



INSTRUCTIONS FOR USE

Rultract, Inc.

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Caution: Federal Law (USA) restricts this device to sale by or on the order of a physician.

Important

The Rultract® Skyhook Retractor is to be used according to the instructions for use. All personnel who handle Rultract® device must read these instructions prior to use of the instrument.

DEVICE DESCRIPTION

The Rultract® Skyhook Retractor is a manual surgical instrument system intended for use in surgery under sterile conditions. The Rultract® Skyhook Retractor System is designed as an omni-positioning retractor instrument to elevate, position, and stabilize surgical sites and tissue, and provide optimal surgical exposure and stability. The wide selection of base (table) arms and clamps, cross-member components, and propriety Rultract Skyhook Retractor assembly, make the Rultract product line suitable for any surgical specialty and application.

INTENDED USE

The Rultract® Skyhook Retractor assembly is a manual surgical instrument intended for use in surgery to facilitate access to surgical sites under sterile conditions by the direction of the surgeon.

CONTRAINDICATIONS

There are no known contraindications to Rultract® Skyhook Retractors.



Pemco Inc. 5663 Brecksville Rd.
Cleveland, Ohio 44131 U.S.A.

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PRECAUTIONS INDEX

CAUTION: Check and tighten all fasteners on the Ratchet/Rake Assembly. Failure to do so may result in components to loosen or disassemble during use (see p. 05).

CAUTION: Do not remove retaining Roll Pins *(4100P-18) and ***(4100P-16), (see p. 05).

CAUTION: Hand tighten Lock Knob and Spool Cap Nut securely (see p. 03).

CAUTION: Lock Knob MUST be inserted in a detent for secure placement of accessories (see p. 08, 20, 21 & 22).

CAUTION: All Lock Knobs on Tube Assembly MUST be aligned with a detent and securely tightened in closed position (see p. 23).

CAUTION: Improper placement of clamp on table rail over rail mounting bolt will cause misalignment of jaws and prevent secure attachment to table (see p. 12).

CAUTION: Disassemble unit prior to cleaning. The spool cap nut must be removed to separate the spool, spool cap, crank handle assembly and gearbox assembly (see page 33 & 34). *It is not necessary to remove fasteners or roll pins for proper cleaning and sterilization.* Further disassembly may void warranty (see p. 31).

CAUTION: Always allow rake plate to hang freely when winding Cable. The weight of Rake Plate allows for proper alignment of Cable on Spool. Failure to allow the Rake Plate to hang freely may cause the Cable to kink during winding. Leave approximately one to two inches of Cable exposed to prevent flexing of Cable on Cable Guide at insertion site.(see p. 30).

CAUTION: Always insert spool cap pin into the groove of the gearbox. Failure to do so may result in disassembly or damage to the unit (see p. 26, 30 & 33).

CAUTION: Always stabilize the single rake by hand to elevate and expose operative site. Failure to do so may result in rake slipping (see p. 07).

CAUTION: The Dull Tip Sternal Rake Plate is available as an accessory. The exact physiology of the sternum cannot be determined until the chest is opened. Therefore, the requesting institution assumes responsibility of having a Sharp Tip Sternal Rake Plate Assembly available at all times (see p. 06).

WARNINGS INDEX

USING OUTSIDE SERVICE VENDORS TO SERVICE/REPAIR YOUR RULTRACT RETRACTOR SYSTEM:

Rultract, Inc. is the ONLY authorized service center in the U.S.A.

Rultract® recommends factory service of your Skyhook Retractor System every 12-18 months. Rultract® recommends that the cable be changed every 12-18 months depending on frequency of use. Contact Rultract at service@rultract.com or 888-550-5695 to schedule service/repair or with questions concerning routine maintenance and service.

Using outside service vendors to service/repair your Rultract retractor system will release Rultract from all liability associated with the use of the system, void all current warranties, and could put the hospital, operating room staff and patient at risk.

Rultract is the only authorized service center for the Rultract Retractor System. Outside service vendors are not authorized to service or repair the Rultract Retractor System and do not have access to all Rultract OEM replacement parts.

Use only Rultract OEM parts and service as provided at the factory authorized Rultract service center. Failure to do so could put the hospital, operating room staff and patient at risk.

REPLACEMENT

Rultract recommends replacement of your Rultract Retractor after seven years, depending on usage, when properly maintained.

