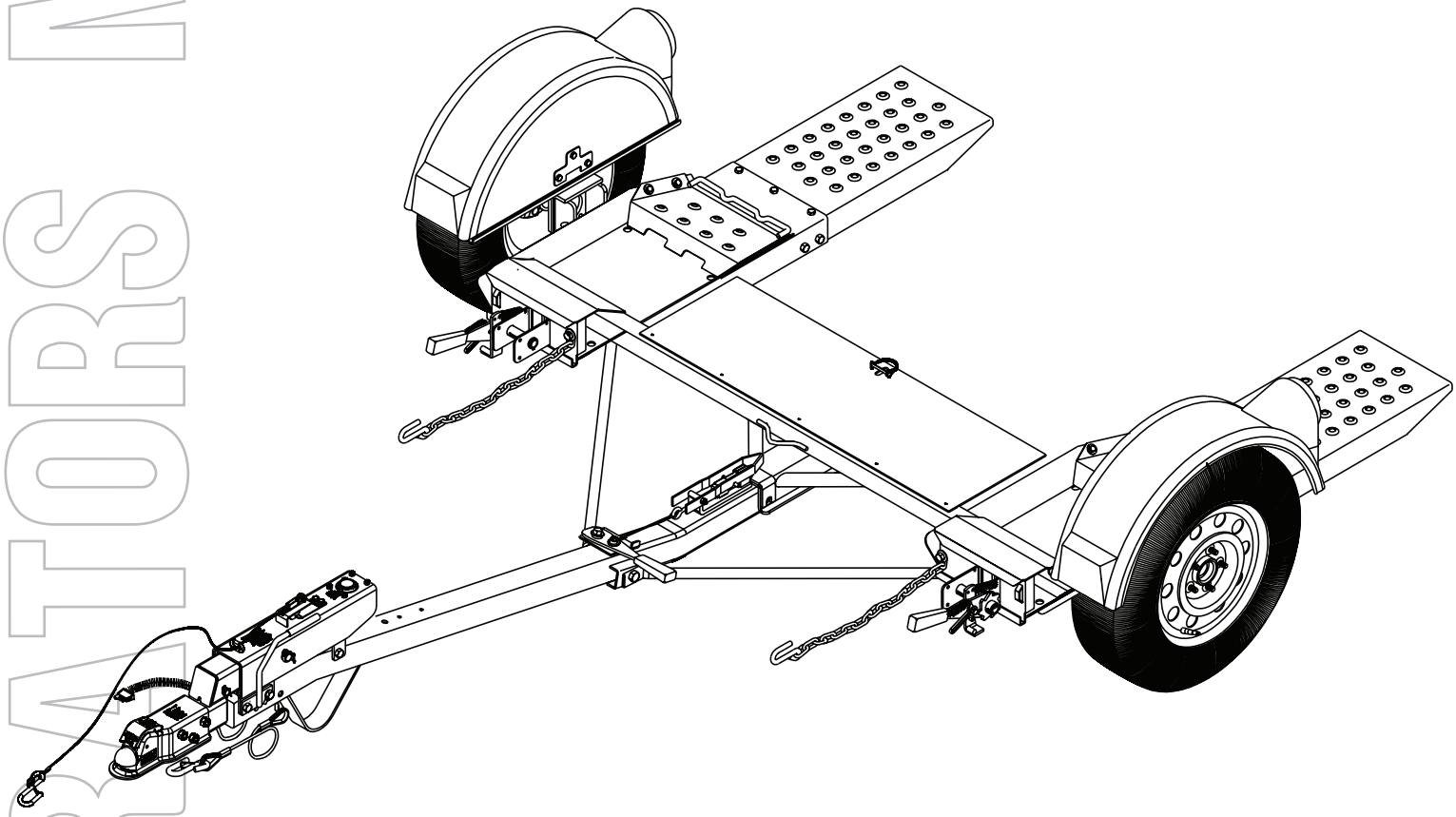
OPERATORS MANUAL

Demco

4/18
RD20019 Rev. 7

ISO 9001:2008 Certified
BOYDEN, IA

Tow-It 2



ASSEMBLY
CALIBRATION
OPERATION
REPLACEMENT PARTS

READ *complete manual CAREFULLY BEFORE attempting operation.*

Doing Our Best To Provide You The Best

WARRANTY POLICY, OPERATOR MANUALS & REGISTRATION

Go online to www.demco-products.com to review Demco warranty policies, operator manuals and register your Demco product.

