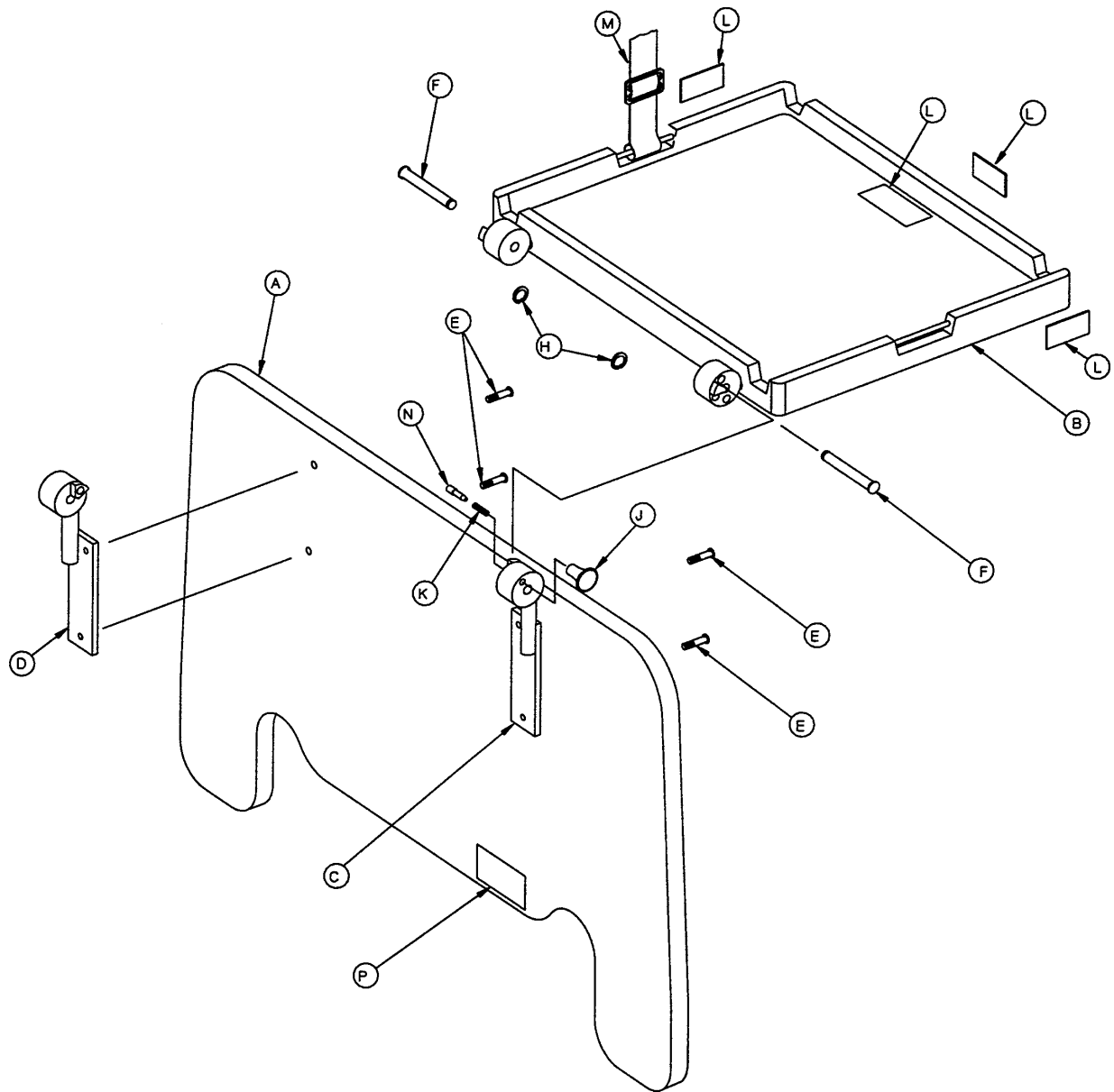
Item	Part No.	Part Name	Qty.
A	2020-30-215	Bottle Holder Assembly	2
B	2020-30-211	Pivot Support	1
C	26-10	Roll Pin	2
D	38-221	Compression Spring	2
E	2020-30-217	O2 Bottle Label, Left	1
F	2020-30-218	O2 Bottle Label, Right	1

2020-39-510 Optional Defibrillator Tray Assembly



Item	Part No.	Part Name	Qty.
A	2020-39-535	Defibrillator Tray	1
B	2020-39-521	Leg Assembly, Left	1
C	2020-39-520	Leg Assembly, Right	1
D	2020-39-513	Label	1
F	26-14	Roll Pin	2
H	946-1-283	Weight Label	1
J	390-57-12	Long Strap	1
K	1010-50-21	Short Strap	1
L	350-2-24	Collar	2
M	2020-39-530	Support Tube Assembly	1
N	29-8	Dual Lock	12
P	29-10	Dual Lock	12
R	938-1-401	Collar	2

