

# **PRODUCT MANUAL**









# In The Ditch Towing PRODUCTS

A Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.





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### WARRANTY INFORMATION

### Limited Warranty

In The Ditch Towing Products (also referred to herein as ITD) warrants to the original purchaser that new ITD manufactured goods will be free from defects in material and workmanship for a period of twelve (12) months from the date placed in service. The purchaser must promptly notify ITD in writing of any failure in material or workmanship. In no event shall ITD accept such notification later than twelve (12) months from the date placed in service.

ITD's obligation under this warranty, statutory or otherwise, is limited to the repair or replacement at the ITD factory, or at a point designated by ITD, of such part or parts as shall appear upon inspection by ITD to be defective in material or workmanship. This warranty is not transferable. This warranty does not obligate ITD to bear the cost of labor or transportation charges in connection with the repair or replacement of any part(s) found to be defective, nor shall it apply to a product upon which repairs or alterations have been made unless such repairs or alterations were authorized by ITD.

Except as expressly set forth in this warranty, ITD makes no other warranty, express or implied, and hereby disclaims all other warranties including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. ITD shall in no event be liable for any claims for downtime, loss of profits or goodwill, or any claims for other special, incidental, indirect, or consequential damages concerning or relating to any product or parts, whether based on negligence, strict liability, breach of contract, breach of warranty, misrepresentation, or any other legal theory, regardless of whether the loss resulted from any general or particular requirement which ITD knew or had reason to know about at the time of sale.

ITD makes no warranty, express or implied, as to the finished products manufactured or supplied by another manufacturer and supplied by ITD to purchaser, including, but not limited to, any vehicle to which an ITD product may be affixed or any accessories, and ITD expressly disclaims any implied warranties of merchantability and fitness for a particular purpose as to such equipment or products. This language shall in no way affect or diminish the rights of the purchaser to rely on such warranties as are extended by such manufacturers or supplies. ITD shall, to the extent permitted under applicable law, pass on to the purchaser such manufacturer's or seller's warranty.

The customer must obtain and present a written authorization number from ITD prior to any work beginning, and the customer agrees to bear all costs. Please note: Merchandise covered by a manufacturer's warranty must be sent directly to the manufacturer for replacement or repair. ITD, whose policy is one of continuous improvement, reserves the right to improve its products through changes in design or materials as it may deem desirable without being obligated to incorporate such changes in any products previously sold.

This warranty is not intended to cover and shall not apply or include the following items, which are set forth by way of example only: normal deterioration of trim, paint, lettering, appearance of items due to wear or exposure to weather, road conditions, road treatments, etc.; any damage or defect due to accident, misuse, abuse, operation exceeding rated loads, improper or unauthorized repairs, failure to provide reasonable and necessary maintenance, or uses in respect of which the equipment was not designed or intended; alterations or modifications that affect performance, operations, or reliability.

It is expressly understood that ITD makes no implied or express warranty that ITD manufactured goods shall be fit for the purpose of lifting or moving people or for any other improper use. Field modification of this unit without the advice and written consent of the ITD Engineering Department will void all warranties and any guarantees pertaining to both purchased components used in the manufacture of this unit, as well as structurally fabricated parts supplied by ITD. Use of other than factory or factory authorized parts will render the warranty void.

#### Notice to Owner or User

It is very important that you properly fill out your product registration form at <u>registration.intheditch.com</u> to register your equipment. By submitting the information within 15 days of your purchase, your warranty will be validated, ensuring that your equipment will be protected subject to the terms and conditions set out herein. In the event we need to contact you concerning your registered equipment, Product Updates, Service Bulletins, or Product Recalls, the information you have provided on the product registration form will ensure your immediate notification. Do your part and let us help you by filling out your product registration form.

#### **Installation Guidelines**

Due to variances in manufacturers' wrecker bodies, truck bodies and mounting surfaces, ITD cannot provide explicit mounting requirements for every mounting option. These instructions are to serve only as a guideline. Final installation requirements are left to the discretion of a qualified installer.

### **Assumption of Risk**

Towing and recovery (collectively "Towing") is by nature an inherently dangerous activity. As a consequence, towing operators assume the risk of serious injury or death. ITD products are only intended to be used solely by towing operators who have the requisite training and experience who not only understand the proper use of the product/s but also fully understand all risks associated with towing.

If you do not have the requisite experience and training as a towing operator DO NOT USE these products.





### WARRANTY INFORMATION

### Inspection

- ITD requires that each operator of a truck or transport vehicle perform a detailed circle check before and after each use of the truck or transport vehicle. This inspection must include the power unit, the towing unit, and all items installed on the unit.
- Do not take chances with your life or other people's lives. Make sure all items are secured and in safe working order.
- Always inspect products for any signs of paint cracking, metal fatigue or premature wear.
- Maintain a visual inspection along with grabbing the products and wiggling or pulling on it to make sure there is no way anything can become dislodged from its mount.
- Remove from service immediately if repairs are needed. Do not take chances.

### Paint, Powder Coated and Polished Finishes:

The ITD warranty does not cover coatings or finishes, of powder coated products, galvanized products, zinc plated products, bare aluminum products, polished or non-polished stainless steel products or finishes. This includes, but is not limited to, scratches, peeling, chipping, hazing, dulling of finish or surface.

#### **Modifications to ITD Products**

- DO NOT modify or tamper with any ITD Product. Doing so will void any applicable warranty and may result in serious injury or death.
- Warranties will be voided if any ITD Product is modified or tampered with.

#### Securement

- The driver/operator must verify that all hardware is secure and tight. This includes, but is not limited to, mounting hardware and retaining systems.
- It is the driver /operator's responsibility to ensure that nothing can come loose from any part of the truck or transport vehicle or the vehicle being towed. It is the operator's responsibility to make sure that all items are in good working order and are properly secured.
- · Only a qualified installer should mount ITD equipment. It is the installer's responsibility to ensure mounts are secure.
- It is the operator's responsibility to ensure his or her load is secured properly to the mounts.
- ITD recommends taking this approach to load/product securement:
  - 1. Imagine if you took your truck and turned it upside down. Nothing should fall out of or off of the truck.
  - 2. Now imagine if you stood the truck on the end where the front bumper was facing straight up into the sky. Nothing should fall out of or off the truck.
  - 3. Now imagine the rear bumper was facing the sky. Nothing should fall out of or off of the truck.

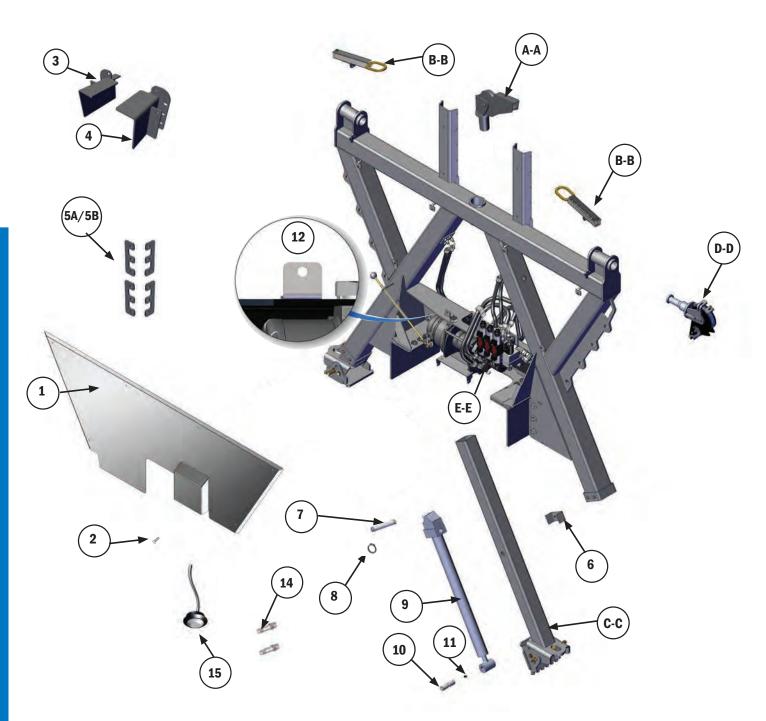
### Mix and Matching of different Manufacturer's Products

- Only use In The Ditch brand mounts with In The Ditch Products.
- Only use In The Ditch brand replacement parts for In The Ditch brand products.
- Failure to do so may result in voiding any applicable warranty and serious bodily injury or death.

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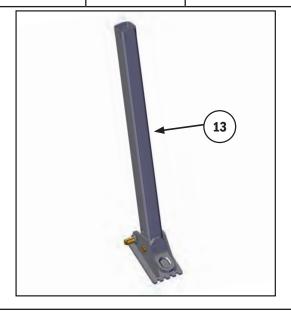
Parts listed with leaders are found on pages 10 - 13

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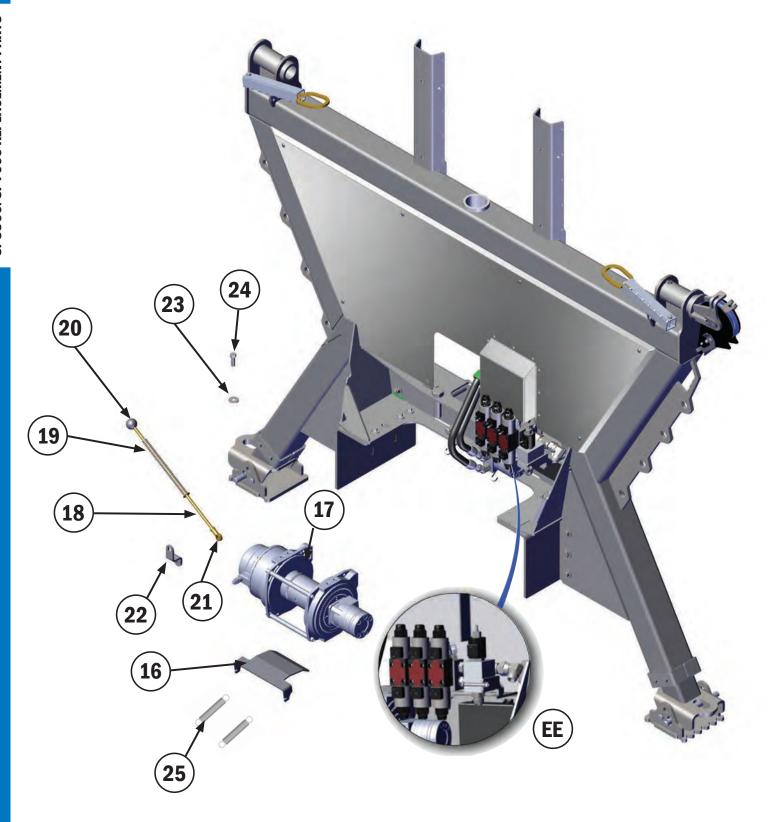
Item #	Part #	Description
NOT SHOWN	ITD1275	Polished Stainless Steel Rear Accent Panel SP8000™
NOT SHOWN	ITD4523	Polished Stainless Steel Rear Accent Panel SP8500™ & SP9000™ (Includes #15)
1	ITD4712	Polished Stainless Steel Rear Accent Panel (with Integrated Controls, Includes #15)
2	Hardware	SS 1/4"-20 x 3/4" Truss Head Screw
3	ITD4534	L. H. Mounting Base - SP9
4	ITD4540	R. H. Mounting Base - SP9
5a	ITD4724	SP9000™ Nut Plate
5b	ITD4899	SP8500™ Nut Plate
6	ITD4119	SP9000™ Lower Leg Shim
7	ITD4673	SP9000™ Upper Cylinder Pin
8	ITD7069	1" Snap Ring
9	ITD4189	SP9000™ Leg Cylinder
10	ITD4117	SP9000™ Lower Cylinder Pin
11	Hardware	3/8" Knurled Set Screw
12	ITD4696	Bolt On SS Tab Mount
13	Discontinued	SP8000 <sup>™</sup> Inner Leg Assembly (Discontinued, replaced with ITD4138 pg 11)
14	ITD4497	Long Hydraulic Fitting
15	Hardware	1-1/4" White LED Marker Light











Parts listed with leaders are found on pages 10 - 13





Item#	Part #	Description
16	ITD4141	SP8500™& SP9000™ Tensioner Plate
17	ITD4188	9,000lb Hydraulic Winch
18	ITD4072	Free Spool Rod (w/ E-Clip and 3/8" Fine Nut (2) and 3/8"Coarse Nut)
19	ITD4096	Free Spool Spring
20	ITD7044	Pull Knob - 3/8" -16
21	ITD4093	Free Spool Rod End
NOT SHOWN	Hardware	3/8" 24 fine Thread Nut
22	ITD4162	Winch Offset Lever
23	Hardware	M12 x 24mm Washer
24	Hardware	M12-1.75X40mm Bolt
NOT SHOWN	ITD4094	3/8" X100 Wire Rope (Steel Core)
25	ITD4095	Winch Tensioner Springs

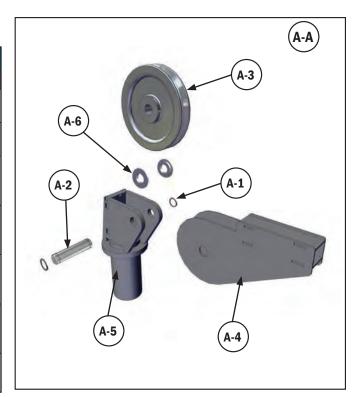
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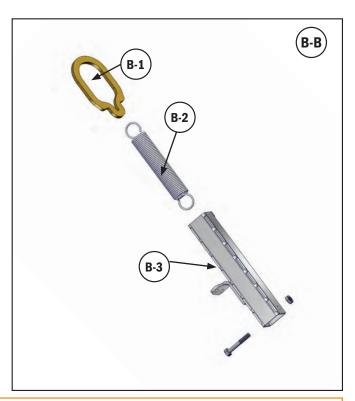
# **CENTER RECOVERY BOOM HEAD**

Item #	Part #	Description
A-A	ITD4044	Center Recovery Boom Head
A-1	ITD7074	3/4" Snap Ring
A-2	ITD4054	Center Recovery Boom Head Sheave Pin
A-3	ITD4053	SP8500 <sup>™</sup> - SP9000 <sup>™</sup> - SP12,000 <sup>™</sup> Sheave
A-4	ITD4050	Center Recovery Boom Head Wire Rope Guide
A-5	ITD4045	Center Recovery Boom Head Main Body
A-6	ITD4757	3/4" Nylon Bushing



## **SPRING TUBE**

Item#	Part #	Description
В-В	ITD4192 (R or L)	Spring Tube Tie Back Assembly
B-1	ITD4066	Pear Link
B-2	ITD4067	Spring Tube Replacement Spring
B-3	ITD4824	Replacement Spring Tube Body SP8500™ - SP9000™- SP12,000™

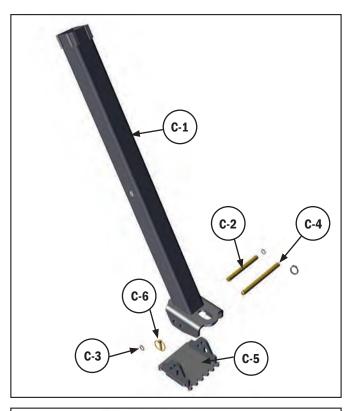


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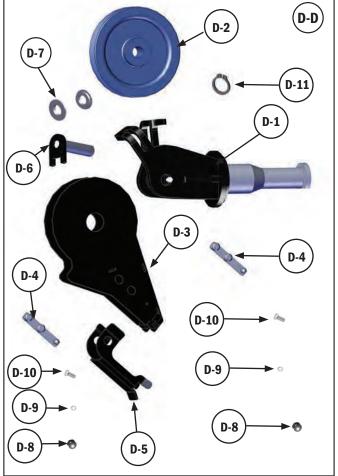


Item#	Part #	Description
C-C	ITD4138	Complete Inner Leg Assembly (No Cylinder)
C-1	ITD4661	SP8500™& SP9000™ Inner Leg
C-2	ITD4140	SP8500™& SP9000™ Foot Pivot Pin
C-3	ITD7074	3/4" Snap Ring
C-4	ITD4097	SP8500™& SP9000™ Removable Foot Pin
C-5	ITD4128	SP8500™& SP9000™ Stabilizer Foot
C-6	ITD7099	5/16" Lynch Pin