TABLE OF CONTENTS

WARNING: **To Prevent Serious Injury Or Death**

- Exceeding weight limitations or not using a towing vehicle larger and at least 1,000 lbs. heavier than the tow dolly and the towed vehicle combined can result in loss of towing vehicle control, separation of the tow dolly from the towing vehicle, or separation of the towed vehicle from the tow dolly
- All vehicles to be towed on Demco Tow Dollies must be towed with the front axle on the dolly.

It is recommended that two people set-up and load this piece of equipment

If you are planning to tow a new or late model full size car, we recommend the 8-1/2' wide unit.

"Reporting Safety Defects"

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying DEMCO.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or DEMCO.

To contact NHTSA, you may either call the Auto Safety Hot line toll-free at 1-800-424-9393 (or 366-0129 in Washington, D.C. area) or write to:

NHTSA,
U.S. Department of Transportation
Washington, D.C. 20590.

You can also obtain other information about motor vehicle safety from the Hot line.

SAFETY

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.

THIS SYMBOL MEANS

-ATTENTION

-BECOME ALERT

-YOUR SAFETY IS INVOLVED!

SIGNAL WORDS

Note the use of the following signal words **DANGER**, **WARNING**, and **CAUTION** with the safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER:

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING:

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION:

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have questions not answered in this manual, require additional copies, or if your manual is damaged, please contact your dealer or Demco, 4010 320th Street, Boyden, IA 51234
ph: (712) 725-2311 Toll Free: 1-800-543-3626 Fax: (712) 725-2380 http://www.demco-products.com

SAFETY...YOU CAN LIVE WITH IT

EQUIPMENT SAFETY GUIDELINES

Every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You the operator, can avoid many accidents by observing and following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or you yourself, follow them.

In order to provide a better view, certain illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace shield prior to use.

Replace any caution, warning, danger or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Do not attempt to operate this equipment under the influence of alcohol or drugs.

Review safety instructions with all users.

Operator should be a responsible adult. **DO NOT ALLOW PERSONS TO OPERATE OR ASSEMBLE THIS UNIT UNTIL THEY HAVE DEVELOPED A THOROUGH UNDERSTANDING OF SAFETY PRECAUTIONS AND HOW IT WORKS.**

Do not paint over, remove, or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice instructions on them.

Never exceed limits of a piece of machinery. If its ability to do a job, or to do so safely is in question-**DON'T TRY IT**.

LIGHTING AND MARKING

It is the responsibility of the customer to know the lighting and marking requirements of the local highway authorities and to install and maintain the equipment to ,provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility.

Lighting kits are available from your dealer or from the manufacturer.

REMEMBER

Your best assurance against accidents is a careful and responsible operator. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or the manufacturer.

SAFETY SIGN CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replace parts that displayed a safety sign should also display the current sign.
- Safety signs are available from your distributor, dealer parts department, or the factory.

How to install safety signs:

- Be sure that the installation area is clean and dry.
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.

- Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal into place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.

TIRE SAFETY

- Failure to follow proper procedures when mounting a tire on a rim can produce an explosion which may result in a serious injury or death.
- Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
- Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment.

BEFORE OPERATION:

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- Keep wheel and lug nuts tightened to specified torque.
- Assure tires are inflated evenly.
- Give the unit a visual inspection for any loose bolts, worn parts, or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.
- Be sure there are no tools lying on or in the equipment
- Do not use the unit until you are sure that the area is clear, especially around children and animals.
- Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.
- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with it's operation before using.
- Make sure that the brakes are evenly adjusted (if equipped with brakes)
- Securely attach to towing unit. Use a high strength, appropriately sized hitch pin with a mechanical retainer and attach a safety chain.
- Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the equipment.
- Make Sure the tow rating on vehicle is high enough for what it is towing.

