ShoreLandr® SERVICE MANUAL

SR-V1946T Parts Manual

SR-GV1946T 2X4 Tandem Sea Ray 4600# Galv.

1	62340	Literature Bag - Trailers
4	4300198	ST215/75R 14C Tire/Galv Dir Rim
1	6628100	Frame Bundle SR-GV1946T
1	66289	Hardware Bag SR-V1946/2046T
1	6631700	Axle Assembly for 2X4 (80 Wide)
1	6631800	Axle W/Brakes 2X4 (80 Wide)

SR-GNV1946T 2X4 Tandem SeaRay 4600# Green

1	62340	Literature Bag - Trailers
4	4300199	ST215/75R 14C Tire/MSliver Dir Rim
1	6628113	Frame Bundle SR-GNV1946T
1	66289	Hardware Bag SR-V1946/2046T
1	6631703	Axle Assembly for 2X4 (80 Wide)
1	6631803	Axle W/Brakes 2X4 (80 Wide)

SR-PWV1946T 2X4 Tandem Sea Ray 4600# PW

1	62340	Literature Bag - Trailers
4	4300199	ST215/75R 14C Tire/MSilver Dir Rim
1	6628108	Frame Bundle SR-PWV1946T
1	66289	Hardware Bag SR-V1946/2046T
1	6631703	Axle Assembly for 2X4 (80 Wide)
1	6631803	Axle W/Brakes 2X4 (80 Wide)

SR-BLV1946T 2X4 Tandem Sea Ray 4600# Blue

1	62340	Literature Bag - Trailers
4	4300199	ST215/75R 14C Tire/MSilver Dir Rim
1	6628114	Frame Bundle SR-BLV1946T
1	66289	Hardware Bag SR-V1946/2046T
1	6631703	Axle Assembly for 2X4 (80 Wide)
1	6631803	Axle W/Brakes 2X4 (80 Wide)

SR-BKV1946T 2X4 Tandem Sea Ray 4600# Black

1	62340	Literature Bag - Trailers
4	4300199	ST215/75R 14C Tire/MSliver Dir Rim
1	6628103	Frame Bundle SR-BKV1946T
1	66289	Hardware Bag SR-V1946/2046T
1	6631703	Axle Assembly for 2X4 (80 Wide)
1	6631803	Axle W/Brakes 2X4 (80 Wide)