# **OUTER RECOVERY BOOM HEAD**

Item #	Part#	Description
D-D	ITD4229	Outer Recovery Boom Head Assembly
D-1	ITD4212	Outer Recovery Boom Head Main Body
D-2	ITD4053	SP8500 <sup>™</sup> - SP9000 <sup>™</sup> - SP12,000 <sup>™</sup> Sheave
D-3	ITD4224	Outer Recovery Boom Head Wire Rope Guide
D-4	ITD4236	Snap Button Assembly
D-5	ITD4223	Wire Rope Guide Cover
D-6	ITD4227	Outer Recovery Boom Head Sheave Pin
D-7	ITD4757	3/4" Nylon Bushing
D-8	Hardware	#6 SS Acorn Nut
D-9	Hardware	#6 SS Flat Washer
D-10	Hardware	#6-32 X 5/16" Hex SS Screw
D-11	ITD7074	3/4" Snap Ring





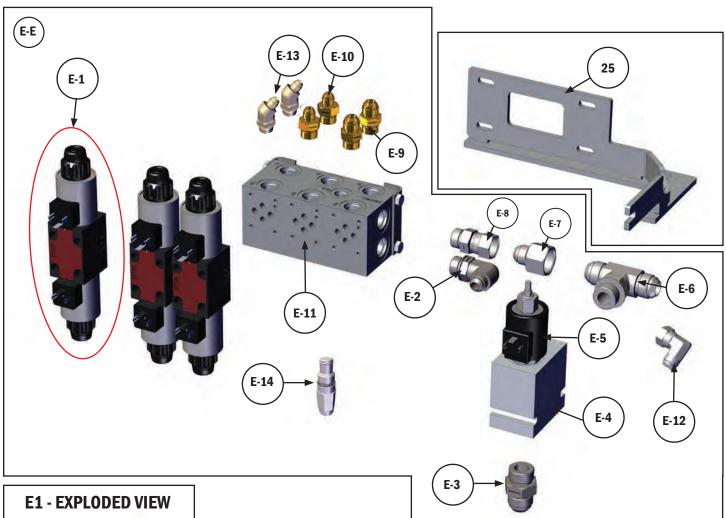


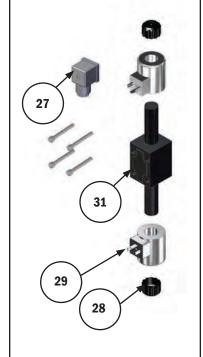
# **VALVE ASSEMBLY**

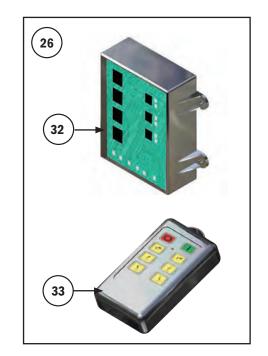
Item #	Part#	Description
E-E	ITD4164	SP8500 <sup>™</sup> - SP9000 <sup>™</sup> - SP12,000 <sup>™</sup> Valve Body Kit (12 Volt) (Includes #'s : E- 1 to E - 14)
E-1	ITD4170	D03 Valve Assembly (Cylinder)
E-2	ITD4685	#12 JIC 90° Return to Tank
E-3	ITD4683	#12 JIC Diverter Valve to Beyond
E-4	ITD4163	Diverter Valve without Coil
E-5	ITD4163S	Diverter Valve Coil Only
E-6	ITD4686	#12 JIC Tee
E-7	ITD4687	#12 + #10 Reducer
E-8	ITD4688	#10 + #8 Swivel Reducer
E-9	ITD4689	#8 JIC Manifold to Winch Lines
E-10	ITD4690	#6 JIC Manifold to Cylinder Lines
E-11	ITD4187	Valve Manifold Assembly
E-12	ITD4776	90° JIC #12
E-13	ITD4780	45° JIC #6 + #8
E-14	ITD4682	Relief Valve
25	ITD4492	Bolt-On Valve Body Bracket Assembly
26	ITD4232	Wireless - Receiver & Transmitter with Harness KIT (Contains #32 and #33)
27	ITD4676	Electrical Connector for Coil (w/ Gasket)
28	ITD4677	Rubber Cap
29	ITD4703	12 Volt Coil
30a	ITD4716	SP9000™ Hose Kit
30b	ITD4909	SP8500™ Hose Kit
31	ITD4171	DO3 Valve Solenoid Only
32	ITD4692	Wireless - Receiver with Harness
33	ITD4460	Wireless - Transmitter









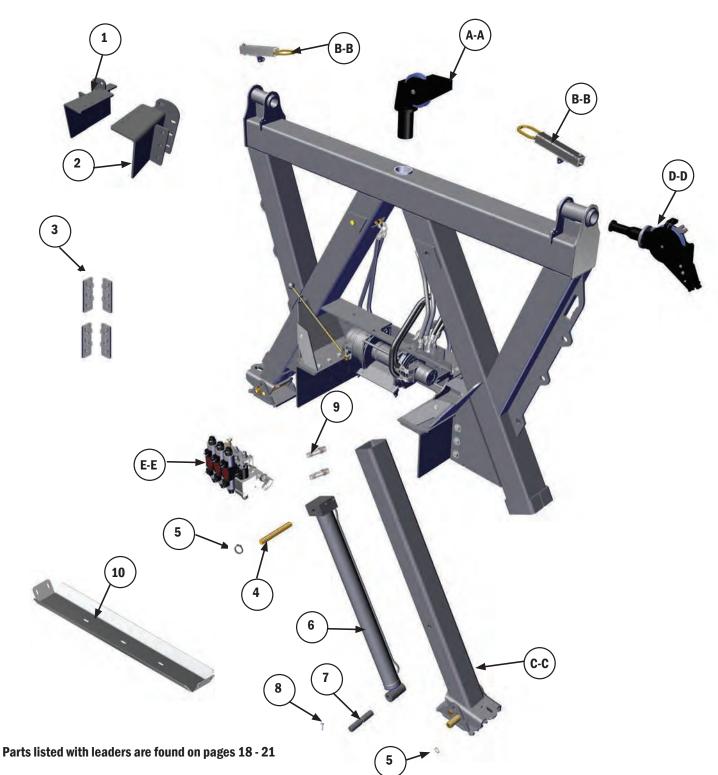








# **PARTS AND ACCESSORIES**



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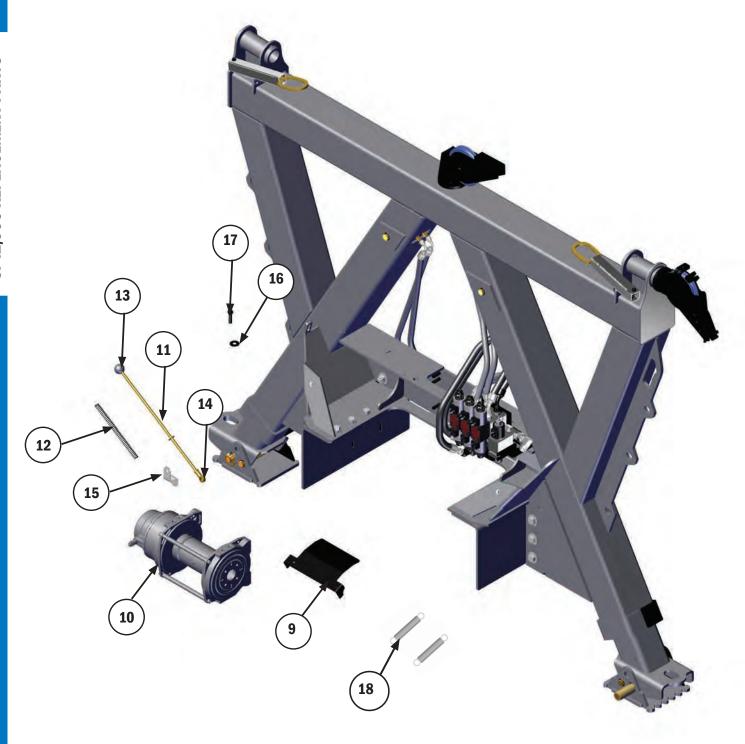


Item #	Part#	Description
1	ITD4769-L	L.H. Mounting Base
2	ITD4769-R	R.H. Mounting Base
3	ITD4773	SP12 Nut Plate
4	ITD4014	SP12,000™ Upper Cylinder Pin
5	ITD7069	1" Snap Ring
6	ITD4061	SP12,000™ Leg Cylinder
7	ITD4007	SP12,000™ Lower Cylinder Pin
8	Hardware	3/8" Knurled Set Screw
9	ITD4497	Long Hydraulic Fittings
10	ITD4756	SP12,000™ Aluminum Tray

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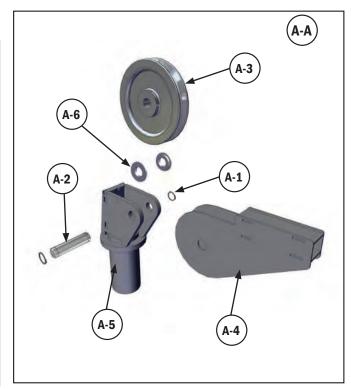
Item #	Part #	Description
9	ITD4038	SP12,000™ Tensioner Plate
10	ITD4062	12,000lb Hydraulic Winch
11	ITD4072	Free Spool Rod (w/ E-Clip and 3/8" Fine Nut (2) and 3/8"Coarse Nut)
12	ITD4096	Free Spool Spring
13	ITD7044	Pull Knob - 3/8" -16
14	ITD4093	Free Spool Rod End
N/A	Hardware	3/8" 24 fine Thread Nut
15	ITD4162	Winch Offset Lever
16	Hardware	M12 x 24mm Washer
17	Hardware	M12-1.75X40mm Bolt
N/A	ITD4063	7/16" X100 Wire Rope (Steel Core)
18	ITD4095	Winch Tensioner Spring

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# **CENTER RECOVERY BOOM HEAD**

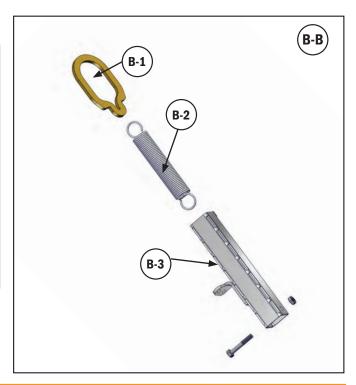
Item #	Part #	Description
A-A	ITD4044	Center Recovery Boom Head
A-1	ITD7074	3/4" Snap Ring
A-2	ITD4054	Center Boom Head Sheave Pin
A-3	ITD4053	SP8500 <sup>™</sup> - SP9000 <sup>™</sup> - SP12,000 <sup>™</sup> Sheave
A-4	ITD4050	Center Boom Head Wire Rope Guide
A-5	ITD4045	Center Boom Head Main Body
A-6	ITD4757	3/4" Nylon Bushing



# **SPRING TUBE**

SP12,000 REPLACEMENT PARTS

Item #	Part #	Description
B-B	ITD4192 (R or L)	Spring Tube Tie Back Assembly
B-1	ITD4066	Pear Link
B-2	ITD4067	Spring Tube Replacement Spring
B-3	ITD4824	Replacement Spring Tube Body SP8500™- SP9000™ - SP12,000™



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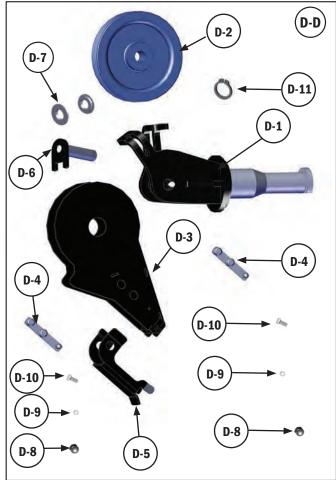
# **INNER LEG ASSEMBLY**

INNER LEG ASSEMBLI			
Item #	Part #	Description	
C-C	ITD4028	Complete Inner Leg Assembly (No Cylinder)	
C-1	ITD4029	SP12,000™ Inner Leg (No Foot)	
C-2	ITD4034	SP12,000™ Foot Pivot Pin	
C-3	ITD7074	3/4" Snap Ring	
C-4	ITD4040	SP12,000™ Removable Foot Pin	
C-5	ITD4035	SP12,000™ Stabilizer Foot	
C-6	ITD7099	5/16" Lynch Pin	



# **OUTER RECOVERY BOOM HEAD**

Item#	Part #	Description
D-D	ITD4229	Outer Recovery Boom Head Assembly
D-1	ITD4212	Outer Recovery Boom Head Main Body
D-2	ITD4053	SP8500 <sup>™</sup> - SP9000 <sup>™</sup> - SP12,000 <sup>™</sup> Sheave
D-3	ITD4224	Outer Recovery Boom Head Wire Rope Guide
D-4	ITD4236	Snap Button Assembly
D-5	ITD4223	Wire Rope Guide Cover
D-6	ITD4227	Outer Recovery Boom Head Sheave Pin
D-7	ITD4757	3/4" Nylon Bushing
D-8	Hardware	#6 SS Acorn Nut
D-9	Hardware	#6 SS Flat Washer
D-10	Hardware	#6-32 X 5/16" Hex SS Screw
D-11	ITD7074	3/4" Snap Ring





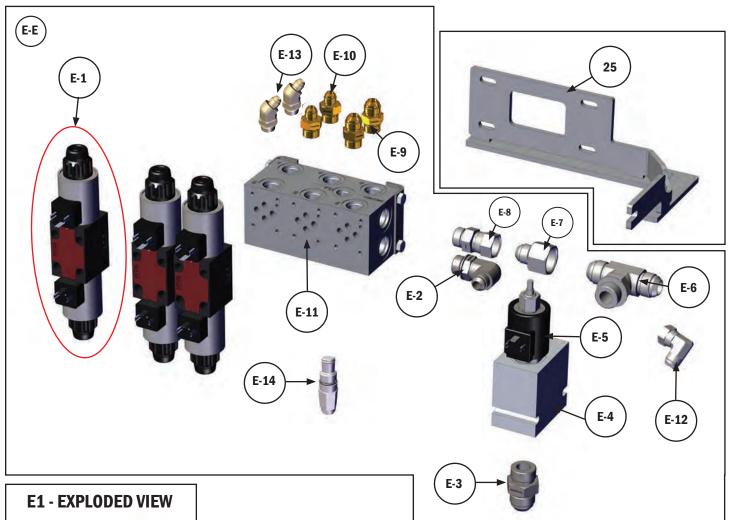


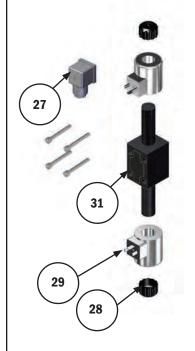
# **VALVE ASSEMBLY**

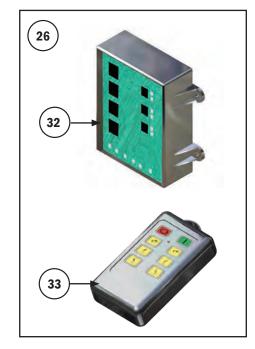
Item #	Part#	Description
E-E	ITD4164	SP8500™ - SP9000™ - SP12,000™ Valve Body Kit (12 Volt) (Includes #'s : E - 1 to E - 14)
E-1	ITD4170	D03 Valve Assembly (Cylinder)
E-2	ITD4685	#12 JIC 90° Return to Tank
E-3	ITD4683	#12 JIC Diverter Valve to Beyond
E-4	ITD4163	Diverter Valve without Coil
E-5	ITD4163S	Diverter Valve Coil Only
E-6	ITD4686	#12 JIC Tee
E-7	ITD4687	#12 + #10 Reducer
E-8	ITD4688	#10 + #8 Swivel Reducer
E-9	ITD4689	#8 JIC Manifold to Winch Lines
E-10	ITD4690	#6 JIC Manifold to Cylinder Lines
E-11	ITD4187	Valve Manifold Assembly
E-12	ITD4776	90° JIC #12
E-13	ITD4780	45° JIC #6 + #8
E-14	ITD4682	Relief Valve
25	ITD4492	Bolt-On Valve Body Bracket Assembly
26	ITD4232	Wireless - Receiver with Harness & Transmitter KIT (Contains #32 and #33)
27	ITD4676	Electrical Connector for Coil (w/ Gasket)
28	ITD4677	Rubber Cap
29	ITD4703	12 Volt Coil
30	ITD4090	SP12,000 Hose Kit
31	ITD4171	DO3 Valve Solenoid Only
32	ITD4692	Wireless - Receiver with Harness
33	ITD4460	Wireless - Transmitter