DURING OPERATION

- **SAFETY CHAIN** -A safety chain must be obtained and installed. Always follow state and local regulations regarding safety chain and auxiliary lighting when towing equipment on a public high way. Be sure to check with local law enforcement agencies for your own particular regulations. Only a safety chain (not an elastic or nylon/plastic tow strap) should be used to retain the connection between the towing and towed machines in the event of separation of the primary attaching system.

- Install the safety chains by criss crossing chains under tongue and secure to draw bar cage, mounting loops, or bumper frame.

- Beware of bystanders, **PARTICULARLY CHILDREN!** Always look around to make sure that it is safe to start the engine of the towing vehicle or move the unit. This is particularly important with higher noise levels, as you may not hear people shouting.

- **NO PASSENGERS ALLOWED**- Do not carry passengers anywhere on or in equipment.

- Do not clean, lubricate, or adjust your equipment while it is moving.

- When halting operation, even periodically, set the or towing vehicle brakes, shut off the engine, and **remove the ignition key**.

- Be extra careful when working on inclines.

- **Maneuver towing vehicle at safe speeds.**

- Avoid loose fill, rocks, and holes; they can be dangerous for equipment operation or movement.

- Allow for unit length when making turns.

- Keep all bystanders and pets clear of the work area.

- Operate the towing vehicle from the operators seat only.

- Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside of unit.

- Never leave running equipment attachments unattended.

- As a precaution, always recheck the hardware on equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.

FOLLOWING OPERATION

- Following operation, or when unhitching, stop the towing vehicle, set the brakes, shut off the engine and **remove the ignition keys**.

- Store the unit in an area away from human activity.

- Do not permit children to play on or around the stored unit.

- Make sure all parked machines are on a hard, level surface and engage all safety devices.

- Wheel chocks may be needed to prevent unit from rolling.

HIGHWAY AND TRANSPORT OPERATIONS

- Adopt safe driving practices:

  - Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop.

  - Reduce speed prior to turns to avoid the risk of overturning.

  - Always keep the towing vehicle in gear to provide engine braking when going downhill. Do not coast.

  - Do not drink and drive!

- Comply with state and local laws governing highway safety on public roads.
- Use approved accessory lighting flags and necessary warning devices to protect operators of other vehicles on the highway during transport. Various safety lights and devices are available from your dealer.
- Local laws should be checked for all highway lighting and marking requirements.
- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight at which you are operating.
- Watch for obstructions overhead and to the side while transporting.
- Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.

PERFORMING MAINTENANCE

- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
- Before working on this machine, stop the towing vehicle, set the brakes, shut off the engine and **remove the ignition keys**.
- Be certain all moving parts and attachments have come to a complete stop before attempting to perform maintenance.
- **Always** use a safety support and block wheels. Never use a jack to support unit.
- Always use the proper tools or equipment for the job at hand.
- Use extreme caution when making adjustments.
- Follow the torque chart in this manual when tightening bolts and nuts.
- Openings in the skin and minor cuts are susceptible to infection from brake fluid.
  Without immediate medical treatment, serious infection and reactions can occur.
- Replace **all shields** and guards after servicing and before moving.
- After servicing, be sure all tools, parts and service equipment are removed.
- Do not allow grease or oil to build up on the actuator, any step, or platform.
- When replacing bolts, refer to the owner's manual.
- Refer to bolt torque chart for head identification marking.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The Manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.
- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment
- Periodically check all bolts and nuts to insure proper tension or torque.
- Grease the center pivot pin every **1500** miles.
- An occasional drop of oil may be required on the moving parts of the tie-down winch.

PRECHECK AND LOADING

Safety is of utmost importance at all times. There are several items that must be checked each time before using and while using the tow dolly.

Make sure all bolts are properly tightened and those requiring a set torque are up to specifications:
Lug Nuts - 120 ft. lbs.
Check lug nut tension after the first 5 miles and periodically thereafter.

The tires must be inflated to the recommended PSI (located on side of tire).