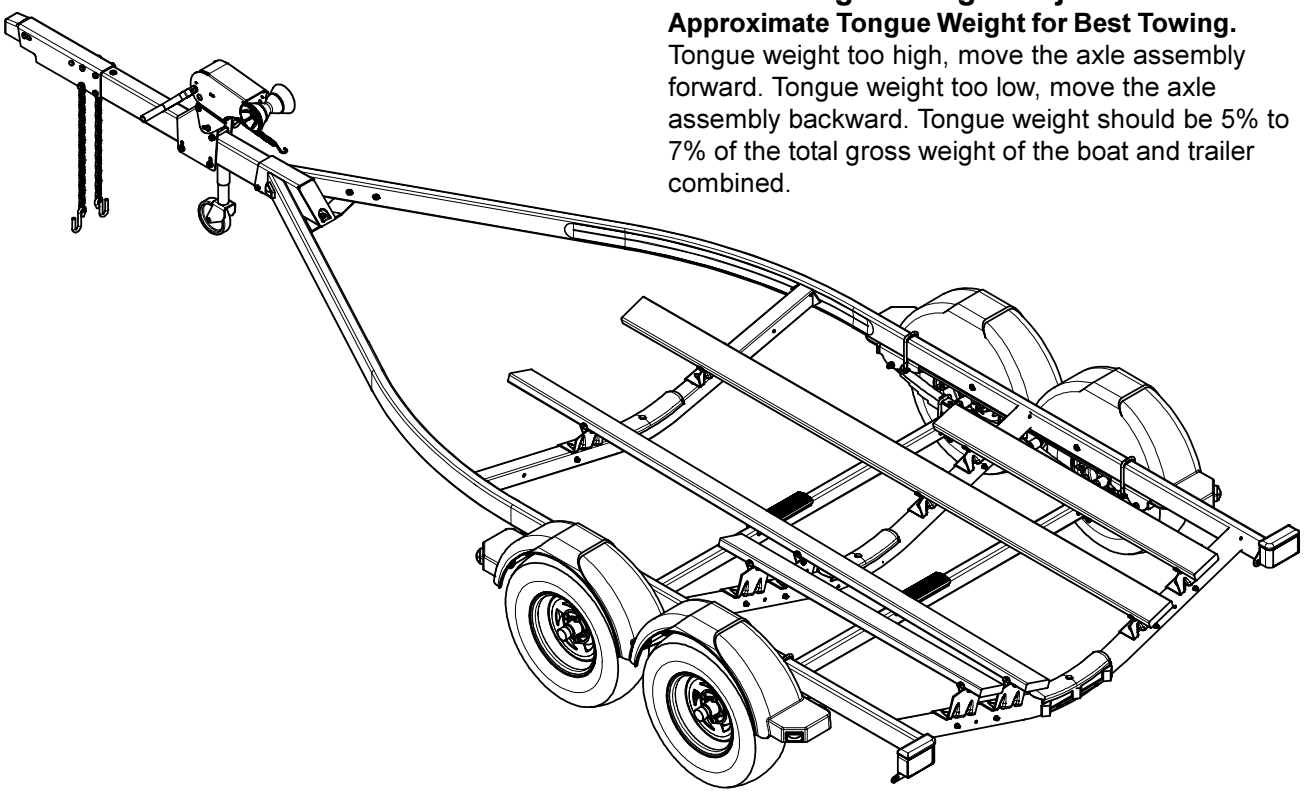
Tire Size & Carrying Capacity Chart

Tire Size	Load Range	Carrying Capacity
ST215/75R14	C	1870lbs.

Refer to tire side wall for correct tire pressure.