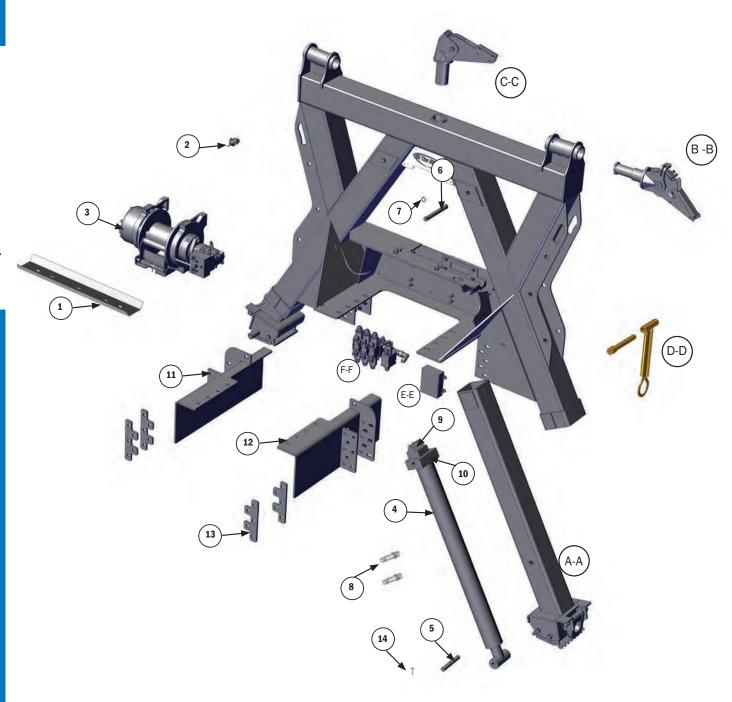












Parts listed with leaders are found on pages 23 - 27

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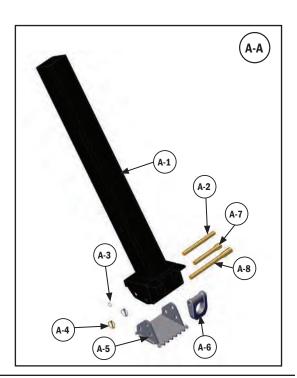


# SP20,000<sup>™</sup> PARTS OVERVIEW

Item #	Part #	Description
1	ITD4156	SP20,000™ Aluminum Hook Slide Tray
	_	-
2	ITD7248	SP20,000 <sup>™</sup> Flipper Air Valve
3	ITD4177	SP20,000™ Hydraulic Winch
4	ITD4183	SP20,000™ Leg Cylinder
5	ITD4181	SP20,000™ Lower Cylinder Pin
6	ITD4182	SP20,000™ Upper Cylinder Pin
7	ITD7069	1" Snap Ring
8	ITD4497	Long Hydraulic Fitting
9	ITD 4693	Sun Counter Balance Valve 3000 PSI
10	ITD4694	Sun Counter Balance Valve Manifold
11	ITD4805-L	SP20,000 <sup>™</sup> Left Adjustable Mounting Base
12	ITD4805-R	SP20,000 <sup>™</sup> Right Adjustable Mounting Base
13	ITD4810	SP20,000™ Nut Plate
14	Hardware	3/8" Knurled Set Screw

# **INNER LEG ASSEMBLY**

Item #	Part #	Description
A-A	ITD4663	SP20,000 <sup>™</sup> Complete Inner Leg Assembly (No cylinder)
A-1	ITD4178	SP20,000™ Inner Leg Only (No Stabilizer Foot)
A-2	ITD4077	SP20,000™ Main Foot Pivot Pin
A- 3	ITD7069	1" Snap Ring
A-4	ITD7099	5/16" Lynch Clip
A - 5	ITD4085	Stabilizer Foot
A- 6	ITD4092	SP20,000™ Removable D-Ring
A-7	ITD4176	SP20,000 <sup>™</sup> Removable D-Ring Pin
A-8	ITD4074	SP20,000 <sup>™</sup> Removable Foot Pin

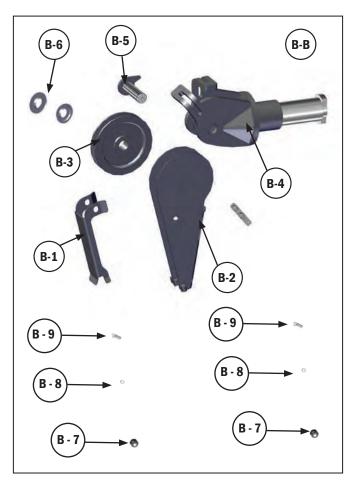






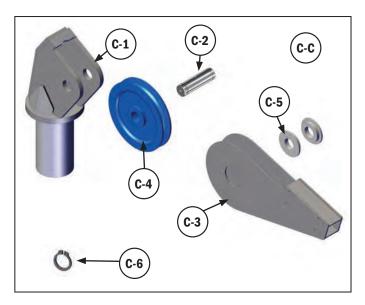
# **OUTER RECOVERY BOOM HEAD**

Item #	Part #	Description
B-B	ITD4185	SP20,000™ Outer Recovery Boom Head
B-1	ITD4206	SP20,000™ Outer Recovery Boom Head Snap on Guide Cover
B-2	ITD4207	SP20,000 <sup>™</sup> Outer Boom Head Wire Guide (No Cover)
B-3	ITD4208	SP20,000 <sup>™</sup> Sheave
B-4	ITD4195	SP20,000 <sup>™</sup> Outer Recovery Boom Head Main Weldment
B-5	ITD4210	SP20,000 <sup>™</sup> Outer Recovery Boom Head Sheave Pin
B-6	ITD4783	1" Nylon Bushing
B-7	1137703	#6 SS Acorn Nut
B-8	1171005	#6 SS Flat Washer
B-9	0145560	#6-32 X 5/16" Hex SS Screw



# **CENTER RECOVERY BOOM HEAD**

Item #	Part #	Description
C-C	ITD4184	SP20,000™ Center Boom Head Complete Assembly
C-1	ITD4273	SP20,000™ Center Boom Head Main Weldment
C-2	ITD4242	SP20,000™ Center Boom Head Sheeve Pin
C-3	ITD4402	SP20,000™ Boom Head Wire Guide
C-4	ITD4208	SP20,000™ Boom Head Sheeve
C-5	ITD4783	1" Nylon Bushing
C-6	ITD7069	1" Snap Ring

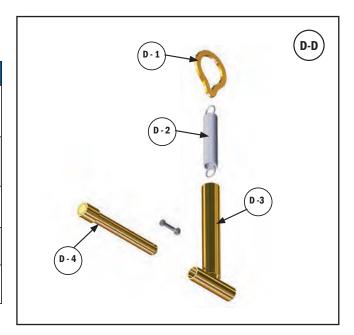






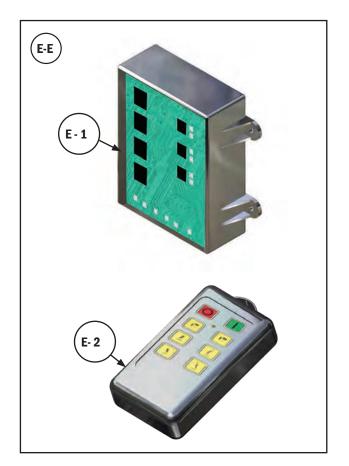
## **SPRING TUBE**

Item #	Part #	Description
D-D	ITD4078	SP20,000™ Spring Tube Assembly
D-1	ITD4066	SP20,000™ Spring Tube Pear Link
D-2	ITD4067	SP20,000™ Spring Tube Replacement Spring
D-3	ITD4064	SP20,000™ Replacement Spring Tube
D-4	ITD4176	SP20,000™ D Ring Pin



# WIRELESS RECEIVER AND TRANSMITTER KIT WITH HARNESS

Item #	Part #	Description
E-E	ITD4232	Wireless - Receiver w/ Harness & Transmitter KIT (Contains E - 1 and E - 2)
E-1	ITD4692	Wireless - Receiver with Harness
E-2	ITD4460	Wireless - Transmitter



A Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.





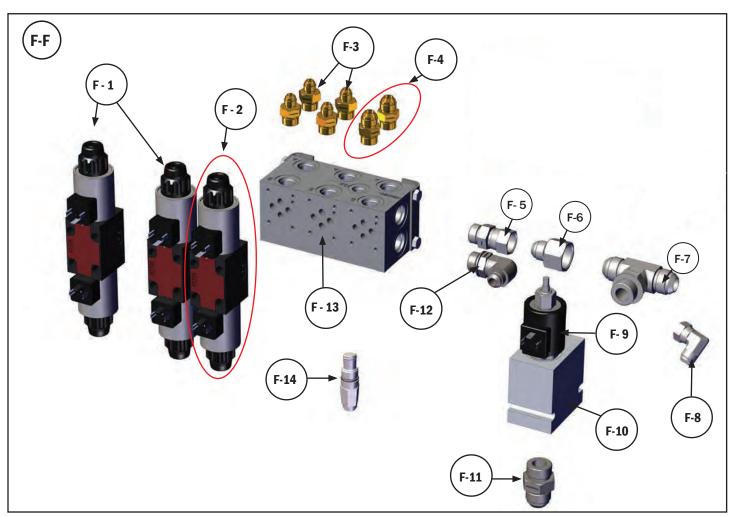
# **VALVE ASSEMBLY**

Item #	Part #	Description
F-F	ITD4175	SP20,000™ Valve Body Kit (12 Volt) (Includes #'s : F-1 - F-14)
F-1	ITD4170	D03 Valve Assembly (Cylinder)
F-2	ITD4695	D03 Valve Assembly (Motor Spool)
F-3	ITD4690	#6 JIC Manifold to Cylinder Lines
F-4	ITD4689	#8 JIC Manifold to Winch Lines
F-5	ITD4688	#10 -#8 Swivel Reducer
F-6	ITD4687	#12 + #10 Reducer
F-7	ITD4686	JIC Tee
F-8	ITD4776	90° JIC #12
F-9	ITD4163S	Diverter Valve Coil Only
F-10	ITD4163	Diverter Valve
F-11	ITD4683	#12 JIC Diverter Valve to Beyond
F-12	ITD4685	#12 JIC 90 deg Return To Tank
F-13	ITD4187	SP20,000™ Manifold Assembly
F - 14	ITD4682	Relief Valve
15	ITD4091	SP20,000™ Hose Kit

⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.









⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.





### **SAFETY AND PRECAUTIONS**



# WARNING



# OWNER'S MANUAL MUST BE KEPT WITH VEHICLE AT ALL TIMES. READ MANUAL BEFORE OPERATING UNIT!

This manual is supplied to you with your In The Ditch™ Towing Products (ITD) unit to better familiarize the owner/operator with the proper operation and maintenance of their unit. The information contained in this manual should be thoroughly understood by all operating and maintenance personnel to insure the safety of the operator of this unit and to prolong the operating life of this unit.

## **Owner, User, and Operators**

ITD appreciates your choice of one of our SP Series<sup>™</sup> SidePullers<sup>™</sup> for your application. Our number one priority is user safety which is best achieved by our joint efforts. We feel that you can make a major contribution to safety if you, as the equipment owners or operator, follow our recommended safety guidelines and precautions.

- 1. Comply with all federal, state and local regulations.
- 2. Read, understand, and follow the instructions in the manual
- 3. Use good, safe work practices in a common sense way.
- 4. Only have authorized and trained operators running the SidePuller™.
- 5. Improper use of this equipment can be dangerous! Incorrect operation can result in bodily injury to the operator and bystanders. Therefore, a thorough understanding of the "operating principles" and "operating instructions" as found in this manual is essential.
- 6. Study each Operating Procedure before using the SidePuller<sup>™</sup>. Apply common sense to assure safety to yourself and bystanders.
- 7. Plan ahead. Work safely. Avoid accidental damage and injury. If an accident does occur, react quickly with the tools and skills at hand. Familiarize yourself with the use of a first aid kit and fire extinguisher. Know where and how to get assistance.

⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.





### **General Precautions**

- Before operating any unit in the SP Series<sup>™</sup>, perform a walk around visual inspection of the SidePuller<sup>™</sup>. (Refer to SP Series<sup>™</sup> Operation Section)
- 2. Before operating a SidePuller<sup>™</sup>, refer to the SidePuller's capacity labels on the Mast Base of the SidePuller<sup>™</sup> and in the Specifications section of your Operating Manual. For Chassis Capacity, consult your truck dealer. Never exceed Manufacturer's Load Rating. The stipulations pertinent to these ratings shall always be carefully observed. Ratings shown are based on the structural design of the SidePuller<sup>™</sup>, NOT the capacity of your vehicle. It is always unsafe to apply any load which is greater than the rated load shown on the Data Plate.
- 3. Do not use this equipment except on solid, level surface with the truck brakes locked and the wheels chocked.
- 4. Operate all controls slowly and smoothly to avoid damage to the SP Series<sup>™</sup> SidePuller<sup>™</sup> or injury to self.
- 5. Do not operate, walk or stand behind a loaded Winch Line. Do not crawl under a suspended load, or allow anyone else to do so.
- 6. Do not use the SP Series™ SidePuller™ for the movement, or lifting of humans!
- 7. Never exceed Working Load Limits of Wire Rope.
- 8. Keep feet, hands, and all body parts clear of Stabilizer Legs' pinch points.
- 9. Use your legs and not your back to lift and stow Stabilizer Legs.
- 10. Always wear protective items such as safety glasses, gloves, reflective clothing and safety shoes.



⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.





# SidePuller™ INSTALLATION UNPACKING THE SP8500™/SP9000™ SIDEPULLER™

- 1 When you receive your SidePuller™, please immediately Inspect for Damage during the shipping process.
- 2 We recommend you remove all the contents from your SidePuller™ Shipping Stand and inventory them. This will help you familiarize yourself with the parts and hardware that are shipped with your SidePuller™.



# **TECH TIP**

Please go to www.intheditch.com and watch the SidePuller™ Installation Video before starting the installation Process.

VIDEO ONLINE

www.intheditch.com

3 - If Your SidePuller<sup>™</sup> has a Rear Stainless Steel Accent Panel Fig 1-1, In The Ditch<sup>™</sup> recommends that you remove it prior to installation. This will help you gain access to bolts and also prevent scratches to the accent panel.

FIG 1-1





If you have any questions during the installation process, don't hesitate to contact In The Ditch™ Tech Support, 8:00 am to 5:00PM MST Monday through Friday 1-888-993-4824. You can also email your question to sales@intheditch.com. We are here to help you in any way we can.

Special Note to Installer. People's Lives may depend on the quality of the installation of this SidePuller™. Please take the time to follow all instructions and guidelines to ensure the installation quality is what our customers deserve.

### **ATTENTION**

Please Note: Due to contributing factors beyond our control that could cause rust, staining, or discoloration of Polished Surfaces, In The Ditch™ Towing Products does not warranty polished stainless steel panels.

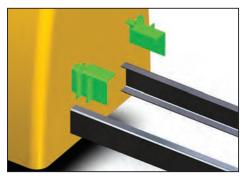
In an effort to keep your stainless looking its best, please visit www.intheditch.com to find the best practices for maintaining your polished stainless steel products. By following our maintenance recommendation, your polished stainless steel should look great for years to come.



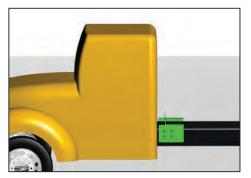


# SP8500™ / SP9000™ SidePuller™ Install

1 - Install the SidePuller™ Mounting Plates as a Mock up and decide the best location for the SidePuller™. ITD™ Recommends 2" to 4" Cab Clearance Note See Figure SP9-1 PG 32 to establish correct Cab to SidePuller™ clearance for your application.