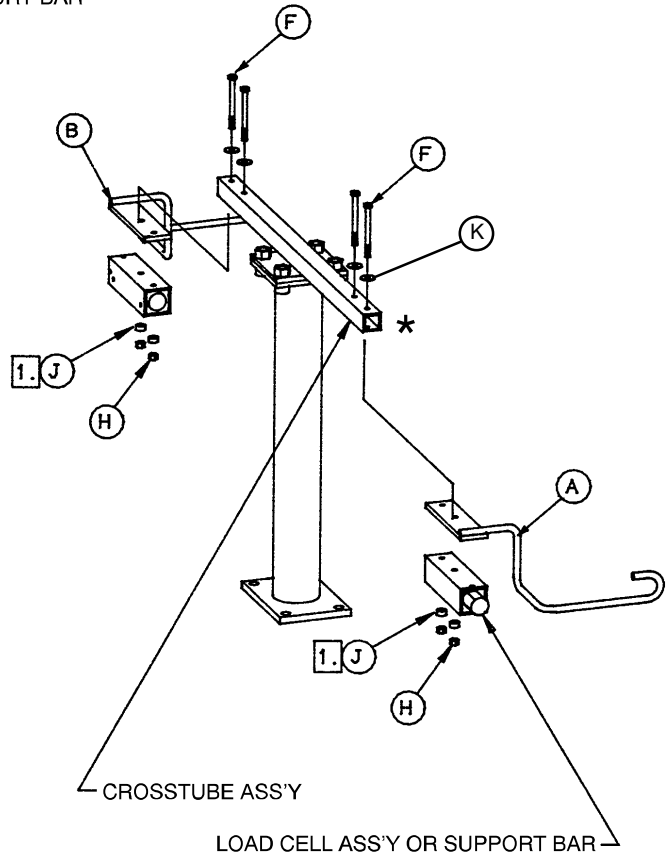
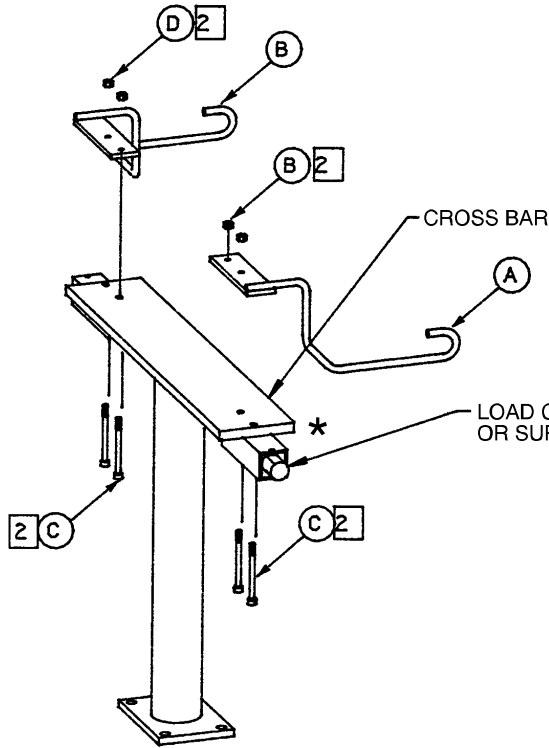
2020-139-510 Foot Extension/Defibrillator Tray Ass'y



Item	Part No.	Part Name	Qty.
A	2020-139-551	Foot Board (Defib.)	1
B	2020-139-525	Foot & Tray Board	1
C	1998-139-511	Right Hinge Assembly	1
D	1998-139-512	Left Hinge Assembly	1
E	4-176	Button Head Cap Screw	4
F	1010-50-48	Pin	2
H	28-95	Retaining Ring	2
J	1010-50-50	Knob	1
K	38-239	Spring	1
L	1010-50-57	Tray Label	4
M	1010-50-21	Long Strap	1
N	1010-50-62	Lock Pin	1
P	2020-139-521	Board Label	1

2020-72-100 Foley Bag Holder Replacement Kit

NOTE: Drawings represent foot end of bed.



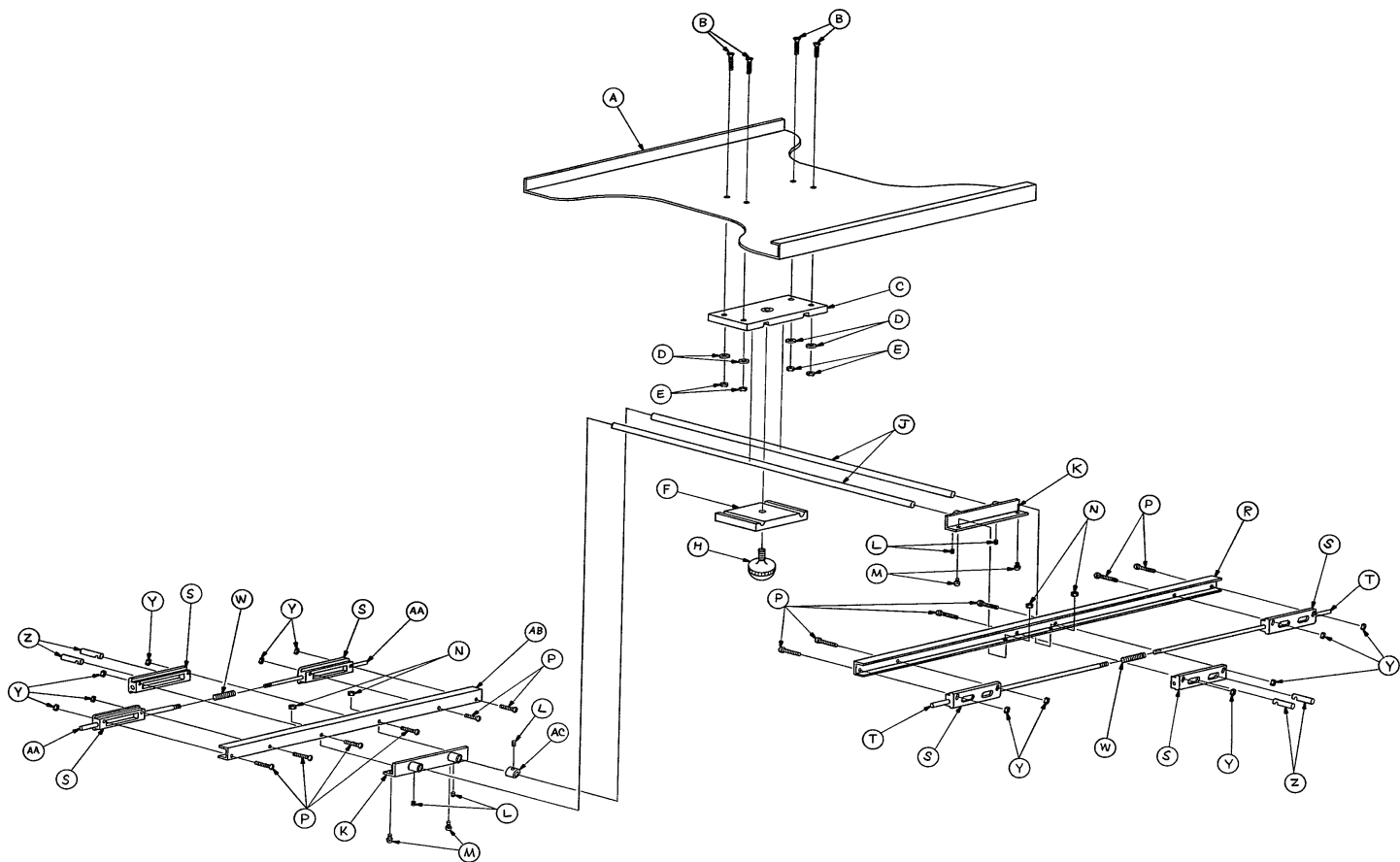
* Bed will have either a crosstube or a crossbar.