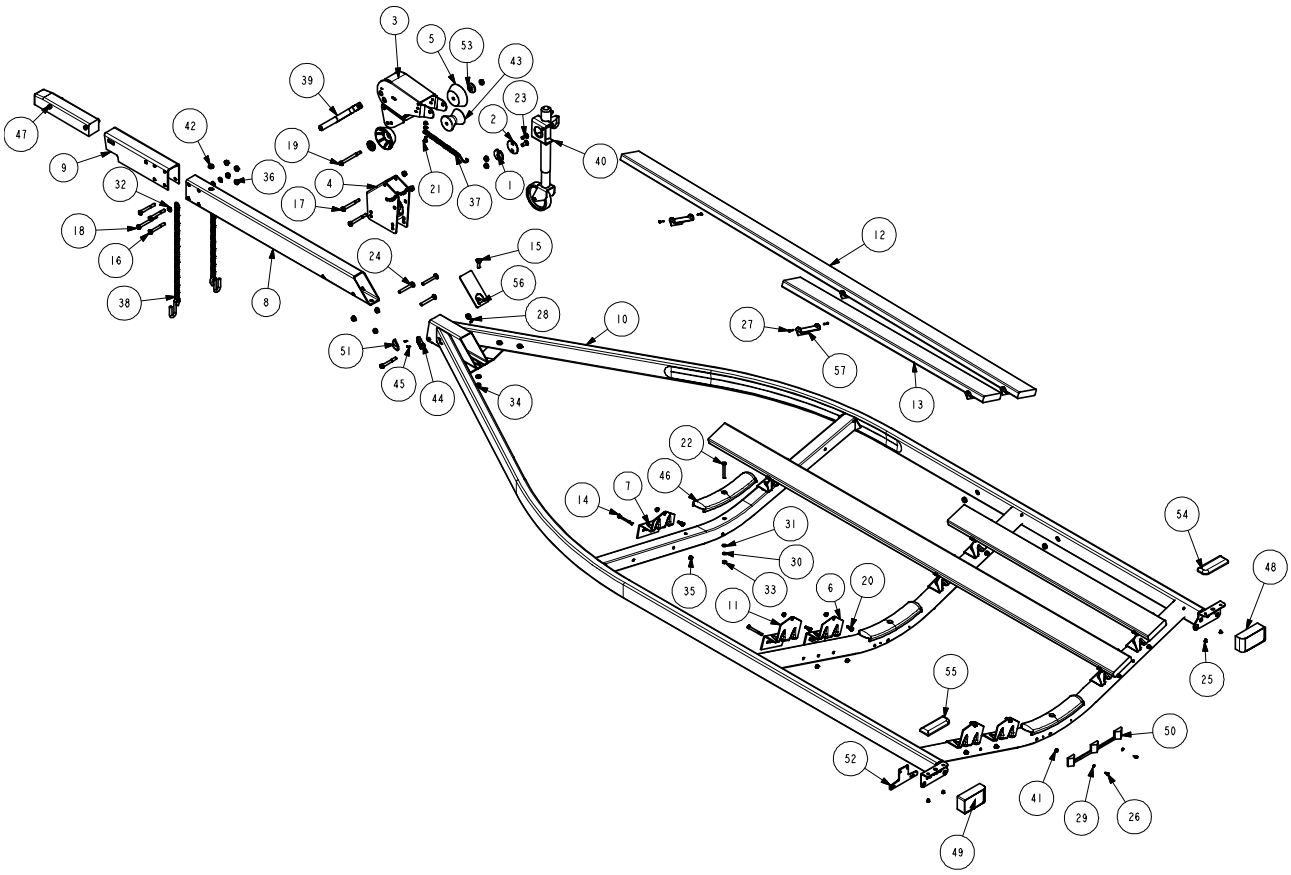
Tongue Weight Adjustment

Approximate Tongue Weight for Best Towing.
Tongue weight too high, move the axle assembly forward. Tongue weight too low, move the axle assembly backward. Tongue weight should be 5% to 7% of the total gross weight of the boat and trailer combined.



SR-V1946T MATERIAL LIST

REF#	PART#	DESCRIPTION	QTY
1	6034010	JACK INSIDE SPACER ZYU	1
2	6034110	JACK RETAINER PLATE ZYU	1
3	60929--	WINCH HOLDER CASE	1
4	60930--	WINCH POST 7IN	1
5	6107503	END CAP - BLACK PROFILE 2000	2
6	61292--	4-7/8" BUNK BRACKET	4
7	61294--	3-7/8" BUNK BRACKET	2
-	64145	BRAKELINE ASSY 186" W/COILS	1
8	65541--	TONGUE 3X5X55	1
--	65596--	TONGUE ASSEMBLY W/UFP ACTUATOR - 55”	
9	65542--	OUTER HOUSING FOR UFP ACTUATOR	1
-	65601	BRAKELINE ASSY 56"	1
10	66282--	FRAME WMENT 80 WIDE 190 LONG	1
11	66283--	5-1/2" BUNK BRACKET	4
12	66287--	BUNK ASSY W/BRKTS 10 FT SRV1940T	2
13	66288--	BUNK ASSY W/BRKTS 5FT SRV1940T	2
14	0110059	HH 3/8-16 X 3 3/4 CS GR5	10
15	0110096	HH 1/2" X 1-1/2"	1
16	0110114	HH 1/2-13 X 4 CS GR5	4
17	0110118	HH 1/2-13 X 4 1/2 CS GR5	2
18	0110120	HH 1/2-13 X 5 CS GR5	1
19	0110125	HH 1/2-13 X 5 1/2 CS GR5	1
20	0140040	HH 3/8-16 X 1 CS GR5	10
21	0210102	CARR 3/8-16 X 1 GR5	1
22	0210130	CARR 3/8-16 X 3 3/4 GR5	3
23	0210204	CARR 1/2-13 X 1 1/4 GR5	2
24	0210218	CARR 1/2-13 X 4 GR5	3
25	0810126	SCREW SELFTAPPING TYPE B 1/4X1/2	4
26	0810925	SCREW SELFDRILL HWH #10-16 X 3/4	2
27	0810930	SCREW SELFTAP #10-12X1 1/4 TYPE A	20
28	0810945	SCREW SELFDRILL 1/4-14X3/4	1
29	1310170	WASHER#10 USS FLAT	2
30	1340030	LOCKWASHER 3/8 S/T MED	3
31	1340095	WASHER USS FLAT 3/8	4
32	1340100	WASHER USS FLAT 1/2	3
33	1410109	HEX NUT FINISH 3/8-16	3
34	1410209	HEX LOCKNUT 1/2	1
35	1440101	FLANGE LOCKNUT SMALL 3/8-16	21
36	1440102	FLANGE LOCKNUT SMALL 1/2-13	13
37	2210145	CHAIN 1/4(7MM)X 10 LINKS	1
38	2220272	CHAIN 8/0 MACH CHAIN 37" W/837	2
39	3110237	WINCH HANDLE DL1802	1
40	3310050	800 LB SWIVEL JACK	1
41	3510022	GROMMET 7/16IN MOLDED	1
42	3510030	GROMMET 7/8IN MOLDED	11
43	3510065	4" BOW ROLLER - BLACK	1
44	3510122	LIGHT BEZEL - WHITE	2
45	3510158	PLASTIC DRIVE RIVOT	4
46	3510542	MOLDED REAR CROSSMEMBER PAD	3
47	3991012	ACTUATOR INNER	1
-	4510505	COUPLING - NO.302X3 WTHR-HD TUBE	1
48	5110013	TAILLIGHT CURVED LEFT	1
49	5110014	TAIL LIGHT CURVED RIGHT	1
50	5110045	3 LIGHT CLUSTER 1994 LEXAN	1
51	5110112	MARINE YELLOW CLEARANCE LIGHT	2
52	5110348	BO LICENSE PLATE BRACKET	1
-	5110349	HARNESS TONGUE 7FT	1
-	5110354	HARNESS FRAME 2X4 LEFT 17FT 2	1
-	5110355	HARNESS FRAME 2X4 RIGHT 17FT 2	1
-	5110365	WIRE 2X5 TANDEM FENDER RIGHT	2
-	5110455	DO-RAY DOUBLE GROUND WIRE	1
53	LH308	CUP WASHER	2
54	S-3390	STEP PAD RIGHT 2 1/2 X 7	1
55	S-3391	STEP PAD LEFT 2 1/2 X 7	1
56	S-3510	TONGUE COVER PLATE	1
57	S-3179G	2X6 BUNK BRKT SPUN GALV.	10