WARNING:

Any modification or alteration to a Rultract® product by user will void all warranties

Rultract[®] Skyhook Retractor Parts List

Part #	Part Description	Part #	Part Description
4100-IMR-6	Ratchet/Rake Assembly with Snap Clip	4100-59-07	Coupler Assembly
4100-IMR-41	Ratchet Assembly with Snap Clip	4100-59-07B	Coupler Bar
4100-02	Rake Plate Clamp	4100-59-08	Coupler Assembly
4100-341P	Snap Clip Pack w/ Cable	4100-59-08B	Coupler Bar
4100-03A	Cable Set Screw	4100-59-11	Coupler Assembly
4100-04	Ratchet Shaft	4100-59-11B	Coupler Bar
4100-06A	Take Up Spool	4100-59-03	Coupler Tube Assembly
4100-07B	Gearbox	4100-60	Minimally Invasive Rake Set
4100-08	One Piece Post	4100-60A	Minimally Invasive Rake
4100-11	Crank Arm	4100-60B	Minimally Invasive Rake
4100-12	Sternal Rake, Sharp Tip	4100-60C	Minimally Invasive Rake
4100-12D	Sternal Rake, Dull Tip	4100-60D	Minimally Invasive Rake
4100-12R	Sternal Ring Rake, Sharp Tip	4100-60AS	Pediatric Rake
4100-12RD	Sternal Ring Rake, Dull Tip	4100-60P-01	Pediatric Rake
4100-15	Spool Cap Nut	4100-60P-02	Pediatric Rake
4100-15A	Spool Cap	4100-60P-03	Pediatric Rake
4100-17	Crank Handle Sleeve	4100-60P-04	Pediatric Rake
4100-18	Crank Handle Screw	4100-60P-05	Pediatric Rake
4100-19	Cable Access Plate	4100-60P-06	Pediatric Rake
4100-20	Cable	4100-70	Xiphoid Rake
4100-20SP	Cable Replacement Single Pack	4100-71	Xiphoid Rake
4100-20P	Cable Replacement 3 Pack	4100-72	Xiphoid Rake
4100-28C	Square Tip Double Bend Bottom Post	4100-73	Xiphoid Rake
4100-28CP	Square Tip Offset Bottom Post	4100-74	Xiphoid Rake
4100-28CS	Spline Tip Double Bend Bottom Post	4100-75	Xiphoid Rake
4100-32A	Square Top Post, Standard Length	4100-77L	Sternal Rake, Large
4100-32AL	Square Top Post, Extended Length	4100-77M	Sternal Rake, Medium
4100-32ALS	Spline Top Post, Extended Length	4100-77S	Sternal Rake, Small
4100-32AP	Square Offset Top Post	4100P-05	Ratchet Cover Plate Screw
4100-32AS	Spline Top Post, Standard Length	4100P-08	Crank Arm Screw
4100-32AST	Spline Tilting Top Post	4100P-11	Cable Access Plate Screw
4100-32AT	Square Tilting Top Post	4100P-12	Large Allen Wrench
4100-32C	Square Tip Bottom Post with Collar (Round Base)	4100P-13	Small Allen Wrench
4100-32CS	Spline Tip Bottom Post with Collar (Square Base)	4100P-25	Rotating Extender Bar Spring
4100-32ST-06A	Knob Assembly	4100P-26	Tilting Post Spring
4100-33	Rake Clamp Screw	4110	Round Base Combination Clamp
4100-33P	Rake Clamp Screw Pack	4110-03A	Cross Handle Assembly
4100-39R	Riser Extender Bar with Cross Square	4110-04A	Wing Handle Assembly
4100-39S	Extender Bar with Cross Square	4110-17	Lower Jaw Assembly
4100-39TS	Rotating Extender Bar with Cross Square	4110P-05	Clamp Spring
4100-39TS-07A	Knob Assembly	4110P-12	Handle Retaining Screw
4100-50	Gearbox Assembly	4110P-14	Combination Clamp Spring (2019 and newer)
4100-51	Spool Cap Assembly	4110P-15	Combination Clamp Shoulder Bolt
4100-52	Sternal Rake Plate Assembly, Sharp Tip	4110S	Square Base Combination Clamp
4100-52D	Sternal Rake Plate Assembly, Dull Tip	4150	Square Tip, Double Bend Post/Clamp, Scrub Applied
4100-52RDH	Lift Spreader Plate Assembly, Hook	4150S	Spline Tip, Double Bend Post/Clamp, Scrub Applied
4100-52RDL	Lift Spreader Plate Assembly, Large	4160	Square Tip, Double Bend Post/Clamp, Circulator Applied
4100-52RDM	Lift Spreader Plate Assembly, Medium	4160-09A	5 Point Handle Assembly 10-TPI
4100-52RDS	Lift Spreader Plate Assembly, Small	4160-09B	5 Point Handle Assembly 8-TPI
4100-53	Crank Handle Assembly with Shaft	4160S	Spline Tip, Double Bend Post/Clamp, Circulator Applied
4100-54	Ratchet Cover Plate Assembly		

PROPER SERVICING AND REPAIR OF YOUR RULTRACT RETRACTOR SYSTEM

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HANDLING OF RULTRACT® RETRACTOR CABLE

The Rultract Retractor System uses a specific cable which holds the Snap Clip and Rake Plate. If the proper OEM pieces are not used and the pieces are not serviced in regular intervals by a factory trained technician, they could separate during surgery possibly causing serious injury.

Cables worn or damaged through mishandling must be replaced with a new Rultract® Cable. Do not attempt to repair, cut, alter or modify the Cable in any way. **Cutting and reattaching the Cable will cause it to weaken and fray. This will result in failure during use.**

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