2 - Install Mounting Plates onto frame rail. Use (6) Grade 8 x 5/8" Bolts on each Mounting Plate.



# **TECH TIP**



### **Use Loctite Brand Blue 242 Medium Strength Thread Locker on All Bolts**

3 - Lift your SidePuller™ and Place onto Mounting Plates. You can use ITD4667 Optional Lifting Attachment (sold separately)











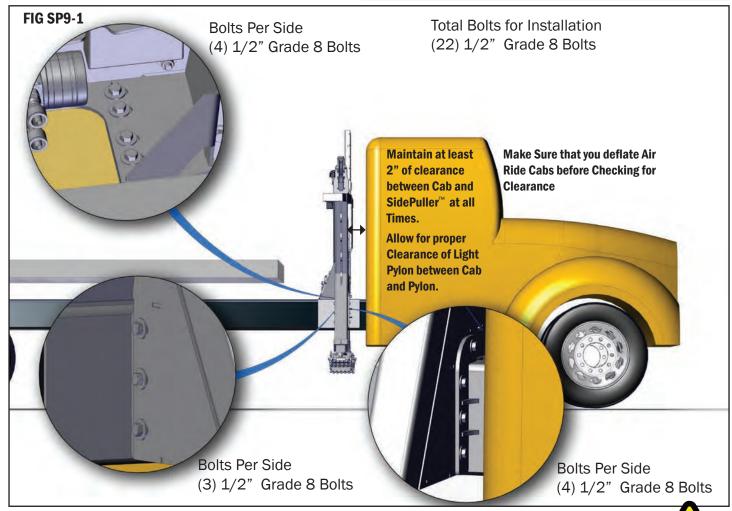






- 4 Attach SidePuller<sup>™</sup> to Mounting Plates. SP8500<sup>™</sup> & SP9000<sup>™</sup> use (11) ½" Grade 8 Bolts Bolts in each side Fig SP9-1.
- 5 SP8500™ & SP9000™ should be installed a minimum of 2 inches behind cab of truck. Allowing enough room for cab flex (See Figure SP9-1).
- \*Recommended. Additional clearance may be desired for winch operation/maintenance. If less space is required, consult drawings or talk to a representative

Chassis Recommendations			
	SP9000	SP8500	
Minimum GVWR	15,000 lbs	15,000 lbs	
Maximum GVWR	26,000 lbs	23,500 lbs	
Minimum Frame Height	32 - Inches	29 - Inches	
Maximum Frame Height	36 - Inches	33 ¾ - Inches	
Minimum Frame Width	34 - Inches	33 ¾ - Inches	
Maximum Frame Width	34 <sup>3</sup> ⁄ <sub>4</sub> - Inches	34 <sup>3</sup> ⁄ <sub>4</sub> - Inches	





# **TECH TIP**

- Tightening Torque for ½" Grade 8 Bolts. 90 ft-lbs
- Tightening Torque for 5%" Grade 8 Bolts. 180 ft-lbs

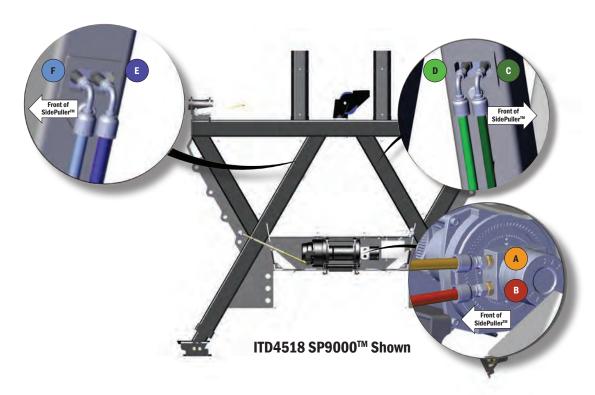




# SP8500<sup>™</sup>/SP9000<sup>™</sup> Hydraulics

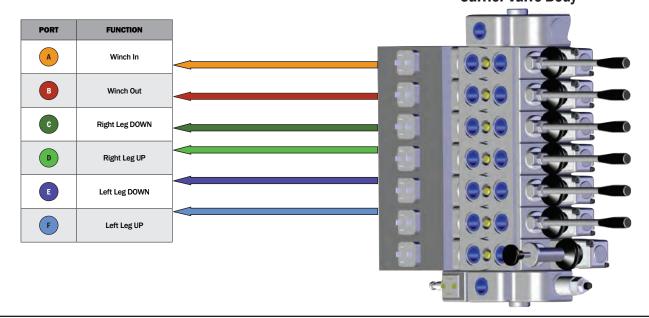
Due to the varying hydraulic valve options when installing an SP8500 $^{\text{\tiny{TM}}}$  & SP9000 $^{\text{\tiny{TM}}}$ , this section will only cover functions of each port. Proper installation and operation is left to the integrity of the installer. If further information is required please contact a ITD $^{\text{\tiny{TM}}}$  Tech Dept representative.

### FIG SP9-2A



### From Valve Body Plumb Hydraulic Lines Into Ports

# Wrecker or Carrier Valve Body

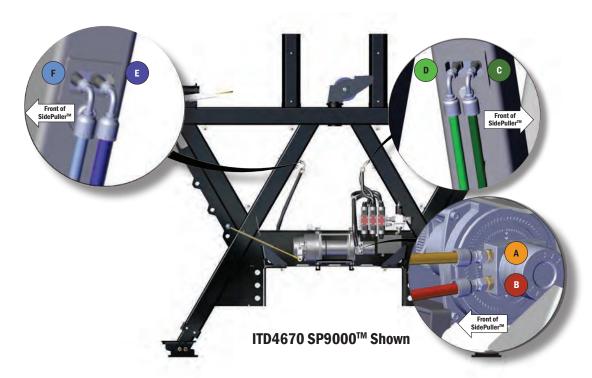






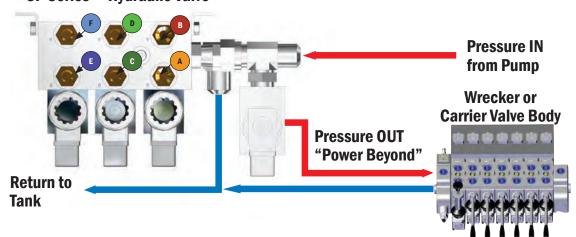
# SP8500™ / SP9000™ with Integrated controls Hydraulics

FIG SP9-2B



SP Series™ · Hydraulic Valve

PORT	FUNCTION	
A	Winch In	
В	Winch Out	
C	Right Leg DOWN	
D	Right Leg UP	
E	Left Leg DOWN	
F	Left Leg UP	



When routing The Hoses to the Outrigger / Stiff Leg Ports on the SP8500™ & SP9000™. Zip Tie the Hose to the Rear of Your SidePuller™ using the SidePuller™ Routing System. For further valve information go to pg. 74 for troubleshooting electrical and hydraulic systems.



For Outrigger/Stiff Leg Hoses you can use either 1/4" or 3/8" Diameter Hydraulic Hoses with a minimum working pressure of 3,000psi.

For Winch Supply Hoses ITD recommends 1/2" Diameter Hydraulic Hoses.





### **Electrical**

- 1 Your SidePuller™ with Integrated Controls is Pre Wired from In The Ditch™.
- 2 Supply 12 Volt Power to the SP™ Wireless Receiver Wiring Harness Red 12 Volt Input Wire. FIG 2-1 PG 71



# **TECH TIP**



- Use Red color 12 Gauge Wire
- Note that SidePullers Operate in Harsh Environments and people's lives and livelihood depend on proper installation. Please take the time to use Heat Shrink Connectors and wiring loom to protect the wiring of your SidePuller™.
- 3 We recommend that you use a Cab Mounted Switch to prevent accidental operation of Wireless Function.
- 4 Use SP™ wire routing system to route hoses and electrical wiring. This will prevent hoses and wires from wear and extend the working life.
- 5 We recommend that you wire the winch light in to this circuit. Black = Positive, White = Ground
- 6 Use 25 Amp Fuse, Prior to In Cab Switch.

# SidePuller™ Installation for SP8500™ & SP9000™: Optional Light Pylon

- 1 If Pylon Has Stainless Steel Accent Panels, Please remove and set aside.
- 2 Install Pylon onto SidePuller™ Pylon Mounts and adjust to the correct height for your application.



# **TECH TIP**



**Use Vice Grips to clamp Pylon in Place (Use Rag to protect Paint)** 

- 3 Drill (4) 5/16" Bolt Holes into SP™ Pylon Mounts, use pre drilled Holes in Pylon as a Template.
- 4 Bolt Pylon to Mount Using Provided Stainless Steel Hardware



### WARNING



INSTALLATION SHOULD BE PERFORMED BY A PROFESSIONAL TOWING EQUIPMENT DEALER!

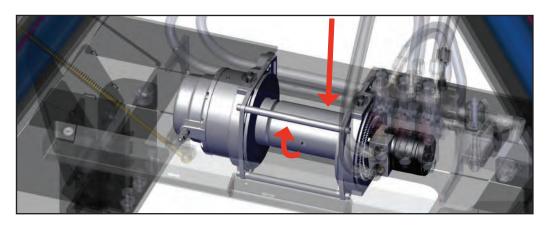




### **Installation: Final Checks**

- 1 Check all Mounting Bolts and ensure they are torqued properly.
- 2 Remove and discard Safety Bar that holds Stabilizer Legs in the Shipping Position.
- 3 Engage Truck Hydraulics and ensure that Stabilizer Legs go up and down properly.
- 4 Check Winch Rotation is correct. Fig SP9-3

FIG SP9-3



5 - Shut Truck off and Install Wire Rope. Start by Reeving the Wire through the center boom head and down to winch. When installing Wire Rope into Winch please refer to winch Operating Manual for Instructions.



# **TECH TIP**



We cannot express enough the importance of keeping your wire rope well lubricated. ITD recommend that you lube your new rope and lube wire at least once per month.



# **RIGGING TIP**

- -Be sure to record the Working Load Limit (W.L.L.) of your wire rope before you use it. The W.L.L. of your wire rope should never be exceeded. It is the responsibility of the equipment operator to inspect wire rope and to not overload it.
- -Keep a minimum of 5 wraps of Wire Rope on Your Winch at all times.

🛕 Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.

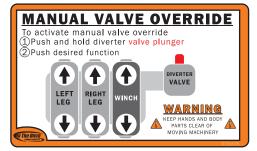




6 - Please install Decals if your SidePuller<sup>™</sup> was not shipped with the decals installed. We take great pride in manufacturing the SidePuller<sup>™</sup> and we hope you have the same pride by display the SidePuller<sup>™</sup> Brand Decals. Decals not only enhance the look of your SidePuller<sup>™</sup>, they serve as a warning to certain areas of your SidePuller<sup>™</sup>.















We have done our very best to share with you the installation practices. It is now time for you to start enjoying your SidePuller™. Please read the Operations Section of this Manual. If you feel we could add more information to this manual please contact us with your suggestions. We would love to hear from you.

Contact In The Ditch™ Tech Support, 8:00 AM to 5:00 PM MST Monday through Friday 1-888-993-4824. You can also email your suggestion to: sales@intheditch.com

⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.



# SidePuller™ INSTALLATION UNPACKING THE SP12,000™ SIDEPULLER™

- 1 When you receive your SidePuller™, please immediately Inspect for Damage during the shipping process.
- 2 We recommend you remove all the contents from your SP Shipping Stand and inventory them this will help you familiarize yourself with the parts and hardware that is shipped with your SidePuller™.



# **TECH TIP**



Please go to www.intheditch.com and watch the SidePuller™ Installation Video before starting the installation Process.

► VIDEO ONLINE

www.intheditch.com

If you have any questions during the installation process, don't hesitate to contact In The Ditch™ Tech Support, 8:00 am to 5:00PM MST Monday through Friday 1-888-993-4824. You can also email your question to sales@intheditch.com. We are here to help you in any way we can.

Special Note to Installer: People's Lives may depend on the quality of the installation of this SidePuller<sup>™</sup>. Please take the time to follow all instructions and guidelines to ensure the installation quality is what our customers deserve.



⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.

It is very important that you properly fill out your product registration form at registration.intheditch.com to register your equipment. By submitting the information within 15 days of your purchase, your warranty will be validated, ensuring that your equipment will be protected subject to the terms and conditions set out herein. In the event we need to contact you concerning your registered equipment, Product Updates, Service Bulletins, or Product Recalls, the information you have provided on the product registration form will ensure your immediate notification. Do your part and let us help you by filling out your product registration form.

**INSTALLATION** 

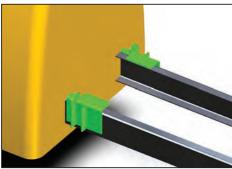


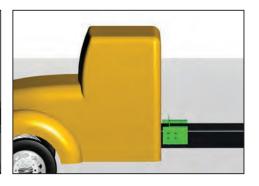


# **SP12,000™ INSTALLATION SPECIFICATIONS**

1 - Install the SidePuller<sup>™</sup> Mounting Plates as a Mock up and decide the best location for the SidePuller<sup>™</sup>. ITD Recommends 2" to 4" Cab Clearance Note See Figure SP12-1 PG 40 to establish correct Cab to Side Puller Clearance for your application.







2 - Install SP12,000™ Mounting Plates onto Frame. Use (8) Grade 8 x 5/8" Bolts on each Mounting Plate



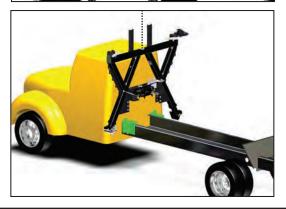
# **TECH TIP**

#### **Use Loctite Brand Blue 242 Medium Strength Thread Locker on All Bolts**

3 - Lift your SidePuller™ and Place onto Mounting Plates. You can use ITD4667 Optional Lifting Attachment (sold separately)











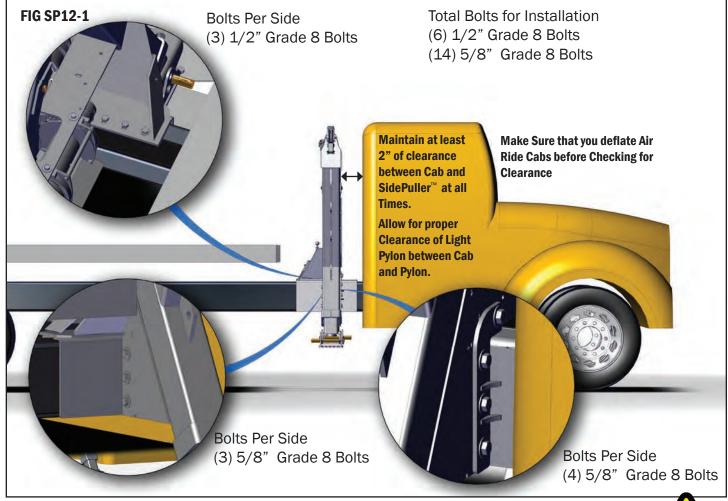




- 4 Attach SidePuller™ to Mounting Plates SP12,000™ use (3) 5/8" Grade 8 Bolts and (7) ½" Grade 8 Bolts in each side Fig SP12-1
- 5 SP12,000 $^{\rm m}$  should be installed a minimum of 2 inches behind cab of truck. Allow enough room for cab flex (See Figure SP12-1).