NOTE: ShoreLand'r offers their product line in either galvanized or painted finish. When ordering parts it is important that you specify the finish or color you have on your product. The five digit number along with a two digit space _ _, notes the parts which can be purchased with various finishes. When ordering these items use the five digit prefix and include the following two digit suffix for proper finish.

Finish / Color	Suffix
Galvanized	00 or G
Pearl White	08 or PW
Black	03 or BK
Green	13 or GN
Blue	14 or BL

Parts Drawing

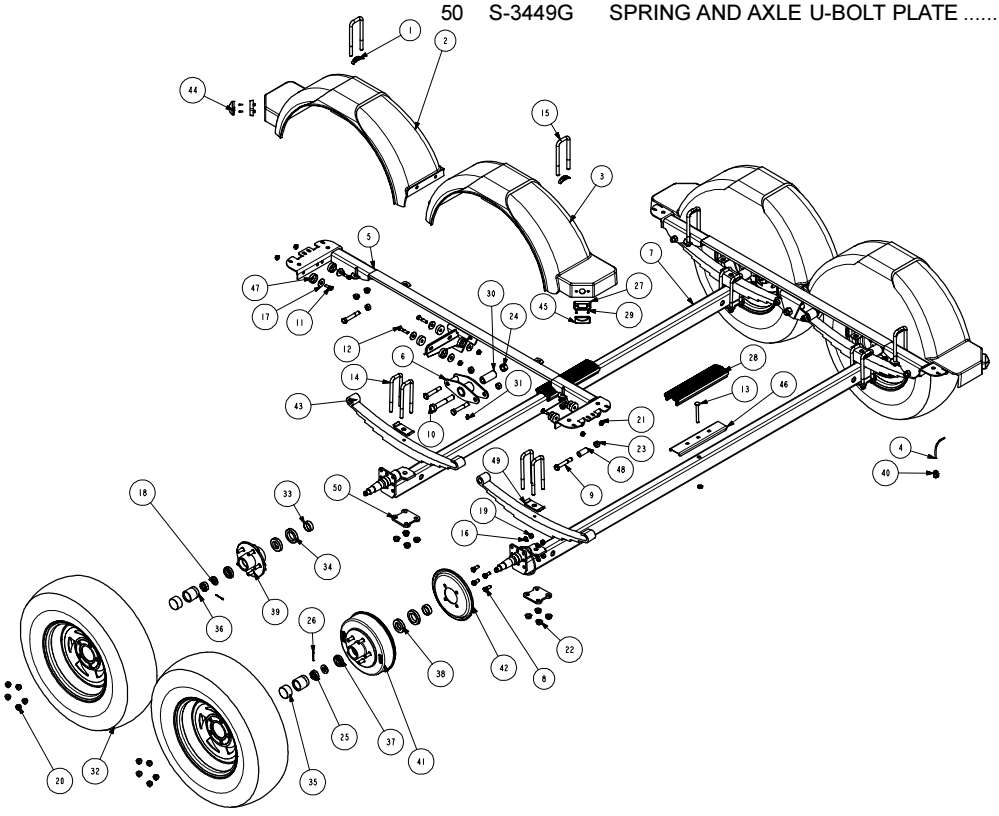
NOTE: Optional equipment and replacement parts must be purchased through an authorized ShoreLand'r dealer.