1. Item J Spacer used with load cell option only.

2. These parts are used with older style ICU beds.

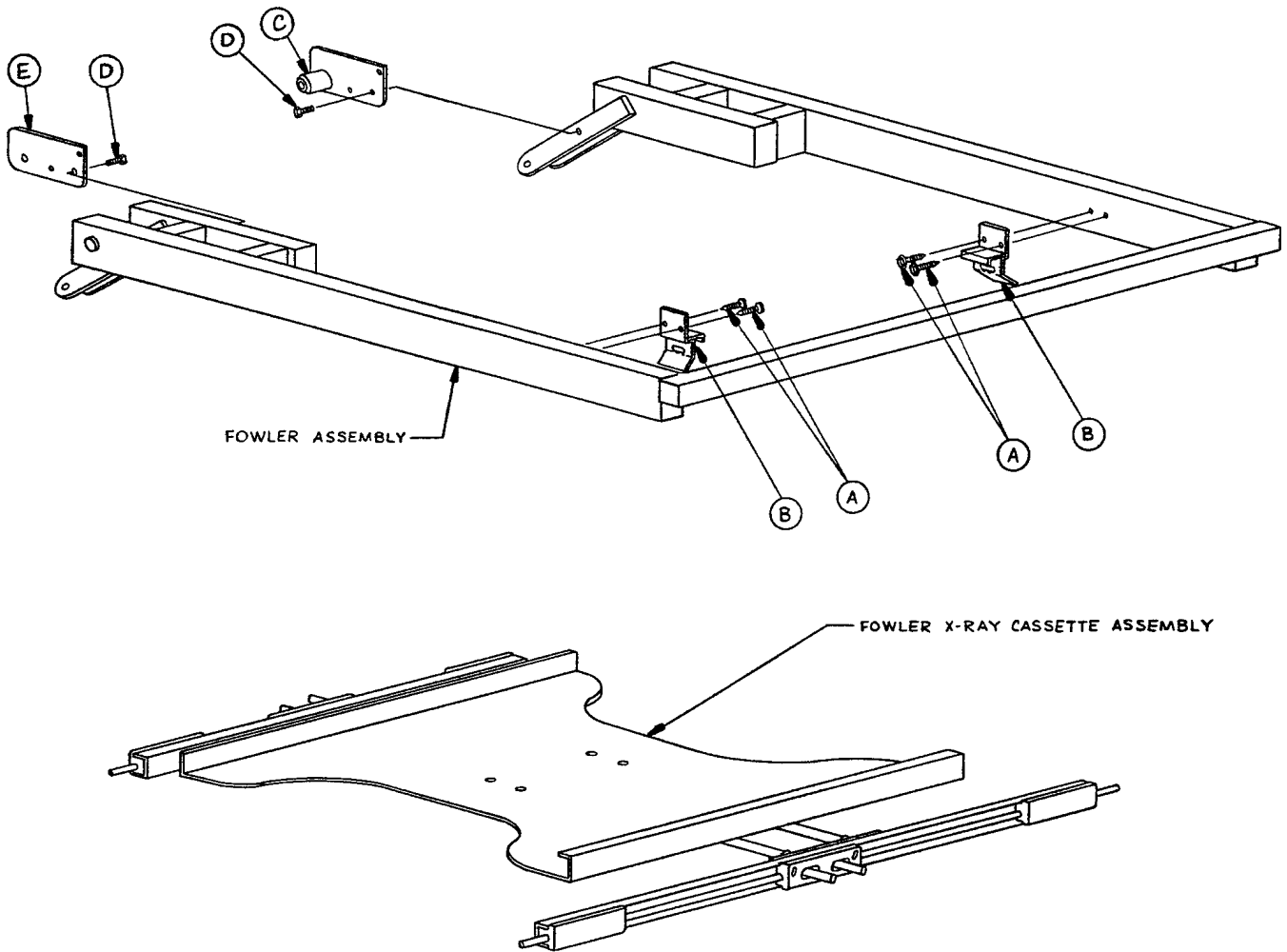
Item	Part No.	Part Name	Qty.
A	2020-72-521	Bag Holder Weldment, Lt.	1
B	2020-72-522	Bag Holder Weldment, Rt.	1
C	4-117	Soc. Hd. Cap Screw	4
D	16-16	Fiberlock Nut	4
E	2020-72-101	Instructions (not shown)	1
F	3-98	Hex Hd. Cap Screw	4
H	16-61	Locking Nut	4
J	2020-59-518	Spacer	4
K	11-280	Washer	4