<sup>\*</sup>Recommended. Additional clearance may be desired for winch operation/maintenance. If less space is required, consult drawings or talk to a representative

Chassis Recommendations		
Minimum GVWR	26,000 lbs	
Maximum GVWR	33,000 lbs	
Minimum Frame Height	34 - Inches	
Maximum Frame Height	40 - Inches	
Minimum Frame Width	34 - Inches	
Maximum Frame Width	34 <sup>3</sup> ⁄ <sub>4</sub> - Inches	
Minimum Additional C.A.*	19 - Inches	





# **TECH TIP**



- Tightening Torque for 1/2" Grade 8 Bolts. 90 ft-lbs
- Tightening Torque for 5/8" Grade 8 Bolts. 180 ft-lbs

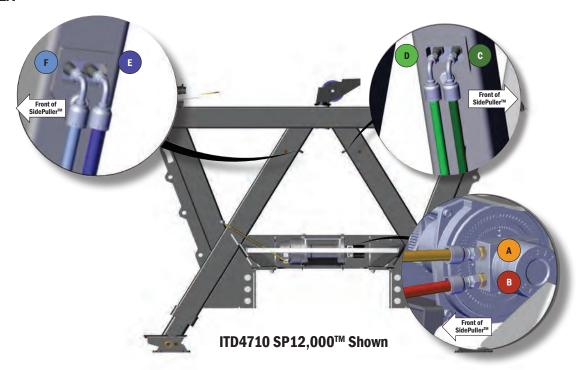


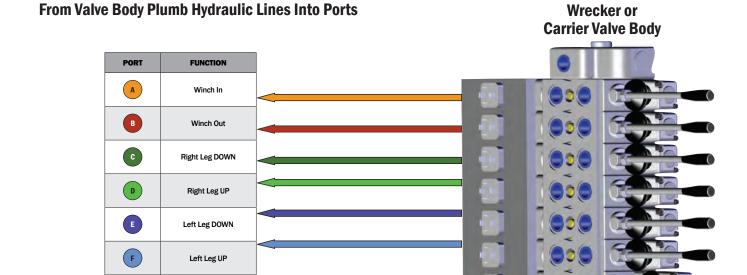


# **SP12,000<sup>™</sup> Hydraulics**

Due to the varying hydraulic valve options when installing an SP12,000 $^{\text{\tiny M}}$ , this section will only cover functions of each port. Proper installation and operation is left to the integrity of the installer. If further information is required please contact an ITD Tech Dept representative.

FIG SP12-2A





► VIDEO ONLINE www.intheditch.com



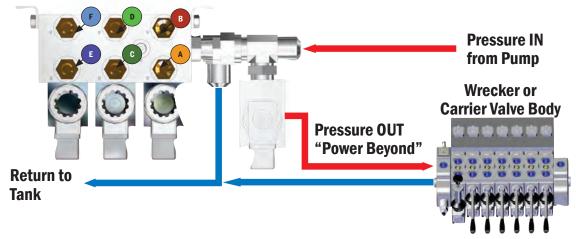


#### FIG SP12-2B



SP Series™ · Hydraulic Valve

PORT	FUNCTION
A	Winch In
В	Winch Out
С	Right Leg DOWN
D	Right Leg UP
E	Left Leg DOWN
F	Left Leg UP



When routing the hoses to the Outrigger / Stiff Leg Ports on the SP8500 $^{\text{TM}}$  and SP9000 $^{\text{TM}}$ , zip tie the hoses to the rear of your SidePuller $^{\text{TM}}$  using the SidePuller $^{\text{TM}}$  Routing System. For further valve information go to pg. 74 - Troubleshooting Electrical and Hydraulic Systems.



For Outrigger/Stiff Leg Hoses you can use either 1/4" or 3/8" Diameter Hydraulic Hoses with a minimum working pressure of 3,000psi.

For Winch Supply Hoses we recommend 1/2" Diameter Hydraulic Hoses.





#### **Electrical**

- 1 Your SidePuller™ with Integrated Controls is Pre-Wired from In The Ditch™.
- 2 Supply 12 Volt Power to the SP™ Wireless Receiver Wiring Harness Red 12 Volt Input Wire. FIG 2-1 PG 71



# **TECH TIP**



- Use Red color 12 Gauge Wire
- Note that SidePullers<sup>™</sup> Operate in Harsh Environments and people's lives and livelihood depend on proper installation. Please take the time to use Heat Shrink Connectors and wiring loom to protect the wiring of your SidePuller<sup>™</sup>.
- 3 We recommend that you Use a Cab Mounted Switch for this function to prevent accidental operation of Wireless Function.
- 4 Use wire routing system to route hoses and electrical wiring . This will prevent hoses and wires from wear and extend the working life.
- 5 Use 25 Amp Fuse, Prior to In Cab Switch.

#### **SidePuller™ Installation for SP12,000™: Optional Pylon Mount**

- 1 When Installing / Welding Light Pylon Mounts to the SP12,000 $^{™}$  we find it best if you install the mounts onto the Pylon first.
- 2 Using a helper, stand Pylon and Mounts into position on your SidePuller<sup>™</sup> and use masking tape to locate area to be welded. Remove Pylon and Mount.
- 3 -Using a helper, Install Pylon and Pylon Mount as 1 unit. Tack weld into position. Stand back and look at all angles to ensure Pylon is copasetic before final welding.
- tion on your pe welded.

  . unit. Tack to ensure
- 4 Bolt Pylon to Mount Using Provided Stainless Steel Hardware





Mask off area outside of area to be welded, use buffer to remove paint in weld area. The masking tape will help prevent damage to painted areas that do not need buffed off.

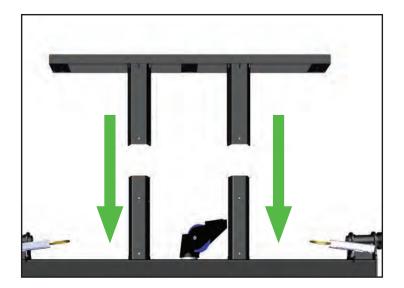
INSTALLATION 43





## **SidePuller™ Installation for SP12,000™: Optional Light Pylon**

- 1 If Pylon Has Stainless Steel Accent Panels, Please remove and set aside.
- 2 Install Pylon onto SidePuller™ Pylon Mounts and adjust to the correct height for your application.
- 3 Drill (4) 5/16" Bolt Holes into SP Pylon Mounts, use pre drilled Holes in Pylon as a Template.
- 4 Bolt Pylon to Mount Using Provided Stainless Steel Hardware





## **TECH TIP**



Use Vice Grips to clamp Pylon in Place (Use Rag to protect Paint) during wiring of your SidePuller™.



# WARNING



# INSTALLATION SHOULD BE PERFORMED BY A PROFESSIONAL TOWING EQUIPMENT DEALER!

⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.

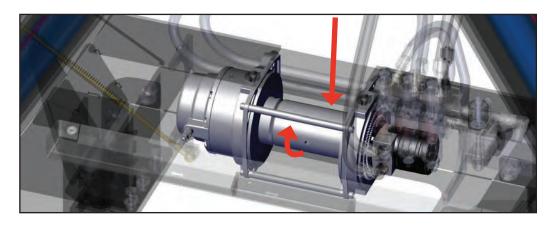




#### **Installation: Final Checks**

- 1 Check all Mounting Bolts and ensure they are torqued properly.
- 2 Remove and discard Safety Bar that holds Stabilizer Legs in the Shipping Position.
- 3 Engage Truck Hydraulics and ensure that Stabilizer Legs go up and down properly.
- 4 Check Winch Rotation is correct. Fig SP12-3

#### **FIG SP12-3**



5 - Shut Truck off and Install Wire Rope. Start by Reeving the Wire through the center boom head and down to winch. When installing Wire Rope into Winch please refer to winch Operating Manual for Instructions.



# **TECH TIP**



We cannot express enough the importance of keeping your wire rope well lubricated. We recommend that you lube your new rope and lube wire at least once per month.



# **RIGGING TIP**

- -Be sure to record the Working Load Limit (W.L.L.) of your wire rope before you use it. The W.L.L. of your wire rope should never be exceeded. It is the responsibility of the equipment operator to inspect wire rope and to not overload it.
- -Keep a minimum of 5 wraps of Wire Rope on Your Winch at all times.

⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.

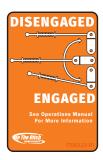
It is very important that you properly fill out your product registration form at registration.intheditch.com to register your equipment. By submitting the information within 15 days of your purchase, your warranty will be validated, ensuring that your equipment will be protected subject to the terms and conditions set out herein. In the event we need to contact you concerning your registered equipment, Product Updates, Service Bulletins, or Product Recalls, the information you have provided on the product registration form will ensure your immediate notification. Do your part and let us help you by filling out your product registration form.

INSTALLATION 45

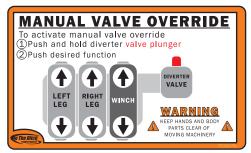




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We have done our very best to share with you the installation practices. It is now time for you to start enjoying your SidePuller™. Please read the Operations Section of this Manual. If you feel we could add more information to this manual please contact us with your suggestions. We would love to hear from you.

Contact In The Ditch™ Tech Support, 8:00 AM to 5:00 PM MST Monday through Friday 1-888-993-4824. You can also email your suggestion to:
sales@intheditch.com

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# SIDEPULLER<sup>™</sup> INSTALLATION UNPACKING THE SP20,000<sup>™</sup> SIDEPULLER<sup>™</sup>

- When you receive your SidePuller<sup>™</sup>, please immediately Inspect for Damage during the shipping process.
- 2 We recommend you remove all the contents from your SP Shipping Stand and inventory them this will help you familiarize yourself with the parts and hardware that is shipped with your SidePuller™.





Please go to www.intheditch.com and watch the SidePuller™ Installation Video before starting the installation Process.

www.intheditch.com

If you have any questions during the installation process, don't hesitate to contact In The Ditch™ Tech Support, 8:00 AM to 5:00 PM MST Monday through Friday 1-888-993-4824. You can also email your question to sales@intheditch.com. We are here to help you in any way we can.

Special Note to Installer. People's Lives may depend on the quality of the installation of this SidePuller™. Please take the time to follow all instructions and guidelines to ensure the installation quality is what our customers deserve.

## **SP20,000™ INSTALLATION SPECIFICATIONS**



Chassis Recommendations				
Minimum GVWR	30,000 lbs	Maximum GVWR	50,000 lbs	
Minimum Frame Height	40 - Inches	Maximum Frame Height	46 - Inches	
Minimum Frame Width	34 - Inches	Maximum Frame Width	34 ¾ - Inches	
Minimum Additional C.A.*	27 - Inches			

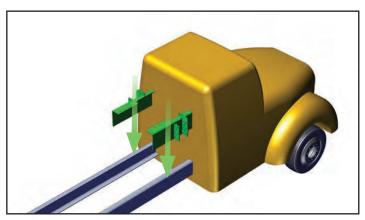
\*Recommended. Additional clearance may be desired for winch operation/maintenance. If less space is required, consult drawings or talk to a representative

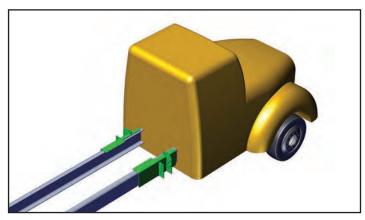




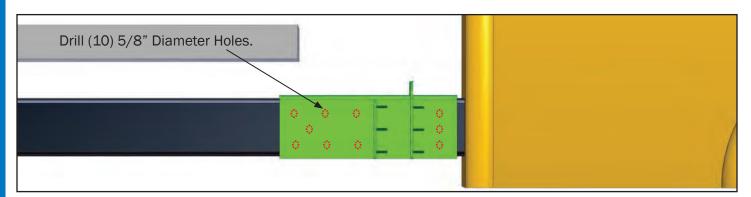
# **SP20,000™ INSTALLATION SPECIFICATIONS**

- 1 Install the SidePuller<sup>™</sup> Mounting Plates as a Mock up and decide the best location for the SidePuller<sup>™</sup>. ITD Recommends 2" to 4" Cab Clearance Note See Figure SP20-1 to establish correct Cab to Side Puller Clearance for your application.
- 2 Place SP20,000™ Mounting Plates onto Frame.

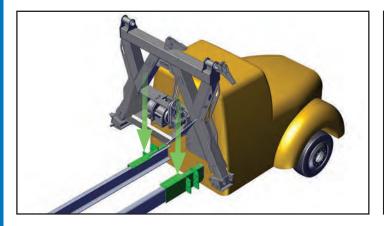


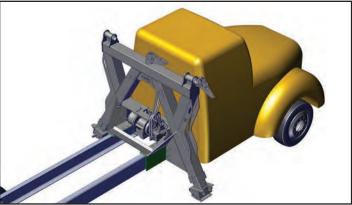


3- Drill Pilot Holes through SidePuller™ Mounting Plate, and Frame Rails. Whenever Possible, use existing truck frame holes. After Drilling Pilot Holes, Drill out mounting holes to 5/8" Diameter Holes. Attach SidePuller™ mounting plates to Frame Rails use (10) 5/8" Grade 8 Bolts in each side.



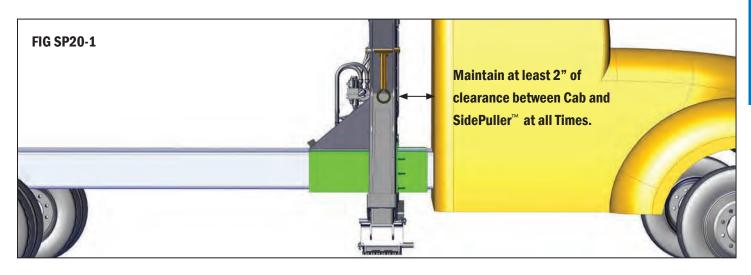
4 - Lift your SidePuller™ and Place onto Mounting Plates.



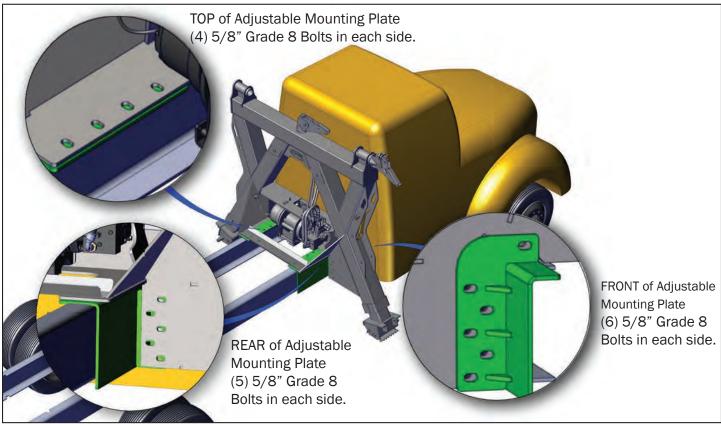








6 – Attach SidePuller™ to SidePuller™ mounting plates use (15) 5/8" Grade 8 Bolts in each side.





# **TECH TIP**



- Use Loctite Brand Blue 242 Medium Strength Thread Locker on All Bolts
- Tightening Torque for 5/8" Grade 8 Bolts. 180 ft-lbs
- Make Sure that you deflate Air Ride Cabs before Checking for Clearance

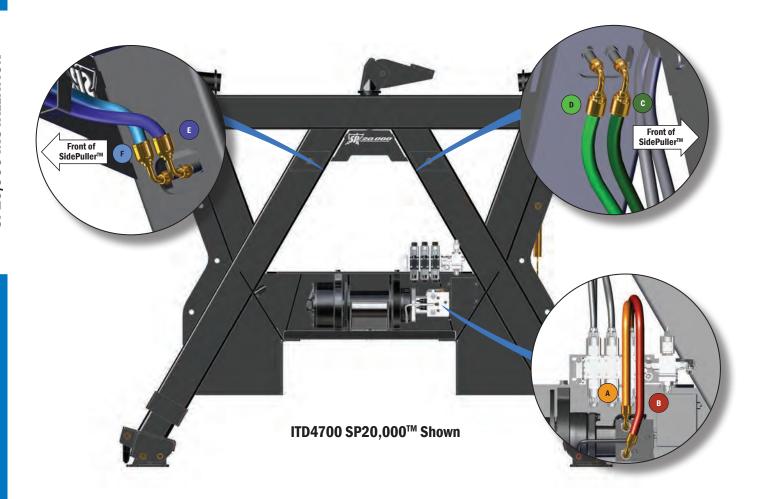
INSTALLATION 49



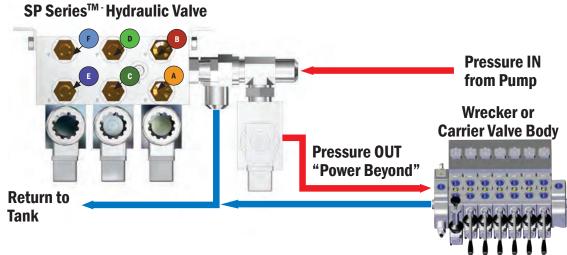


# **SP20,000<sup>™</sup> Hydraulics:**

**FIG SP20-2** 



PORT	FUNCTION
A	Winch In
В	Winch Out
C	Right Leg DOWN
D	Right Leg UP
E	Left Leg DOWN
F	Left Leg UP







#### **Electrical**

- 1 Your SidePuller™ with Integrated Controls is Pre Wired from In The Ditch™.
- 2 Supply 12 Volt Power to the SP Wireless Receiver Wiring Harness Red 12 Volt Input Wire. FIG 2-1 PG 71



# **TECH TIP**



- Use Red color 12 Gauge Wire
- Note that SidePullers<sup>™</sup> Operate in Harsh Environments and people's lives and lively hood depend on proper installation. Please take the time to use Heat Shrink Connectors and wiring loom to protect the wiring of your SidePuller<sup>™</sup>.
- 3 We recommend that you Use a Cab Mounted Switch for this function to prevent accidental operation of Wireless Function.
- 4 Use wire routing system to route hoses and electrical wiring . This will prevent hoses and wires from wear and extend the working life.
- 5 Use 25 Amp Fuse, Prior to In Cab Switch.