The ball hitch must latch securely around the ball and the safety ball clamp must be in position to lock the hitch on the ball.

RECOMMENDED BALL HEIGHT: 18" to the top of the ball.

The transport safety chains must be hooked to the frame of the towing vehicle and the towed vehicle safety chain must be hooked to the towed vehicle frame directly above the area where the chain is mounted on the tow dolly. Leave some slack in the chain to allow suspension movement.

Caution the user not to attempt to back-up the tow dolly as damage may be done to the tow dolly and/or the vehicle being towed.

Check to make sure that all lights are in proper working order.

Examine the ramps, winches and straps, making sure they are in good condition.

Be certain the safety lock pin is locking the strap winch.

Re-tighten straps after the first 5 miles and every 50 miles thereafter to ensure that they are tight.

The strap on the optional winch must be in good condition and should be wound neatly on winch when not in use.

NOTE: The winch strap must not be left connected to the towed vehicle after it is loaded and strapped down.

IMPORTANT LOADING INSTRUCTION
Check your wheel tie-down straps.

Your tow dolly is equipped with custom made wheel tie-down straps of a standard size that will fit most tires, however if your tires are too large or too small you will want to exchange these new straps for the proper size straps.

1. **Tire too large -** This is very obvious. The strap will not basket over the tire properly. Call us. We will provide at NO Charge, on an exchange basis, the proper size strap. You must return your new, unused straps and provide us with the Make and Model of your car and the tire size.

2. **Tire too small -** This is not as obvious. The basket will fit down over the tire very well. The problems cannot be readily seen. You must tighten the straps down solid and then check on the inside of the tire and be sure the strap, **when tightened, does not come in contact with any metal that may cause wear or cutting such as strut mounts.** If there is contact, you need a smaller strap. Call us. We will provide on a NO Charge, exchange basis, the proper size strap. You must return your new, unused straps and provide us with the Make and Model of your car and tire size.

WARNING: To Prevent Serious Injury Or Death

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN LOSS OF TOWING VEHICLE CONTROL, SEPARATION OF THE TOW DOLLY FROM THE TOWING VEHICLE, SEPARATION OF THE TOWED VEHICLE FROM THE TOW DOLLY

REMINDER: Check lighting for proper operation before heading down the road.

1. Check that the WHITE ground wire of the wiring harness is connected to the tow dolly frame and the WHITE (ground) wire is connected to the frame of the towing vehicle.
2. With headlights in "ON" position, the taillight should be lighted.
3. Start engine and have someone depress brake pedal. Brake lights of the tow dolly and towing vehicle should come "on" and "off" simultaneously with each application.
4. Put left turn signal on. Left turn light of tow dolly and towing vehicle should flash simultaneously. Should the turn signal light of the tow dolly function opposite to those of the towing vehicle, it is probable that the YELLOW and GREEN wires have been reversed. Check the plug connection under the tongue of the tow dolly to make sure wire colors are not crossed at that point. If plug connection is correct, correct problem by reversing yellow and green wire connection on the towing vehicle.

The owner assumes all responsibility for the towing vehicle's fitness and suitability to perform the towing task in a safe, legal, and reliable manner. These responsibilities include, but are not limited to:

- Compliance with towing restrictions as stated by the towing vehicle's owners manual and/or manufacturer.
- Towing vehicle must have as a minimum a Class 3-5,000 lb.(for non-brake units) or a Class 4-6,000 lb.(for brake units) hitch and hitch ball. Do not use any other size hitch ball.
- Towing vehicle must be in good condition.
- Towing vehicle must have a current federal and/or state inspection where applicable, and comply with any applicable laws.
- The towing vehicle's weight must be substantially greater (at least 1000 lbs.) than the weight of the tow dolly and towed vehicle combined.
- Make sure all lights are properly hooked up and operating at all times.
- Towing vehicle's hitch must be approximately 18 inches off the ground (measured to the top of the ball). Make sure that the hitch and hitch ball are in good condition and not rusted, loose or stripped. Both the hitch and the hitch ball must be securely attached to the towing vehicle.
- Reading and following these instructions.