2020-55-10 Optional Fowler X-Ray Cassette Assembly



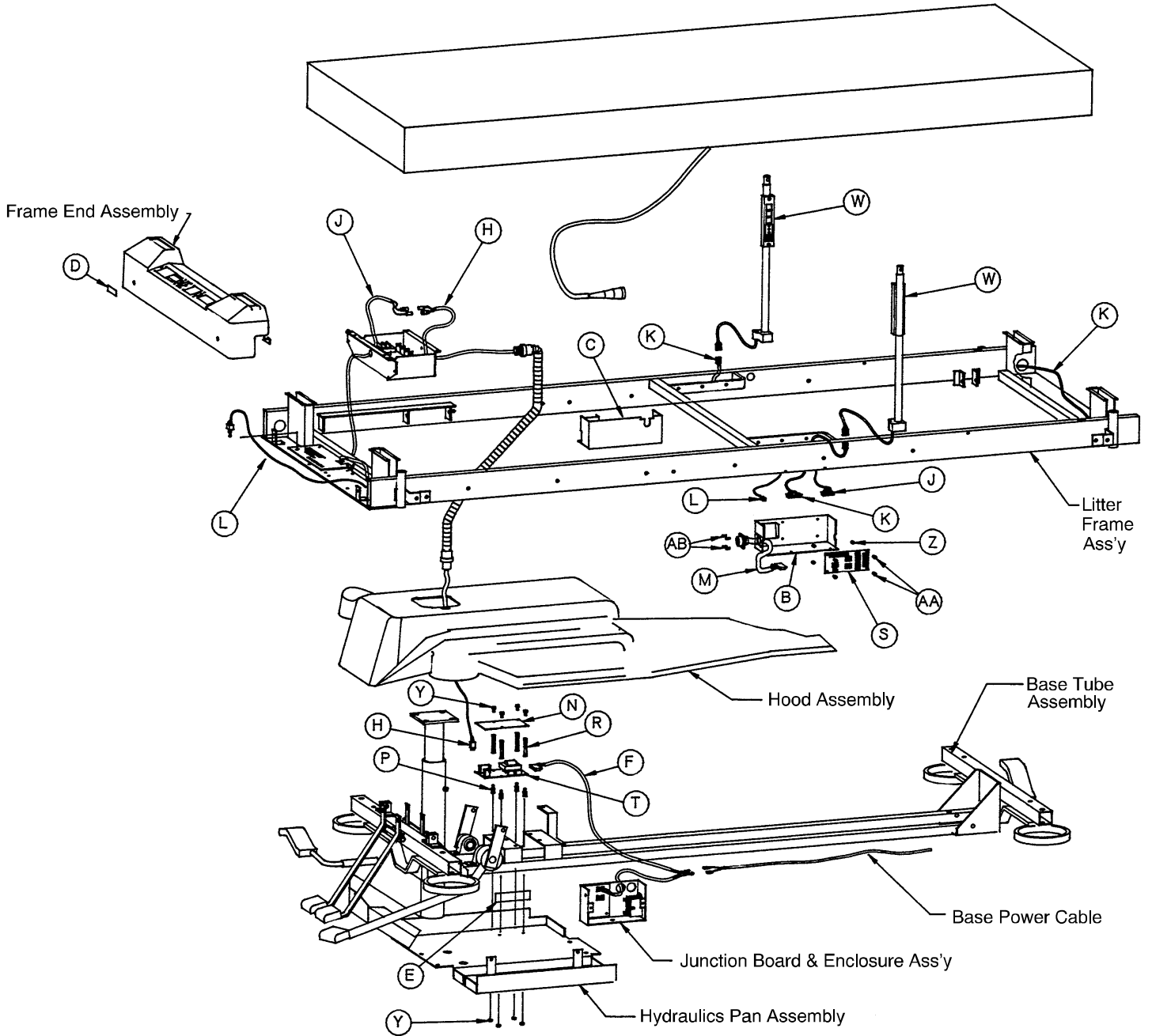
Item	Part No.	Part Name	Qty.	Item	Part No.	Part Name	Qty.
A	938-20-13	Cassette Holder	1	N	16-14	Self-Locking Nut	4
B	1-58	Flat Hd. Machine Screw	4	P	2-10	Round Hd. Mach. Screw	12
C	938-20-20	Channel Top Assembly	1	R	2020-55-19	Bearing Housing	1
D	11-63	Washer	4	S	926-23-62	Post Housing	6
E	16-16	Fiberlock Nut	4	T	2020-55-20	Actuating Rod	2
F	938-20-22	Channel Bottom	1	W	38-122	Compression Spring	2
H	24-34	Plastic Knob	1	Y	15-2	Hex Nut	12
J	2020-55-18	Siderail Tube	2	Z	926-23-64	Post	4
K	2020-55-15	Support Angle Weldment	2	AA	926-23-63	Actuating Rod	2
L	21-64	Set Screw	5	AB	926-23-65	Bearing Housing	1
M	2-31	Round Hd. Screw	4	AC	2020-58-28	Stop Collar	1