DECALS:

4811334	Decal Grease Zerk Arrow	2
4850378	Decal Sea Ray	2
4850184	Decal for Coated UFP Actuator	1
4810709	Decal Trailer Caution/Warning	1
4811349	Decal Profile 2000	2
4811358	Decal Clr W/Black Letters Profile	1
4811357	Decal Clr W/White Letters Profile	1
4850360	Decal NMMA Certified Trailer	1

REF#	PART#	DESCRIPTION	QTY
1	4279	SHIM PAD U BOLT 12GA FRAME	4
2	60954--	FENDER 10IN POLY	2
3	60955--	FENDER 10IN POLY	2
4	61213	BRAKELINE ASSY 6 1/2IN	1
5	62384--	SPRING BRKT 10IN TANDEM	2
6	6239210	TANDEM BOGIE 2X5	2
7	66155--	AXLE WMENT (74 WIDE)	2
8	0110080	HH 7/16-14 X 1 CS GR5	8
9	0110170	HH 9/16-18 X 3 1/4 CS GR5	8
10	0110282	HH 3/4-10 X 4 1/2 CS GR5	2
11	0140040	HH 3/8-16 X 1 CS GR5	8
12	0140047	HH 3/8-16 X 1 3/4 CS GR5	4
13	0210130	CARR 3/8-16 X 3 3/4 GR5	2
14	0310170	SUB 1/2" X 2-5/16"X6-1/2	8
15	0310276	SUB 1/2 X 2 9/16 X 6 1/2	4
16	1310035	LOCKWASHER 7/16 S/T	8
17	1310163	WASHER 1.377 OD X .390 ID	16
18	1340206	WASHER 1.5 OD X .765 ID X .186/.206	4
19	1410149	HEX NUT FINISH 7/16-14	8
20	1410229	HEX LUGNUT 1/2-20 13/16 OD Z&U	20
21	1440101	FLANGE LOCKNUT SMALL 3/8-16	14
22	1440102	FLANGE LOCKNUT SMALL 1/2-13	24
23	1440259	HEX LOCKNUT 9/16-18 GRA	8
24	1440319	HEX LOCKNUT 3/4-10 GRB	2
25	1440349	HEX NUT SLOTTED PLAIN	4

REF#	PART#	DESCRIPTION	QTY
26	1540038	COTTER KEY 1/8 X 1 1/2	4
27	3510122	LIGHT BEZEL - WHITE	4
28	3510132	AXLE PAD 12IN BLK	2
29	3510158	PLASTIC DRIVE RIVOT	8
30	3610050	BUSHING 3/4 IDX1 ODX1 1/2 BRONZE	2
31	3620211	ZERK 1/4-28 STRAIGHT GREASE	2
32	4300198	ST215/75R 14C TIRE/GALV. DIR RIM	4
--	4300199	ST215/75R 14C TIRE/MSILVER DIR RIM	4
33	4410089	SPINDLE SLEEVE 1 1/4-3/4IN BRG	4
34	4410130	SEAL 1 3/8IN	4
35	4410246	SL BEARING PROTECTOR BRA	4
36	4410247	BEARING BUDDY - STAINLESS STEEL	4
37	4440160	ROLLER BEARING 1 1/16IN	4
38	4440170	ROLLER BEARING 1 3/8IN	4
39	4470400	HUB 1 3/8 X 1 1/16 CAST	2
40	4510510	TEE W/O CLIP - FRAME LINE- 702X3	1
-	4510511	HOSE - 18" MALE-FEMALE BRAKE	1
41	4540015	DICO 10" BRAKE DRUM	2
42	4540062	10" PREMIER FREE BACKING	2
43	4610073	SPRING 5 LEAF HOOK	4
44	5110112	MARINE YELLOW CLEARANCE LIGHT	2
45	5110113	MARINE RED CLEARANCE LIGHT	2
46	S-3387	2" PLASTIC CHANNEL BRACKET	2
47	S-3501	RUBBER CUP WASHER	16
48	S-3207G	SPRING BRKT BUSHING PLATED ZYU	4
49	S-3409G	SPRING CLAMP 1/4X1 1/2X4 ZYU	4
50	S-3449G	SPRING AND AXLE U-BOLT PLATE	4