#### SidePuller™ Installation for SP20,000™: Optional Pylon Mount

- 1 When Installing / Welding Light Pylon Mounts to the SP20,000™ we find it best if you install the mounts onto the Pylon first.
- 2 Using a helper, stand Pylon and Mounts into position on your SidePuller and use masking tape to locate area to be welded. Remove Pylon and Mount.
- 3 -Using a helper, Install Pylon and Pylon Mount as 1 unit. Tack weld into position. Stand back and look at all angles to ensure Pylon is before final welding.
- 4 Bolt Pylon to Mount Using Provided Stainless Steel Hardware



# **TECH TIP**



Mask off area outside of area to be welded, use buffer to remove paint in weld area. The masking tape will help prevent damage to painted areas that do not need buffed off.

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INSTALLATION 51





# SidePuller Installation for SP20,000™: Optional Light Pylon

- 1 If Pylon Has Stainless Steel Accent Panels, Please remove and set aside.
- 2 Install Pylon onto SidePuller<sup>TM</sup> Pylon Mounts and adjust to the correct height for your application.
- 3 Drill (4) 5/16" Bolt Holes into SP Pylon Mounts, use pre drilled Holes in Pylon as a Template.
- 4 Bolt Pylon to Mount Using Provided Stainless Steel Hardware



# **TECH TIP**



Use Vice Grips to clamp Pylon in Place (Use Rag to protect Paint) during wiring of your SidePuller™.



# WARNING



INSTALLATION SHOULD BE PERFORMED BY A PROFESSIONAL TOWING EQUIPMENT DEALER!

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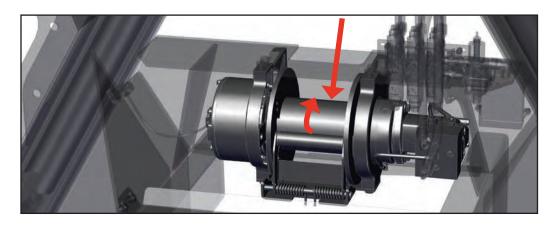




#### **Installation: Final Checks**

- 1 Check all Mounting Bolts and ensure they are torqued properly.
- 2 Remove and discard Safety Bar that holds Stabilizer Legs in the Shipping Position.
- 3 Engage Truck Hydraulics and ensure that Stabilizer Legs go up and down properly.
- 4 Check Winch Rotation is correct. Fig SP20-3

#### **FIG SP20-3**



5 - Shut Truck off and Install Wire Rope. Start by Reeving the Wire through the center boom head and down to winch. When installing Wire Rope into Winch please refer to winch Operating Manual for Instructions.



# **TECH TIP**



We cannot express enough the importance of keeping your wire rope well lubricated. We recommend that you lube your new rope and lube wire at least once per month.



# **RIGGING TIP**

- -Be sure to record the Working Load Limit W.L.L. of your wire rope before you use it. The W.L.L. of your wire rope should never be exceeded. It is the responsibility of the equipment operator to inspect wire rope and to not overload it.
- -Keep a minimum of 5 wraps of Wire Rope on Your Winch at all times.

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INSTALLATION 53

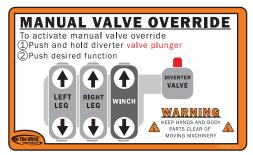




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We have done our very best to share with you the installation Practices. It is now time for you to start enjoying your SidePuller™. Please read the Operations Section of this Manual. If you feel we could add more information to this manual, please contact us with your suggestions. We would love to hear from you.

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#### **SP SERIES™ OPERATIONS**

#### **Walk Around Visual Inspection**

Before operating SP Series<sup>™</sup> SidePuller<sup>™</sup>, perform a walk around visual inspection of the unit.

- 1. Inspect for evidence of physical damage such as cracking, bending, or deformation of plates and welds.
- 2. Inspect carefully for cracking or flaking of paint. Flaking or cracking of paint may indicate a dangerous crack in the structure beneath.
- 3. Examine Wire Rope for fraying, splintering, or other signs of stress that may weaken its load capacity. If Wire Rope is damaged, remove from service immediately. Never exceed manufacturer's working load limit (W.L.L.).
- 4. Ensure the Wire Rope is safely stowed with hook securely attached to the wire rope tieback.
- 5. Inspect all hardware: mounting bolts, nuts, pins, and safety latches. Loose or missing hardware should be properly tightened or replaced with manufacturer's specified hardware.
- 6. For travel, the Stabilizer Legs must be in stowed position and PTO disengaged.
- 7. Inspect all hydraulic hoses for fluid leaks, especially those which flex or move in service. Ensure all hydraulic fluid levels are at fill capacity. Secure all caps and filler plugs for all systems. Hydraulic system leaks must be repaired before the SidePuller<sup>TM</sup> is operated.



WARNING

DO NOT OPERATE SP SERIES™ UNIT UNTIL ALL REPAIRS ARE MADE!



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# **Using the SP Series™ Stabilizer Legs**

- 1 Use Caution When Lowering Stabilizer Legs to ensure there is nothing in the way of Stabilizer Foot when it comes down.
- 2 Do not use the Stabilizer Legs to lift your truck of the ground. The Stabilizer legs are meant for truck stabilizing only.





# **WARNING**

USE EXTREME CAUTION WHEN DEPLOYING THE STABILIZER LEG, ASSURING NOT TO CRUSH OR SEVER THE FOOT!







# **Ground Penetrating Grousers**

To use the Ground Penetrating Grouser feature. Remove the Removable Foot Pin, Fold the Grouser down, reinstall Pin and Lynch Clip.



# **TECH TIP**



Make sure the Removable Pin is install in the proper direction to prevent possible interference with anything while being retracted

When using SidePuller<sup>™</sup> on Concrete or Asphalt Surface we do not recommend the use of the Ground Penetrating Grousers.















# **WARNING**



USE EXTREME CAUTION WHEN DEPLOYING THE STABILIZER LEG, ASSURING NOT TO CRUSH OR SEVER THE FOOT!



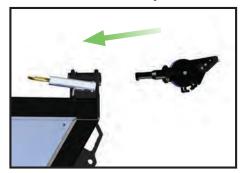


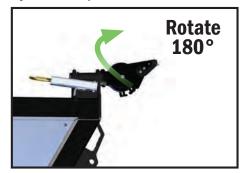


## **Installing the Outer Recovery Boom Head**

- 1. Holding the Outer Recovery Boom Head 90-degrees to the Receiver tube, insert it into the outer boom head receiver until the flange of the Outer Recovery Boom Head tongue meets the mouth of the cylinder.
- 2. Rotate the Outer Recovery Boom Head 180 degrees to secure it in its locked upright position.
- To ensure the Outer Recovery Boom Head is in its locked position, pull it away from the unit to guarantee the cylinder lock pin is engaged with the flange of the Removable Boom Head receiver shaft.

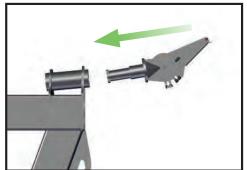
# SP8500<sup>™</sup> / SP9000<sup>™</sup> / SP12,000<sup>™</sup> OUTER RECOVERY BOOM HEAD

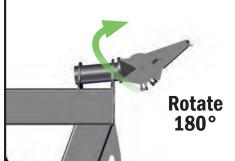


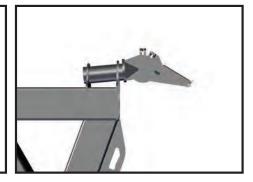




# **SP20,000™ OUTER RECOVERY BOOM HEAD**









# **TECH TIP**

Keeping The Outer Recovery Boom Head Sheave Wheels well-greased will make them last longer and perform better.

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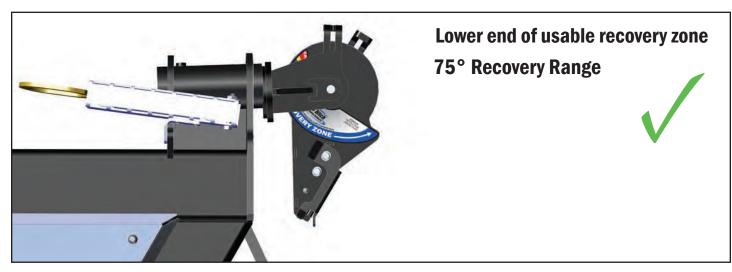
# WARNING

# WHEN USING THE OUTER RECOVERY BOOM HEAD USE CAUTION TO KEEP WITHIN THE BOOM HEAD RECOVERY ZONE



# SP8500<sup>™</sup> / SP9000<sup>™</sup> / SP12,000<sup>™</sup> OUTER RECOVERY BOOM HEAD



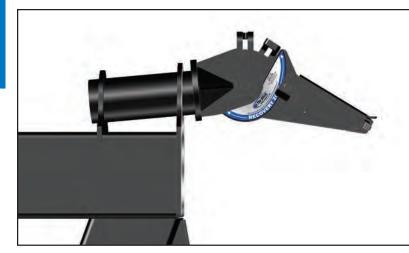






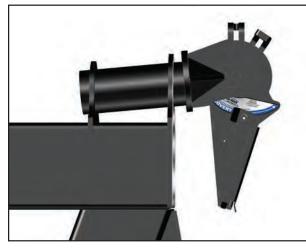


# SP20,000™ OUTER BOOM HEAD



Upper end of usable recovery zone 75° Recovery Range





Lower end of usable recovery zone 75° Recovery Range







WIRE ROPE COVER MUST BE USED AT ALL TIMES





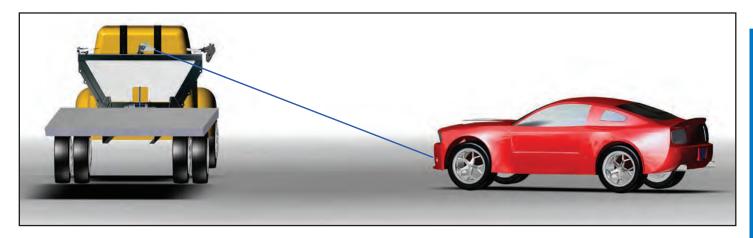


# **Recovery Assessment**

- Find a solid level surface from which to operate the SidePuller™.
- 2. Determine the Wire Rope Rigging and Recovery Scenarios.
- 3. Determine Stabilizer Leg use.
- 4. Determine Outer Removable Boom Head use. If not using Removable Boom Head skip the section and continue on.



You can pull directly off the center Boom Head if you are out of the Recovery Zone.





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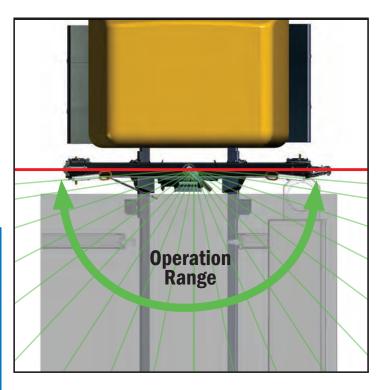




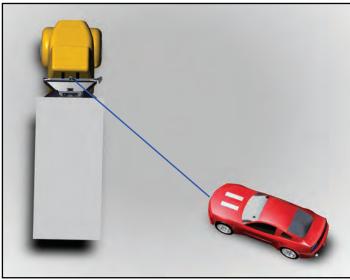
# Wire Rope Rigging and Recovery Scenarios Rigging through the Center Sheave



When rigging the Wire Rope through the Center Sheave only, recoveries can be made within a 170-degree radius behind any of the SP Series<sup>™</sup> SidePullers<sup>™</sup>, with the elevation of the recovered vehicle being higher, lower, or equal to the unit. Do not exceed the Working Load Limit (W.L.L.).

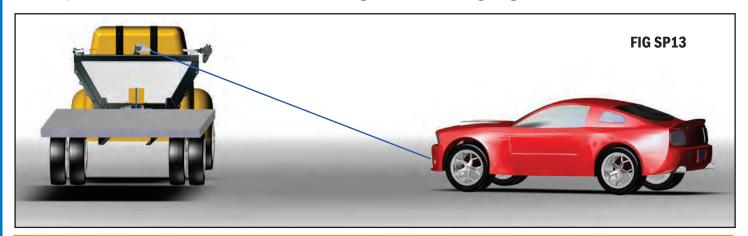


#### FIG SP13



Pulling from the Center Recovery Boom Head is a great technique to use. In fact we feel it should be your preferred method for winching any casualty that

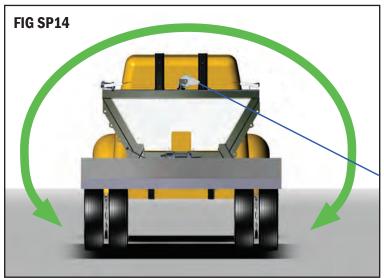
is not over an embankment. You can pull Directly off the Center Boom head in any direction as long as the Wire Rope does not contact the truck as shown in figures SP13 through Fig SP16.



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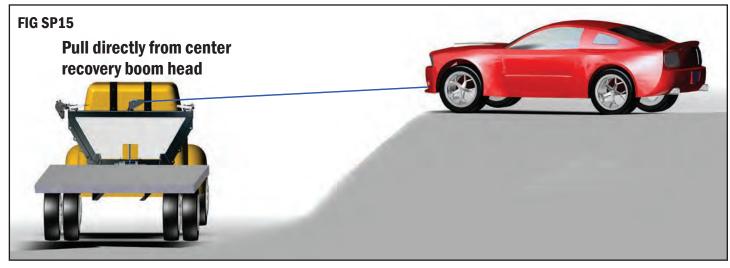


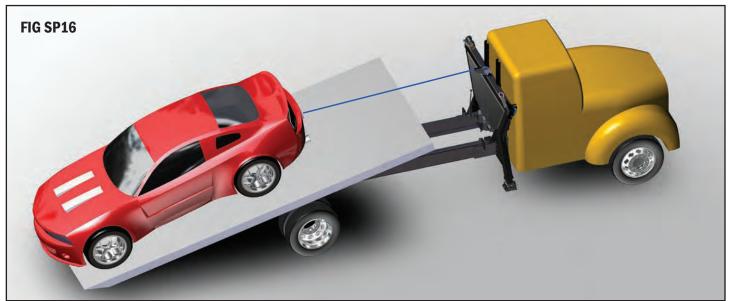






BE SURE WHEN APPLYING THIS PROCEDURE THAT THE WIRE ROPE IS FREE FROM ANY OBSTRUCTIONS ON THE UNIT, THE GROUND, AND THE VEHICLE BEING RECOVERED



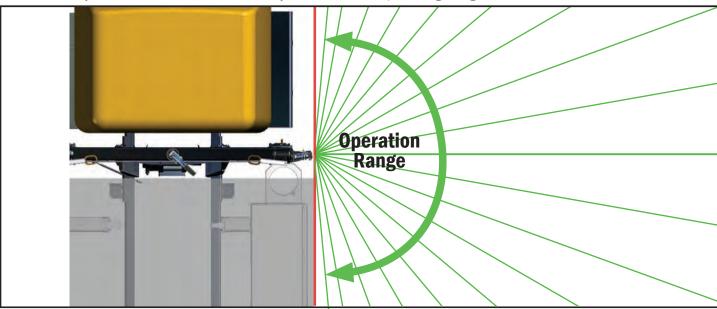


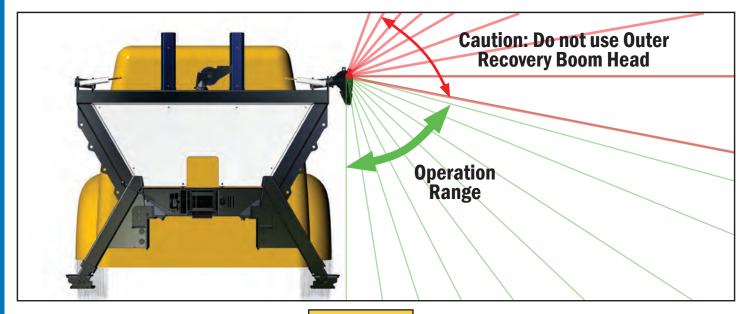




# **Rigging through the Center Sheave and Outer Recovery Boom Head**

When rigging the Wire Rope through the Center Sheave and Outer Recovery Boom Head only, recoveries are limited to a 170-degree radius perpendicular to the unit and must be well below the elevation of the Outer Boom Head. You must have at least a 15° downward angle on the wire rope. If you cannot maintain a 15° downward angle or question the angle when pulling at the front or rear of the tow truck we recommend you use a snatch block to stay inside of the operating range.