TOWED VEHICLE
WEIGHT & SIZE LIMITATIONS:

Tread Width	42" Min.	68" Max.
Body Width	68" Max.	
	FWD	
TI210SB	4800 lbs.	

FWD = Front Wheel Drive Towed Vehicle

Do not load the towed vehicle with cargo. Towed vehicles exceeding weight limits will overload the tow dolly and may cause serious injury and damage to both the towed vehicle and dolly. Do not load a towed vehicle exceeding the width limit - it will obstruct the platform's swivel action when underway and could damage the towed vehicle and/ or the tow dolly.

Do not exceed 55 miles per hour or any lower posted speed limit.

WARNING

Check your vehicle owners manual or registration for vehicle weight. Towing vehicle must be larger and at least 1000 lbs. heavier than the towed vehicle and tow dolly combined.

Warning

Examine ramps, winches and straps to make sure they are in good condition. Check wheel nuts every trip.

To check the towing system after hook-up, tow about 100 feet. Then stop and perform a safety check. Check the bolts, chains, tire straps, ramps, coupler latch and other items, to ensure that they are tight. In addition, check all taillights and stoplights to make sure that they are operating properly. Repeat the safety check after the first 5 miles and every 50 miles thereafter.

Tire inflation must be maintained per recommendation of tire manufacturer (located on side wall of tire).

Tire pressure may increase during travel - do not bleed off this increase in pressure.

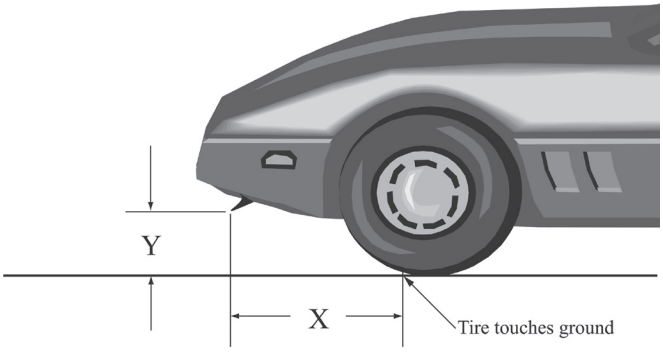
Recheck coupler to be sure it is properly secured to the ball. Check tightness of coupler latch. **DD164**

rev. 3-94

Loading Angle Clearance Guide
Tow It Loading Angle = 16°

IMPORTANT:
Using this guideline will reduce the chance of the towed vehicles air dam, or bottom of facia from interfering with tow dolly platform and/or tire stop. **"X"** must be less than 3.5 x **"Y"**.

Example: If **Y** measures 6"
3.5 x 6 = 21
X must measure less than 21"



NOTE: User's responsibility for checking clearance. If "Y" is less than 3.5", interference may occur.

BOLT TORQUE
TORQUE DATA FOR STANDARD NUTS, BOLTS, AND CAPSCREWS.

Tighten all bolts to torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt chart as guide. Replace hardware with same grade bolt.

NOTE: Unless otherwise specified, high-strength Grade 5 hex bolts are used throughout assembly of equipment.

Torque Specifications

Torque Lug Nuts to 120 FT/LBS

Bolt Torque for Standard bolts *

	GRADE 2		GRADE 5		GRADE 8	
"A"	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
1/4"	6	(8)	9	(12)	12	(16)
5/16"	10	(13)	18	(25)	25	(35)
3/8"	20	(27)	30	(40)	45	(60)
7/16"	30	(40)	50	(70)	80	(110)
1/2"	45	(60)	75	(100)	115	(155)
9/16"	70	(95)	115	(155)	165	(220)
5/8"	95	(130)	150	(200)	225	(300)
3/4"	165	(225)	290	(390)	400	(540)
7/8"	170	(230)	420	(570)	650	(880)
1"	225	(300)	630	(850)	970	(1310)