SR-V1946T Final Assembly Instructions

Rocker Boxes:

Align the center of the hole of the rocker arm with the center hole of the spring bracket. Secure with a 3/4" X 4-1/2" hex bolt from the outside-in and tighten with a 3/4" hex lock nut.

Axle/Springs:

Fasten the springs to the axle with a 1/2" square u-bolt over the spring clamp (Ref.#49) and then over the axle. Secure the legs of the u-bolts to the u-bolt plate (Ref.#50) and tighten with 1/2" flange lock nuts. **NOTE:** Make certain the hook end of the springs point in same direction to the rear of the trailer, on both axles! For the rear spring and axle place a galvanized spring bracket bushing in the rear of the spring bracket. Insert a 9/16" X 32-1/4" hex bolt through the bracket from the outside-in and tighten with 9/16" hex lock nuts. Slide the end of the hook spring over the bushing just installed; raise the front of spring and fasten with a 9/16" X 3-1/4" hex bolt and a 9/16" hex lock nut. Repeat on the other side. Tighten all nuts and bolts but do not over tighten. Allow the spring room enough to move.

For installation of the front spring and axle repeat the above procedure, however, place the bushing in the rocker box in the hook end of the spring. Insert the bolts and secure with hex lock nuts as before.

Mount the tires and rims using 80-90 ft. lbs. torque on lug nuts using proper tightening procedures.

Tongue:

Install the tongue assembly into the tongue channel of the trailer frame. Thread the tongue harness through the tongue plate cover. Secure the tongue plate cover (Ref.#56) and the rear of the tongue assembly with a 1/2" X 1-1/2" hex bolt, 1/2" flat washer and 1/2" hex lock nut. Tighten both bolts. Tighten bolts but do not over tighten. Match tongue harness wires with the correct frame harness wires, plug-in. Wiring is complete.

Safety Chain:

Using a ½" X 5" hex bolt on lower right mounting hole on tongue, secure the safety chain. Place a ½" flat washer on ½" X 5" hex bolt followed by one safety chain and insert into actuator housing unit and tongue. Place the second safety chain on the bolt followed by a ½" flat washer and ½" flange lock nut. Tighten.

Brakes:

Refer to the brake manual for service and maintenance.

Winch:

Mount the *Profile 2000* winch assembly with jack on the tongue in a desired location that best fits your watercraft using three (3) 1/2" X 4" carriage bolts and 1/2" flange lock nuts. Install the winch handle on the *Profile 2000* winch shaft.

Bunks:

Install and secure the 2X6 bunk onto the bunk brackets with 3/8" X 1" hex bolts and 3/8" flange lock nuts. Make sure the bunks are positioned so that the bunk bracket attached to the bunk and the bracket attached to the frame are mounted together so that you have metal to metal stops to keep the bunks from pivoting to far. Tighten as far as possible but still allow the bunk to fully pivot side to side.

Assembly should be complete except for tightening some of the bolts. These bolts were left loose to aid in adjusting the trailer to the boat only. All bolts and nuts must be tightened before towing.

NOTE: The law requires that the white ground wire on both the tongue wire harness and vehicle harness be properly grounded to respective trailer and vehicle frames.

Trailer Adjustments

Before adjusting the winch post check to see that the transom of the boat is flush with rear of the bunks.

Place the boat onto the trailer so that it is resting on the bunks. The transom must be flush with bunks at the rear of the trailer. Once the boat is positioned as described above, make the following adjustments.

Winch Post:

Slide the winch post into position. Note that the winch holder (upper portion) must be positioned just above the bow eye. Run the winch strap over the upper nylon bushing in the winch case and secure to bow eye. Tighten all bolts on the winch post. Slip the bow eye safety chain into the bow eye. Adjustment is complete. Check the tongue weight.

NOTE: Double-check all nuts and bolts to insure that they are properly tightened before towing.