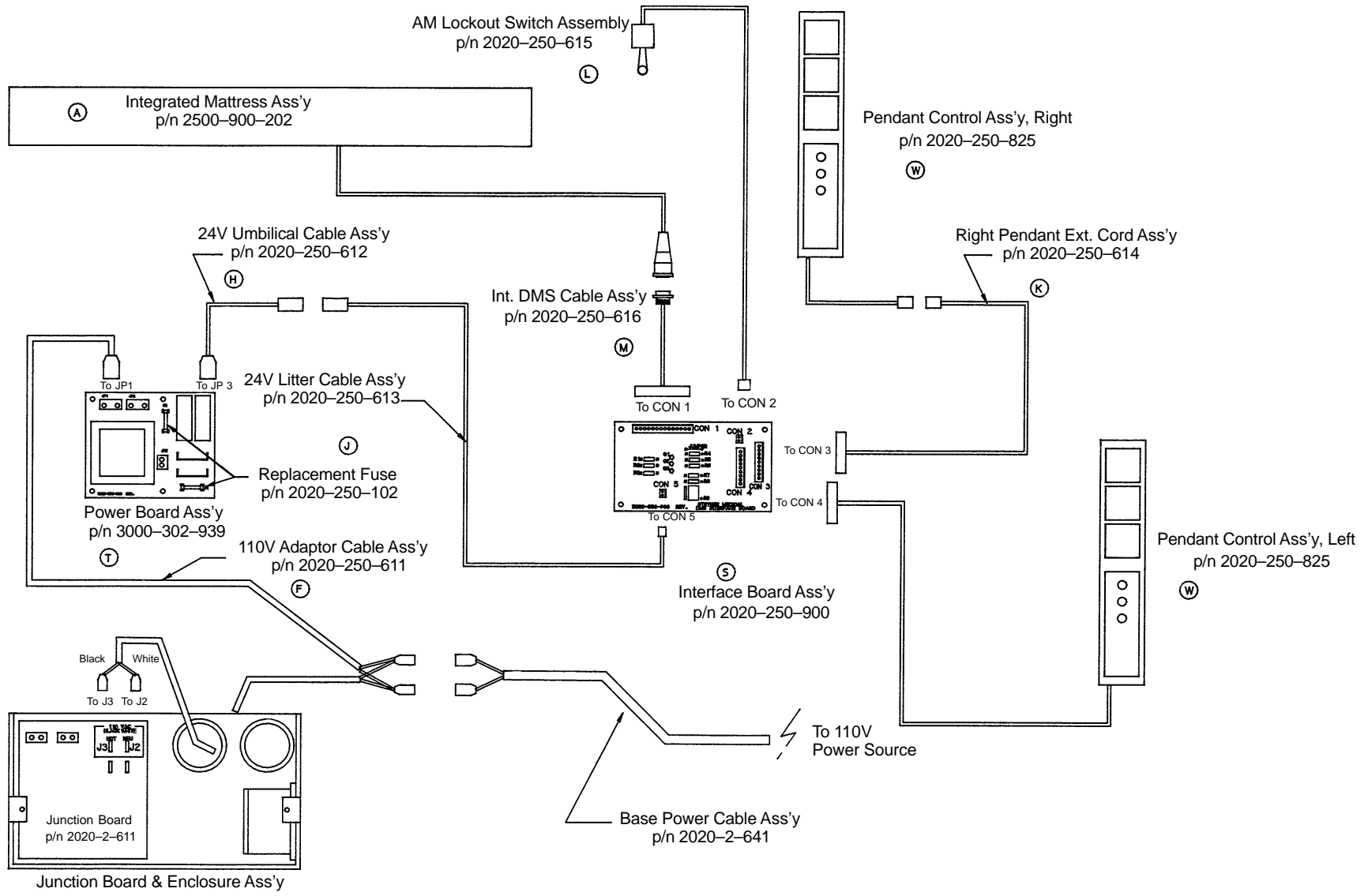
2020-54-11 Fowler X-Ray Cassette Retro-Fit Assembly



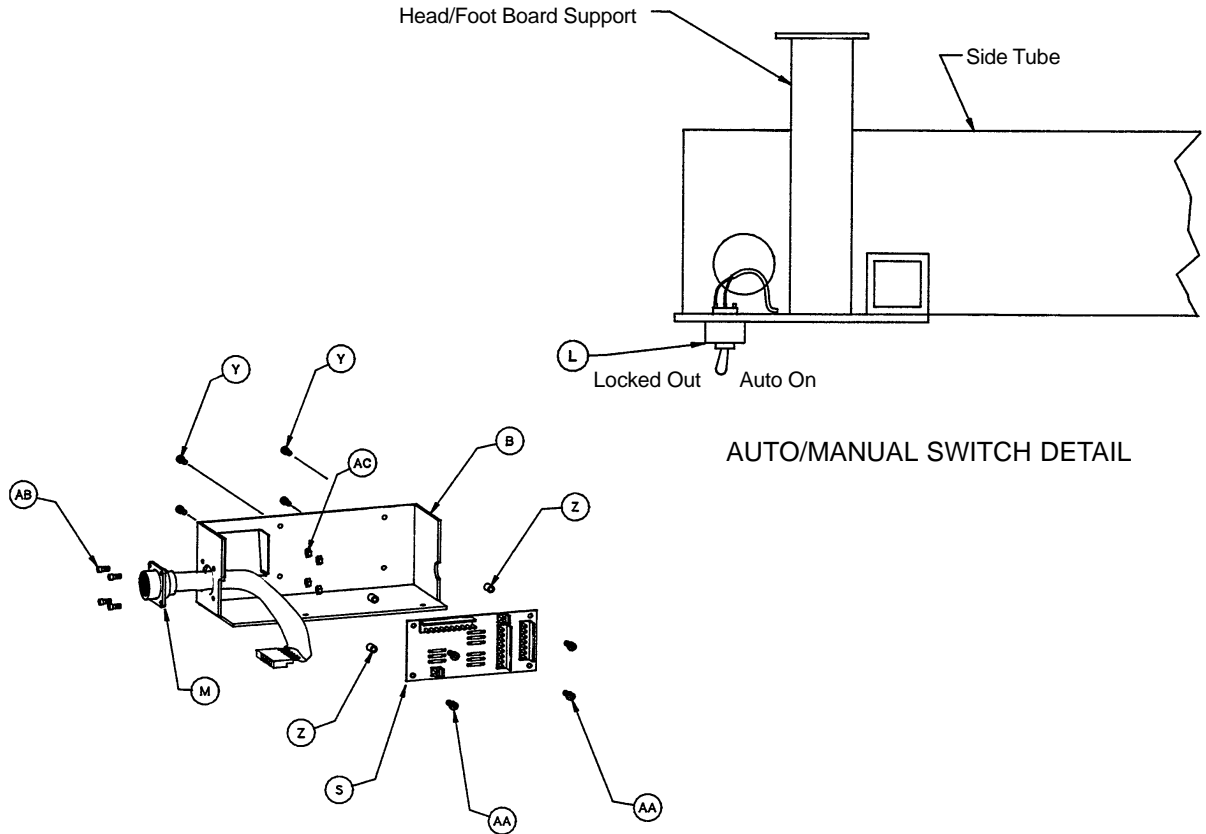
Item	Part No.	Part Name	Qty.
A	23-55	Self-Tapping Sheet Metal Screw	4
B	2020-55-21	Fowler Tab Assembly	2
C	2020-55-24	Pivot Assembly, Right	1
D	4-6	Soc. Hd. Cap Screw	2
E	2020-55-25	Pivot Assembly, Left	1
F	2020-54-101	X-Ray Cass. Drill Jig (not shown)	1