Bolt Torque for Metric bolts *

	CLASS 8.8		CLASS 9.8		CLASS 10.9	
"A"	lb-ft	(N.m)	lb-ft	(N.m)	lb-ft	(N.m)
6	9	(13)	10	(14)	13	(17)
7	15	(21)	18	(24)	21	(29)
8	23	(31)	25	(34)	31	(42)
10	45	(61)	50	(68)	61	(83)
12	78	(106)	88	(118)	106	(144)
14	125	(169)	140	(189)	170	(230)
16	194	(263)	216	(293)	263	(357)
18	268	(363)	--	--	364	(493)
20	378	(513)	--	--	515	(689)
22	516	(699)	--	--	702	(952)
24	654	(886)	--	--	890	(1206)

Torque 11MM caliper bolts to 40 ft/lbs

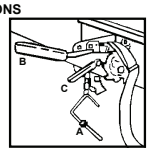
Torque figures indicated are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* GRADE or CLASS value for bolts and capscrews are identified by their head markings.

Decal Location

WINCH OPERATING INSTRUCTIONS

Remove winch lock pins (**A**) from strap winches on front of tow dolly.
Release winch: Grasp handle (**B**) squeeze trigger (**C**) push down and pull all excess strap from winch. Lay tire strap to outside of tow dolly.
Tighten straps: Place tire straps over tires centering straps and winches to tires. While tightening straps, pull cross straps forward to ensure even tightening. Tighten straps until each tire starts to flatten against tire stop. After strap is tight, insert lock pin and make sure handle is in horizontal position.



REV 2 DD21016

A. DD21016 QTY. 2

Keep wheel lug nuts or bolts tightened to specified torque.
Maintain tire pressure at 50 P.S.I. cold REV 1 DA21001

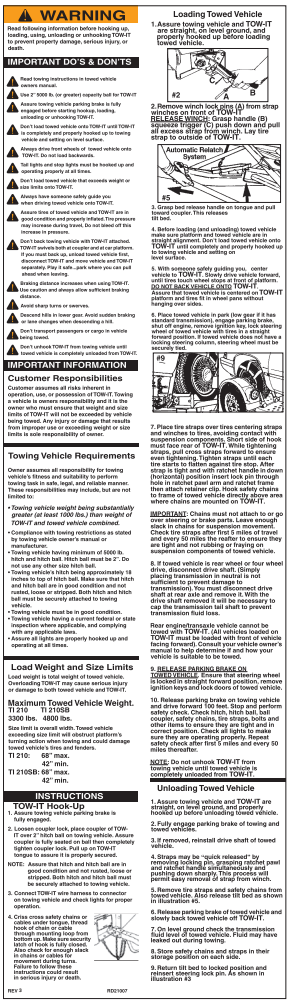
B. DA21001 QTY. 2

RD21008
Keep wheel nut torque to 120 ft. lbs.
Maintain tire pressure at 50 P.S.I. Cold

C. RD21008 QTY. 2

TOW-IT™ 2 By Demco

E. DD21021 QTY. 4



WARNING

Read following information before hooking up, loading, using, unloading or unhooking TOW-IT to prevent property damage, serious injury, or death.

IMPORTANT DO'S & DON'TS

- Read towing instructions in towed vehicle owners manual.
- Use 2" 5000 lb. (or greater) capacity ball for TOW-IT
- Assure towing vehicle parking brake is fully engaged before starting hookup, loading, unloading or unhooking TOW-IT.
- Don't load towed vehicle onto TOW-IT until TOW-IT is completely and properly hooked up to towing vehicle and setting on level surface.
- Always drive front wheels of towed vehicle onto TOW-IT. Do not load backwards.
- Tail lights and stop lights must be hooked up and operating properly at all times.
- Don't load towed vehicle that exceeds weight or size limits onto TOW-IT.
- Always have someone safely guide you when driving towed vehicle onto TOW-IT.
- Assure tires of towed vehicle and TOW-IT are in good condition and properly inflated. Tire pressure may increase during travel. Do not bleed off this increase in pressure.
- Don't back towing vehicle with TOW-IT attached. TOW-IT swivels both at coupler and at car platform. If you must back up, unload towed vehicle first, disconnect TOW-IT and move vehicle and TOW-IT separately. Play it safe...park where you can pull ahead when leaving.
- Braking distance increases when using TOW-IT. Use caution and always allow sufficient braking distance.
- Avoid sharp turns or swerves.
- Descend hills in lower gear. Avoid sudden braking or lane changes when descending a hill.
- Don't transport passengers or cargo in vehicle being towed.
- Don't unhook TOW-IT from towing vehicle until towed vehicle is completely unloaded from TOW-IT.