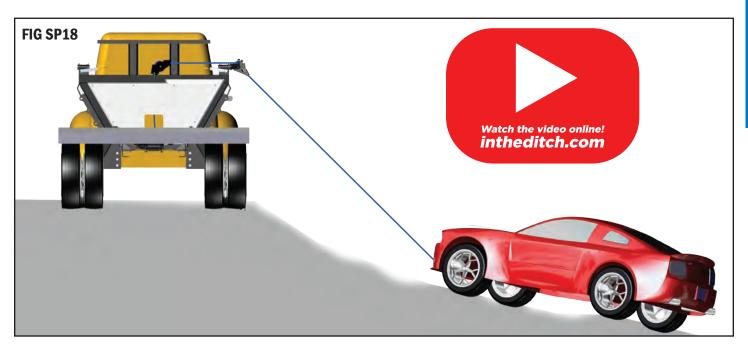
# WARNING

USING THIS METHOD TO RECOVER A VEHICLE THAT IS AT THE SAME ELEVATION OR HIGHER ELEVATION THAN THE UNIT MAY RESULT IN FAILURE OF THE OUTER RECOVERY BOOM HEAD AND CAN CAUSE INJURY



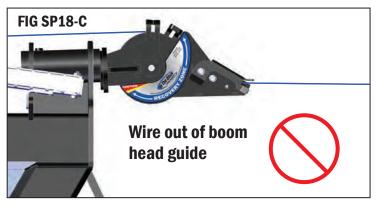
















# **RIGGING TIP**

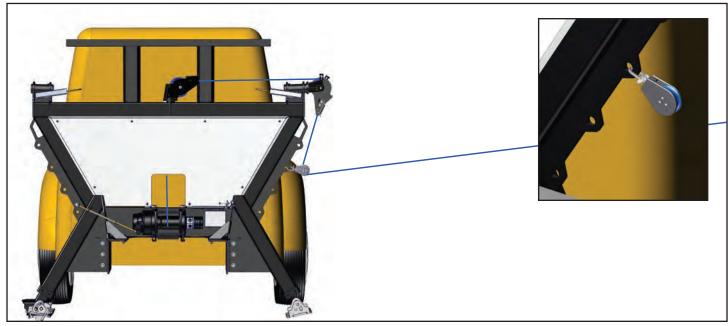
When Rigging as shown in Fig SP18, use Caution and stay in the Recovery Zone. (Fig SP18-A & B) Failure you to do so could result in personal injury! (Fig SP18-C & D.)



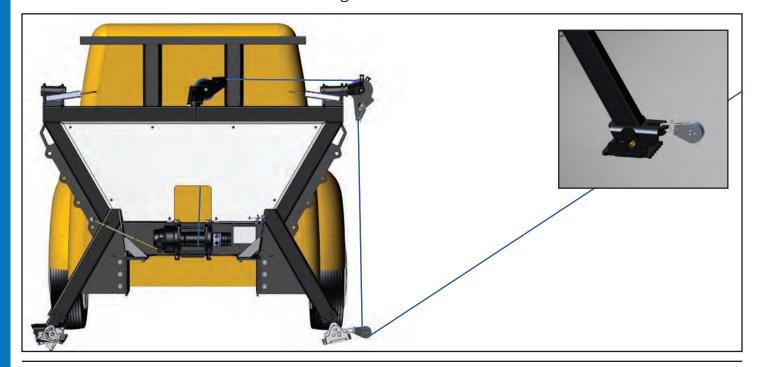


# Rigging through the Center Sheave, Outer Recovery Boom Head, and a Snatch Block

When rigging the Wire Rope through the Center Sheave, the Outer Recovery Boom Head, and a Snatch Block, the Snatch Block must be secured to one of Anchor Points on the upper Angle Brace. Recovery is limited to a 45-degree radius perpendicular to the unit. This rigging is best used for side pulls at an equal elevation to the unit. The maximum load capacity for this rigging is dependent upon the W.L.L. of the Wire Rope, Snatch Block, and stability of the chassis.

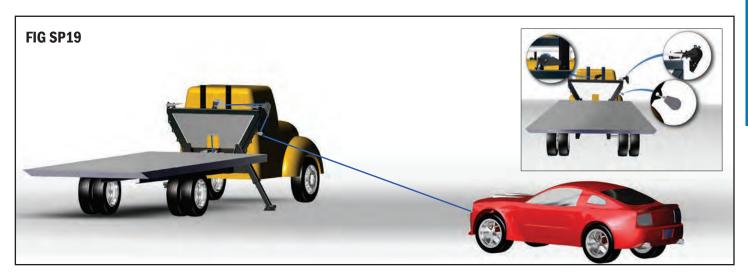


Rigging in this method give you great versatility and recovery options. You can pull in multiple directions. When rigging through a snatch block you may increase the loads on the Anchor Point. Be sure to know your line loads and understand Snatch Block Loading Effects on the SidePuller $^{TM}$ .

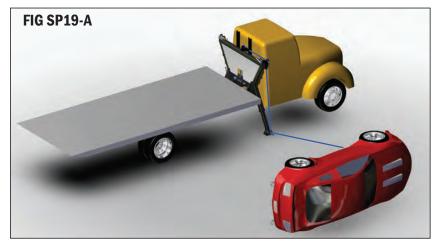


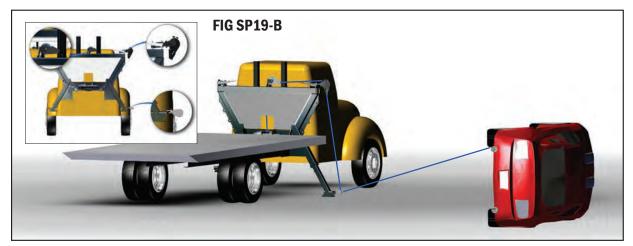






When Rigging from Outer Boom Head Down through a Snatch Block, you have many options in the direction of pull. You can pull off any of the anchor points on the side of The SidePuller™ (Fig 3-1). You can also attach Snatch Block To The Stabilizer Foot and gain a great advantage when pulling a casualty over (Fig 3-2 and Fig 3-3).







# **RIGGING TIP**

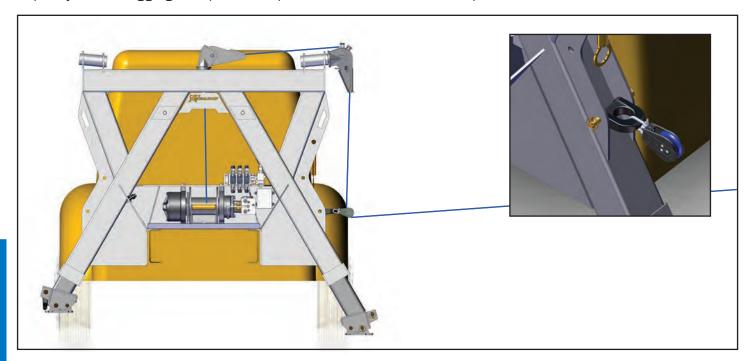
We recommend that you use a snatch block that is of the proper load rating and that has a sheave at least 12 times the diameter of the wire rope. Example 3/8" Wire rope .375 x 12 = 4.5" Sheave Wheel on your Snatch Block.

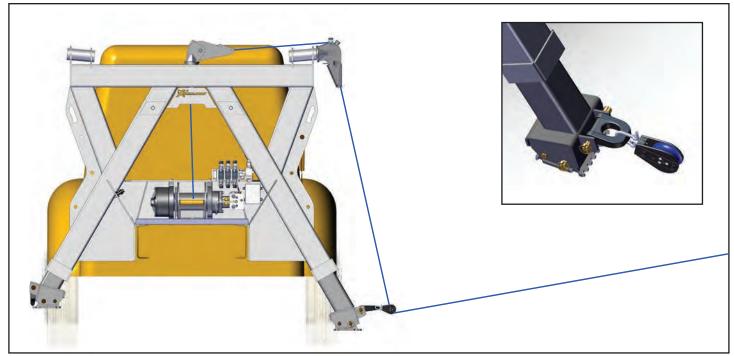




# Rigging through the Center Sheave, Outer Recovery Boom Head and a Snatch Block secured to the D-Ring

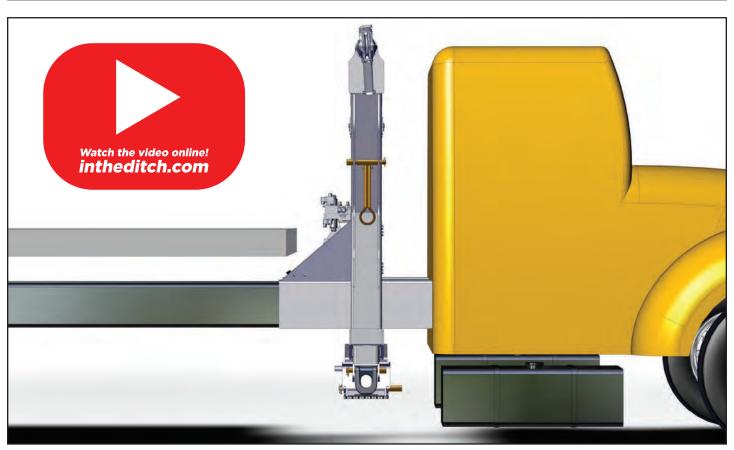
When rigging through the Center Sheave, the Outer Recovery Boom Head, and a Snatch Block secured to the D-Ring of the Stiff Leg, the Stiff Leg must be firmly planted on the ground. Recoveries are limited to a 45-degree radius perpendicular to the unit. This rigging is best used when a vehicle is up an embankment above the unit, or when a Rollover is being performed to right the recovered vehicle. The maximum load capacity for this rigging is dependent upon the W.L.L. of the Wire Rope and Snatch Block.











Using this rigging technique, you can get a low pull and gain a great advantage on the casualty.



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## **Winch Operation**

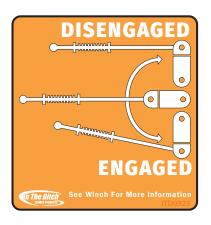
The following practices should be maintained when using the winch line.

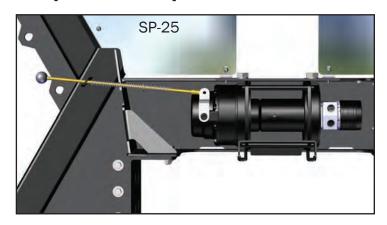
- Attach the Wire Rope hook to a hook-up chain or sling suitable for the object being loaded. This enables
  the Wire Rope to pull from the load center and help even spooling of the Wire Rope on the Winch Drum.

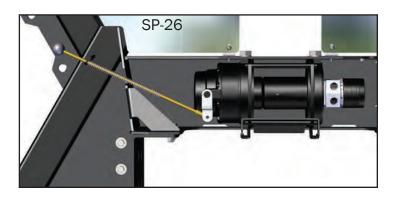
  DO NOT attach the Wire Rope hook directly to the object being loaded.
- 2. **DO NOT** wrap the Wire Rope around an object as this tends to fray or kink the wire.
- 3. **DO NOT** exceed the Wire Rope working load limit.
- 4. A minimum of 5 wraps of Wire Rope around the Winch Drum is necessary.
- 5. Maintain an even wire wrap on the Winch Drum and also observe and ensure that the wire does not climb up the side of the Winch Drum when in use.
- Continually observe the Wire Rope condition for kinks, frays, or a build-up of rust. Should any of these conditions be noticed, replace the Wire Rope assembly. Check with Wire Rope dealer for out of service criteria of Wire Rope.

# SP8500™, SP9000™, and SP12,000™ Free Spool Winch Option

- 1. The SP8500<sup>™</sup>, SP9000<sup>™</sup>, and SP12,000<sup>™</sup> use a manually activated Free Spool Rod Handle.
- 2. To Disengage winch, be sure Free Spool Rod Handle is in location shown in (Figure SP-25)
- 3. To Engage winch, be sure Free Spool Rod Handle is in location shown in Figure SP-26







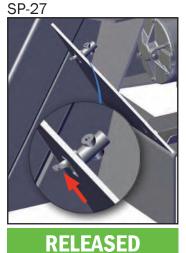


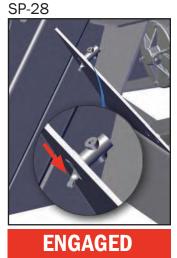


# **SP20,000™** Flipper Air Valve

- The SP20,000<sup>™</sup> Uses an Air Operated Free Spool Lever.
- 2. To release winch, be sure Free Spool Rod Handle is in location shown in (Figure SP-27)
- 3. To engage winch, be sure Free Spool Rod Handle is in location shown in (Figure SP-28)



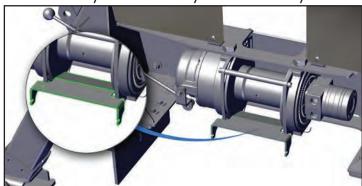




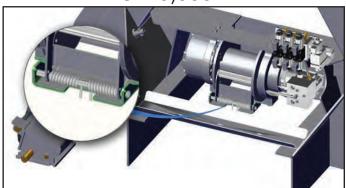
#### **Winch Tensioner Plate**

- 1. The SP8500<sup>™</sup>, SP9000<sup>™</sup>, and SP12,000<sup>™</sup> use an ITD<sup>™</sup> Exclusive Designed Tensioner Plate. This plate mounts to the bottom of your Warn Winch and is tensioned by 2 springs. Periodic inspection is required by the operator to ensure the tensioner is in good operating condition. (**Do Not operate Winch without Tensioner**)
- 2. The SP20,000™ uses a Warn Roller Tensioner. Periodic inspection is required by the operator to ensure the tensioner is in good operating condition. (**Do Not operate Winch without Tensioner**)





**SP20,000™** 



# WARNING



BEFORE OPERATING THE WINCH, REFER TO THE WARN WINCH OPERATOR'S MANUAL FOR COMPLETE UNDERSTANDING OF WINCH OPERATING PROCEDURES.



WHEN USING THE FREE SPOOL CONTROL, YOU MUST ENSURE THAT THE DRUM CLUTCH IS REENGAGED AND FULLY SEATED BEFORE WINCHING BEGINS. IF THE DRUM CLUTCH IS NOT FULLY ENGAGED BEFORE WINCHING BEGINS, IT MAY POP OUT AND ALLOW THE WINCH TO FREE SPOOL. REFER TO WINCH OPERATIONS MANUAL.

# **SP SERIES OPERATIONS**

# SERIES WWW.sidepuller.com

#### **Product Manual**



#### **MAINTENANCE**

The simple design nature of the SP Series<sup>™</sup> SidePullers<sup>™</sup> makes for simple maintenance. For longer life expectancy of your SP Series<sup>™</sup> SidePullers<sup>™</sup>, efficient and safe usage, ITD<sup>™</sup> recommends performing routine maintenance on the unit.