2020-250-410 Integrated Dynamic Mattress System Assembly





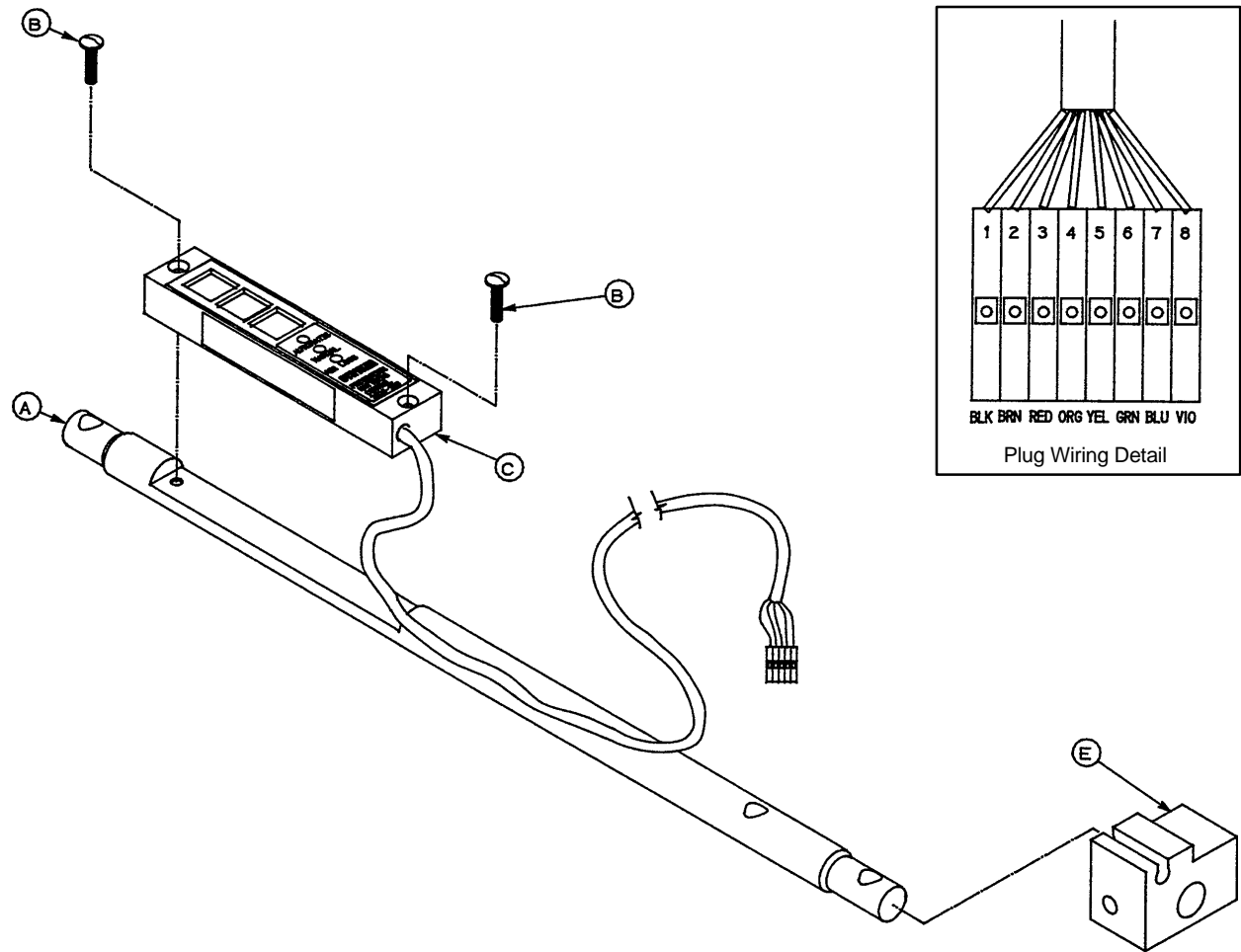
2020-250-410 Integrated Dynamic Mattress System Assembly