- Perform a walk around visual inspection of the SP Series<sup>™</sup> SidePuller<sup>™</sup> on a per use basis. (Refer to SP Series<sup>™</sup> Operation Section)
- 2. There are two (2) Lubrication Fittings or Zerks (See Figures) on the SP12,000™ & SP20,000™; one on each boom head sheave. Three (3) Lubrication Fittings or Zerks (See Figures) on the SP8500™ and SP9000™. Grease the Zerks after each use.
- 3. Inspect all SP Series™ accessories before each use including Screw Pin Shackles, Wire Rope, and Snatch Blocks.

### **MAINTENANCE CHECKLIST**

1. Grease Center Recovery Boom Head 🕕
2. Grease Outer Recovery Boom Head
3. Inspect Winch
4. Inspect Wire Rope and Lubricate
5. Inspect Inner leg Assembly
6. Inspect Stabilizer Foot
7. Inspect electrical wiring
8. Spring tube spring (Wire rope tie back
9. Tension springs
10. Inspect hydraulic hoses ( Models with Integrated Controls)

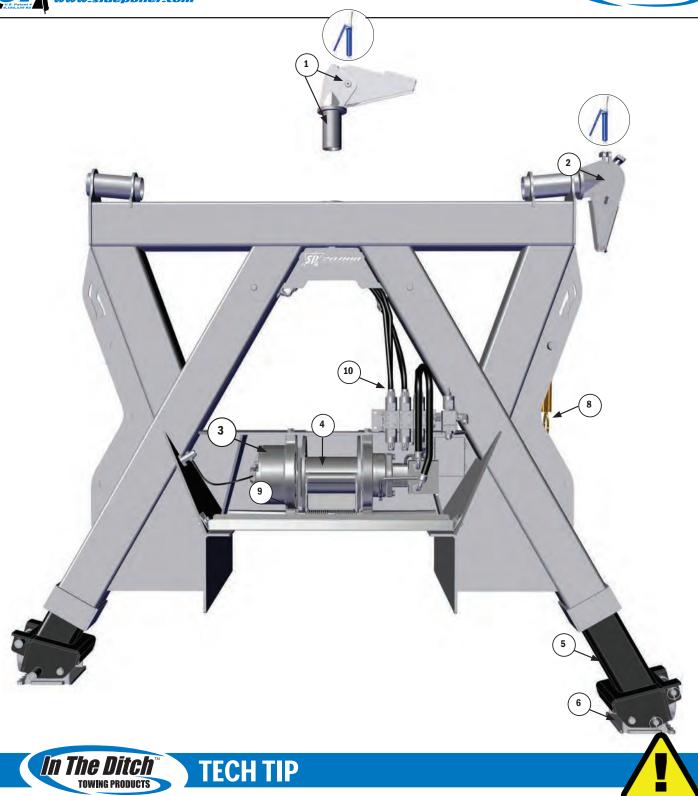
⚠ Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.

73



#### **Product Manual**





We cannot express enough the importance of keeping your wire rope well lubricated. We recommend that you lube your new rope and lube wire at least once per month.

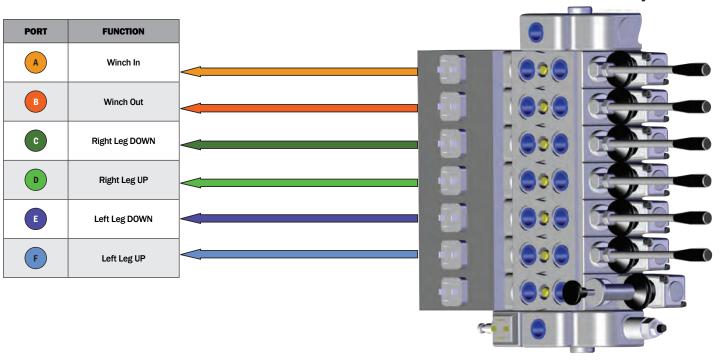
A Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.



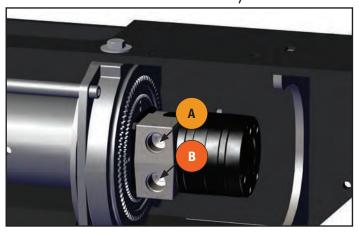


# TROUBLESHOOTING HYDRAULIC AND ELECTRICAL SYSTEMS SP Series™ Product Hydraulic Schematic

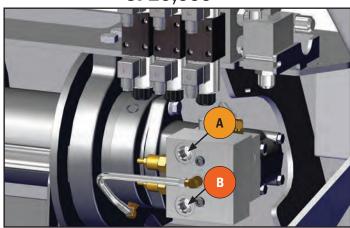
Wrecker or Carrier Valve Body



**SP9000™** and **SP12,000™** 



**SP20,000**™



## **RECOMMENDED WINCH FLOW (Gallons Per Minute)**



=15 GPM

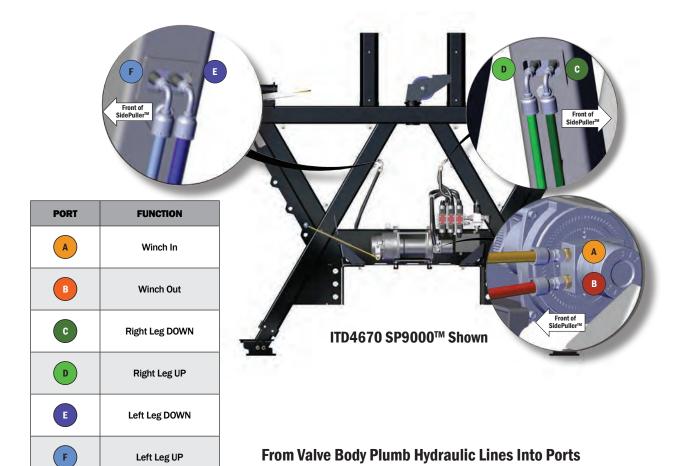




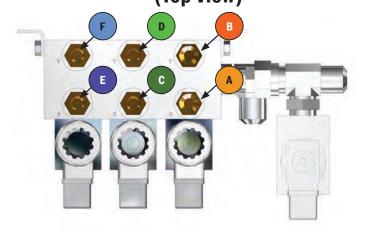
**CAUTION: 20+ GPM CAN CAUSE DAMAGE TO THE MOTOR SEAL** 



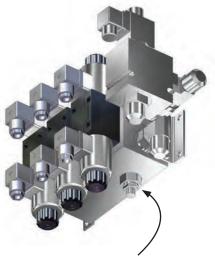




# SP Series<sup>™</sup> · Hydraulic Valve (Top View)



# SP Series<sup>™</sup> · Hydraulic Valve (Bottom Side View)



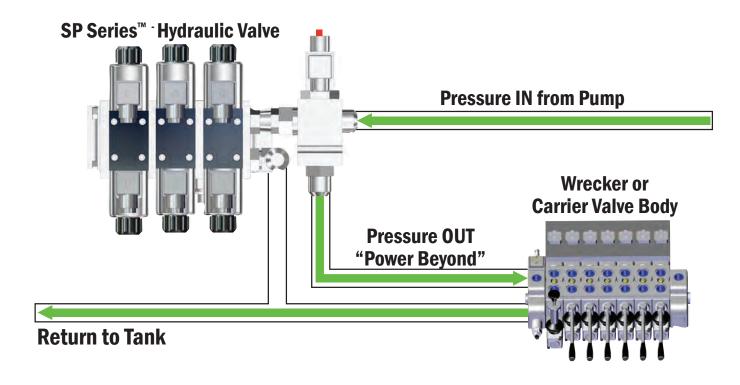
Pressure Relief set to 2,500 P.S.I.

Please contact ITD if you need to make an adjustment to this relief.

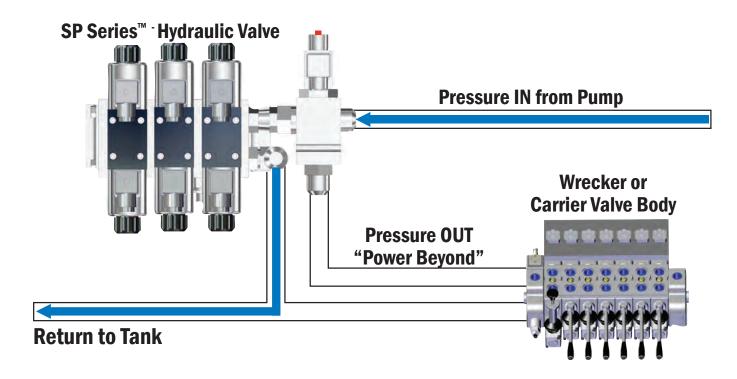




SP Series<sup>™</sup> Product Hydraulic Schematic (Integrated Controls with Power Beyond)
Normal Operation (Remote Not Activated)



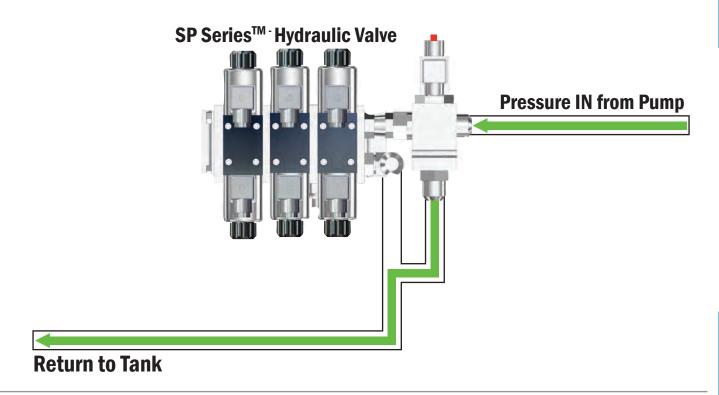
#### **Wireless Remote Activated**



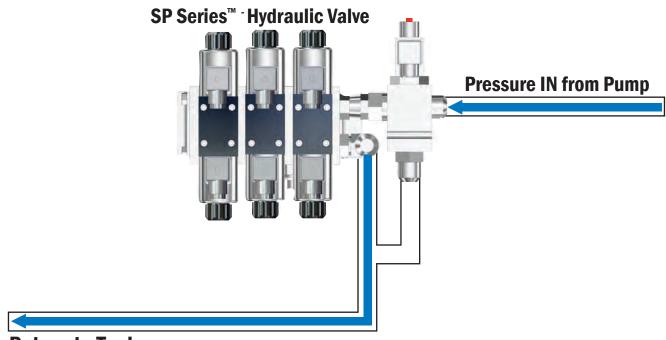




# SP Series<sup>™</sup> Product Hydraulic Schematic (Stand Alone System) Normal Operation (Remote Not Activated)



## **Wireless Remote Activated**



# SERIES 1.5. Paul 1 WWW.sidepuller.com

#### **Product Manual**

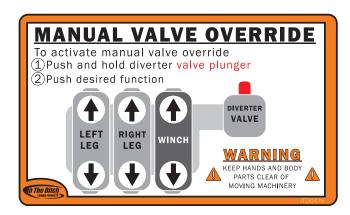


#### **Manual Valve Override**

In the event that your wireless remote does not work, you can manually operate your SidePuller™ control using the Manual Override Buttons. These functions are for emergency use only, and should only be used to allow you to get back to the shop for repairs. Extreme Caution must be used when using the functions to ensure all body parts are clear of winch lines, winch, and stabilizer legs. To operate Override functions, you must have truck running, PTO on, brakes set, and wheels chocked.

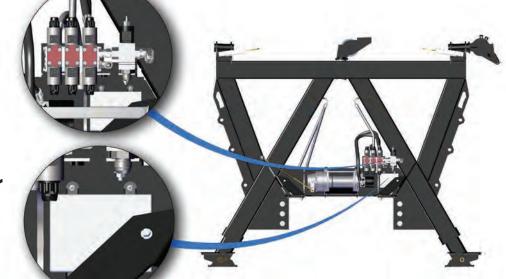
Step 1 - Remove Plastic Cap From Diverter Valve, depress and hold the Red Button.

Step 2 - While Depressing the Red Diverter Valve Button, press and hold the desired SidePuller™ Function.



# **SP Series™ Product Electrical Schematic**

# Hydraulic Manifold Assembly

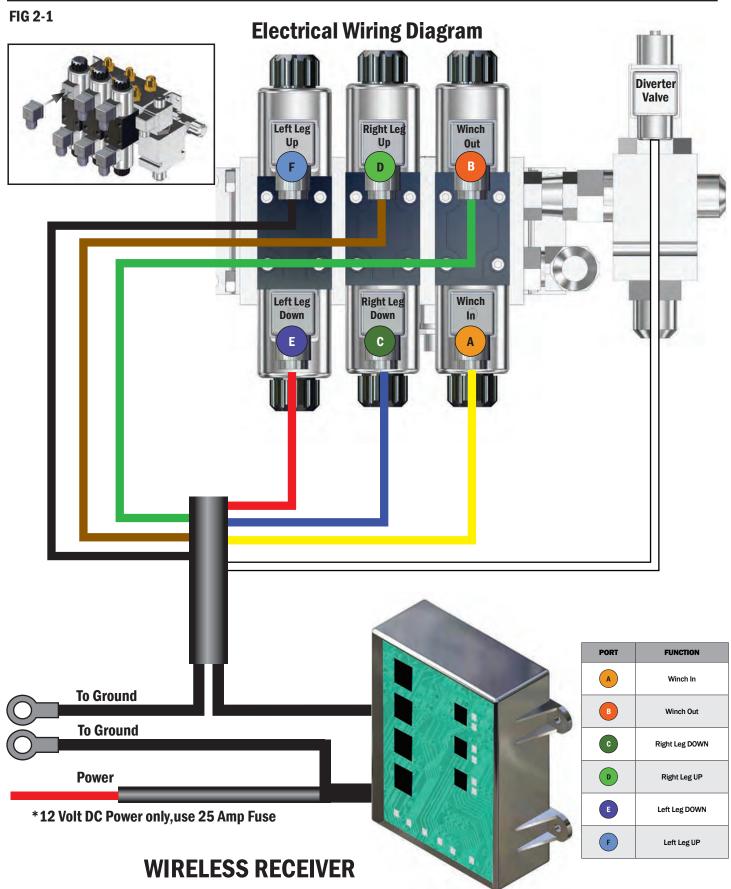


SP Wireless Receiver Control Box

A Failure to follow the safety guidelines listed may result in voiding any applicable warranty, serious bodily injury, or death.

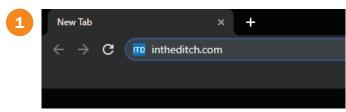






# Go to REGISTRATION.INTHEDITCH.COM for product registration

#### ITS AS EASY AS THESE 4 STEPS!



In your browser, navigate to intheditch.com



After navigating to <u>intheditch.com</u>, hover over the extras tab to view an expanded list of links.



Under the Extras tab, click on "ITD Product Registration".



Complete the form located on the product registration page.



After completing the form, make sure you complete the captcha at the bottom, and click on the "Register My Product" button.

It is very important that you properly fill out your product registration form at registration.intheditch.com (follow the screenshots above) to register your equipment. By submitting the information within 15 days of your purchase, your warranty will be validated, ensuring that your equipment will be protected subject to the terms and conditions set out herein. In the event we need to contact you concerning your registered equipment, Product Updates, Service Bulletins, or Product Recalls, the information you have provided on the product registration form will ensure your immediate notification. Do your part and let us help you by filling out your product registration form. Please fill out the product registration form at registration intheditch.com within 15 days after purchase. This validates the warranty transfer and is essential for your protection. If ITD should ever need to contact you concerning compliance of your ITD equipment with any applicable safety standards, the information you have provided on the product registration form will ensure your immediate notification.

In the event you were not the original purchaser of the product, we still need you to register your In The Ditch Products.

PLEASE TAKE THE TIME TO FILL OUT THE PRODUCT WARRANTY FORM.

**GO TO: REGISTRATION.INTHEDITCH.COM** 

IF YOU HAVE ANY QUESTIONS PLEASE CALL IN THE DITCH: 1-208-587-7960

VISIT OUR WEBSITE!

IN THE DITCH.COM



PHONE: 1-208-587-7960 EMAIL: sales@intheditch.com