DETAIL OF INTERFACE BOARD MOUNTING

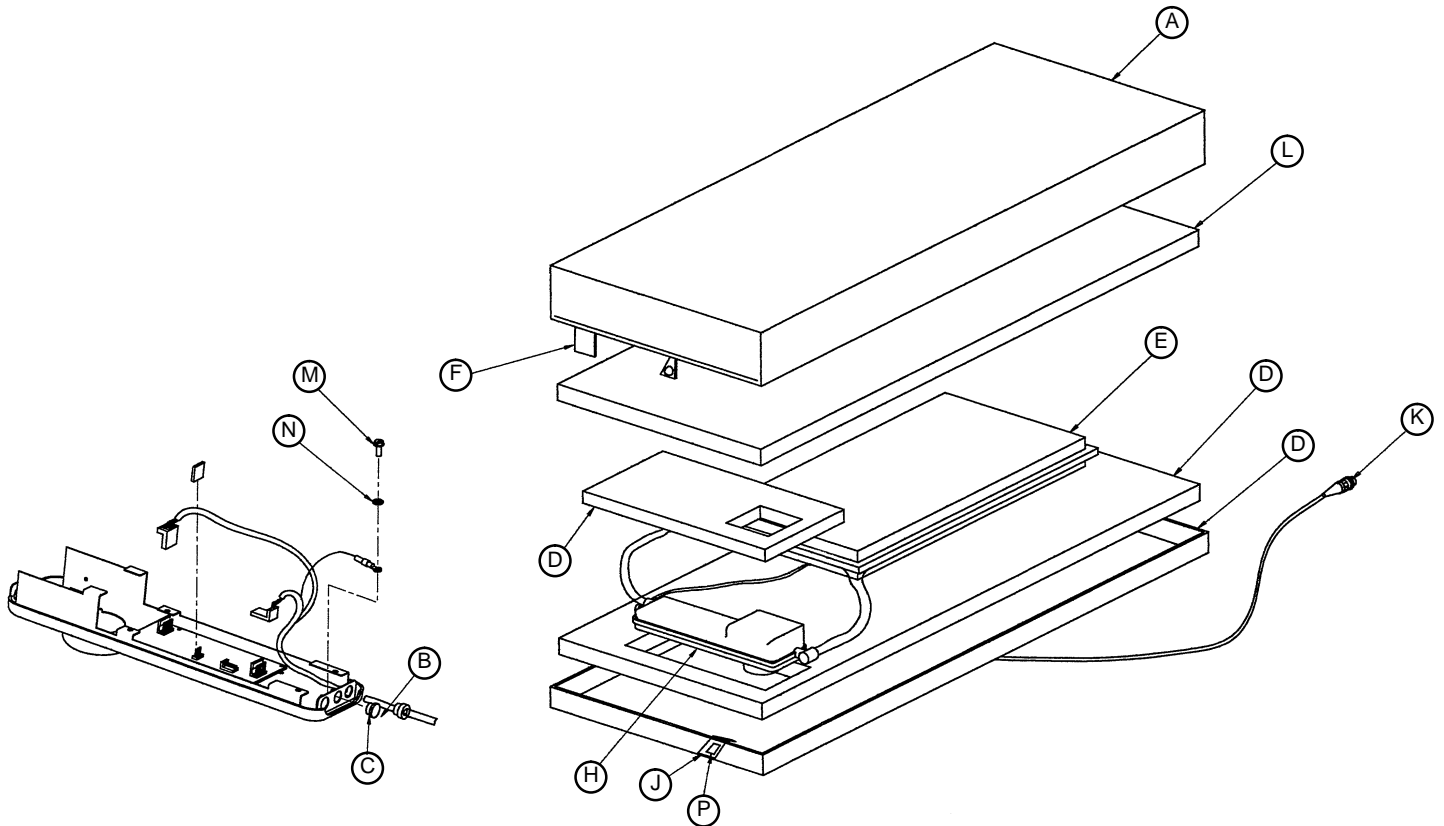
Item	Part No.	Part Name	Qty.
B	2020-250-522	Pocket Cover, Left	1
C	2020-250-524	Pocket Cover Ass'y, Rt.	1
D	2020-250-518	Label, Auto/Manual	1
E	2020-250-527	Label, Fuse/Warning	1
F	2020-250-611	110V Adaptor Cable Ass'y	1
H	2020-250-612	24V Umbilical Cable Ass'y	1
J	2020-250-613	24V Litter Cable Ass'y	1
K	2020-250-614	Rt. Pendant Ext. Cord Ass'y	1
L	2020-250-615	A/M Lockout Switch Ass'y	1
M	2020-250-616	Int. DMS Cable Assembly	1
N	2020-250-519	Power Board Cover	1
P	52-700	Spacer, Short	4
R	52-701	Spacer	4
S	2020-250-900	Interface Board Assembly	1
T	3000-302-939	Power Board Assembly	1
W	2020-250-825	Pendant Assembly	2
Y	4-118	Soc. Hd. Cap Screw	12
Z	52-91	Spacer	4
AA	52-89	Nylon Screw	4
AB	2-6	Rd. Hd. Mach. Screw	4
AC	16-23	Fiberlock Nut	4
AD	38-111	Cable Tie	6

2020-250-825 Dynamic Mattress System Cont. Spindle Ass'y



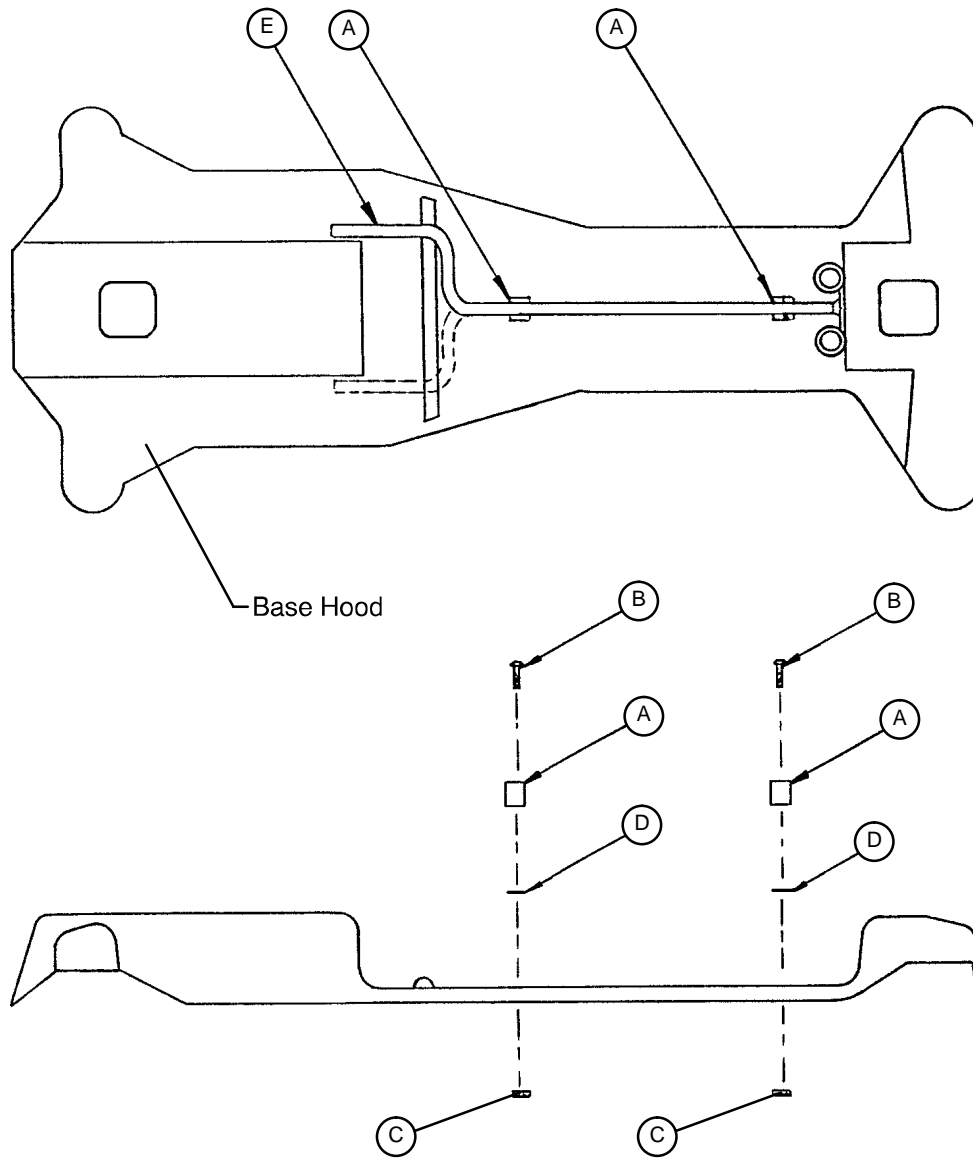
Item	Part No.	Part Name	Qty.
A	2020-88-851	Control Spindle	1
B	1-90	Truss Hd. Mach. Screw	2
C	2020-250-820	Int. DMS Control Ass'y	1
E	2020-90-860	Pivot, Slotted	1

2500-000-000 ICU Integrated DMS Mattress Assembly



Item	Part No.	Part Name	Qty.
A	2500-320-000	Mattress Cover, Nylon	1
	2500-320-100	Mattress Cover, Pink	1
	2500-320-200	Mattress Cover, Lectrolite	1
B	2500-900-23	Strain Relief	1
C	2500-900-28	Hole Plug	1
D	2500-201-210	Foam Base	1
E	2500-200-300	Air Bladder Assembly	1
F	2500-920-105	DMS I.D. Label	1
H	2500-400-123	Control Unit Assembly	1
J	2500-201-120	Material Label	1
K	2500-202-123	ICU Cable	1
L	2500-201-400	Topper	1
M	23-63	Machine Screw	1
N	12-30	Star Washer	1
P	2020-1-160	Serial Number Label	1

2020-23-510 Infusion Pump Mounting Assembly



Item	Part No.	Part Name	Qty.
A	958-1-224	I.V. Clip	2
B	4-57	Hex Soc. But. Hd. Cap Screw	2
C	16-27	Kep Nut	2
D	946-1-109	Adhesive Pad	2
E	2020-23-515	Infusion Pump Holder	1

Warranty

Limited Warranty:

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser that its products should be free from defects in material and workmanship for a period of one (1) year after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. Stryker warrants to the original purchaser that the frame and welds on its beds will be free from structural defects for as long as the original purchaser owns the bed. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to Stryker's factory. Any improper use or any alteration or repair by others in such manner as in Stryker's judgement affects the product materially and adversely shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

This statement constitutes Stryker's entire warranty with respect to the aforesaid equipment. STRYKER MAKES NO OTHER WARRANTY OR REPRESENTATION, EITHER EXPRESSED OR IMPLIED, EXCEPT AS SET FORTH HEREIN. THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL STRYKER BE LIABLE HEREUNDER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN ANY MANNER RELATED TO SALES OR USE OF ANY SUCH EQUIPMENT.

To Obtain Parts and Service:

Stryker products are supported by a nationwide network of dedicated Stryker Field Service Representatives. These representatives are factory trained, available locally, and carry a substantial spare parts inventory to minimize repair time. Simply call your local representative, or call Stryker Customer Service at (800) 327-0770.

Supplemental Warranty Coverage:

Stryker has developed a comprehensive program of extended warranty options designed to keep your equipment operating at peak performance at the same time it eliminates unexpected costs. We recommend that these programs be activated *before* the expiration of the new product warranty to eliminate the potential of additional equipment upgrade charges. Stryker offers the following Supplemental Warranties:

Extended (Parts and Labor)

- All replacement parts (excluding mattresses and consumable items)
- Labor and travel for *all* scheduled and unscheduled calls
- Annual Preventive Maintenance Inspections and repairs
- JCAHO paperwork for preventive maintenance
- Priority Emergency Service

Standard (Labor Only):

- Labor and travel for *all* scheduled and unscheduled calls
- Annual Preventive Maintenance Inspections and repairs
- JCAHO paperwork for preventive maintenance
- Priority Emergency Service

Basic (Parts Only):

- All replacement parts (excluding mattresses and consumable items)
- Priority Emergency Service

Please call your local representative, or call (800) 327-0770 for further information

Return Authorization:

Merchandise cannot be returned without approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned merchandise. Stryker reserves the right to charge shipping and restocking fees on returned items.

SPECIAL, MODIFIED, OR DISCONTINUED ITEMS NOT SUBJECT TO RETURN.

Damaged Merchandise:

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. **DO NOT ACCEPT DAMAGED SHIPMENTS UNLESS SUCH DAMAGE IS NOTED ON THE DELIVERY RECEIPT AT THE TIME OF RECEIPT.** Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claim will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the merchandise, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full.

Claims for any short shipment must be made within thirty (30) days of invoice.

International Warranty Clause:

This warranty reflects U.S. domestic policy. Warranty outside the U.S. may vary by country. Please contact your local Stryker Medical representative for additional information.

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Medical

6300 Sprinkle Road, Kalamazoo, MI 49001

DH 2/00 2020-1-152 REV K