IMPORTANT INFORMATION

Customer Responsibilities

Customer assumes all risks inherent in operation, use, or possession of TOW-IT. Towing a vehicle is owners responsibility and it is the owner who must ensure that weight and size limits of TOW-IT will not be exceeded by vehicle being towed. Any injury or damage that results from improper use or exceeding weight or size limits is sole responsibility of owner.

Towing Vehicle Requirements

Owner assumes all responsibility for towing vehicle's fitness and suitability to perform towing task in safe, legal, and reliable manner. These responsibilities may include, but are not limited to:

- *Towing vehicle weight being substantially greater (at least 1000 lbs.) than weight of TOW-IT and towed vehicle combined.*
- Compliance with towing restrictions as stated by towing vehicle owner's manual or manufacturer.
- Towing vehicle having minimum of 5000 lb. hitch and hitch ball. Hitch ball must be 2". Do not use any other size hitch ball.
- Towing vehicle's hitch being approximately 18 inches to 24 inches above ground. Hitch and hitch ball are in good condition and not rusted, loose or stripped. Both hitch and hitch ball must be securely attached to towing vehicle.
- Towing vehicle must be in good condition.
- Towing vehicle having a current federal or state inspection where applicable, and complying with any applicable laws.
- Assure all lights are properly hooked up and operating at all times.

Load Weight and Size Limits

Load weight is total weight of towed vehicle. Overloading TOW-IT may cause serious injury or damage to both towed vehicle and TOW-IT.

Maximum Towed Vehicle Weight.

TI 210	TI 210SB
3300 lbs.	4800 lbs.

Size limit is overall width. Towed vehicle exceeding size limit will obstruct platform's turning action when towing and could damage towed vehicle's tires and fenders.

TI 210: 68" max. 42" min.

TI 210SB: 68" max. 42" min.

INSTRUCTIONS

TOW-IT Hook-Up

1. Assure towing vehicle parking brake is fully engaged.
2. Loosen coupler lock, place coupler of TOW-IT over 2" hitch ball on towing vehicle. Assure coupler is fully seated on ball then completely tighten coupler lock. Pull up on TOW-IT tongue to assure it is properly secured.

NOTE: Assure that hitch and hitch ball are in good condition and not rusted, loose or stripped. Both hitch and hitch ball must be securely attached to towing vehicle.

3. Connect TOW-IT wire harness to connector on towing vehicle and check lights for proper operation.
4. Criss cross safety chains or cables under tongue, thread hook on safety chain through mounting loop from bottom up. Make sure security latch of hook is fully closed. Adjust chain length so slack in chains or cables allows movement during turns. Failure to follow these instructions could result in serious injury or death.

Loading Towed Vehicle

1. Assure towing vehicle and TOW-IT are straight, on level ground, and properly hooked up before loading towed vehicle.

#2

2. Remove winch lock pins (A) from strap winches on front of TOW-IT RELEASE WINCH. Grasp handle (B) squeeze trigger (C) push down and pull all excess strap from winch. Lay tire strap to outside of TOW-IT.

#5

3. Grasp bed release handle on tongue and pull toward coupler. This releases tilt bed.
4. Before loading (and unloading) towed vehicle make sure platform and towed vehicle are in straight alignment. Don't load towed vehicle onto TOW-IT until completely and properly hooked up to towing vehicle and setting on level surface.
5. With someone safely guiding you, center vehicle to TOW-IT. Slowly drive vehicle forward, until tires touch wheel stops at front of platform. DO NOT BACK VEHICLE ONTO TOW-IT. Assure that towed vehicle is centered on TOW-IT and that tires are not in wheel pans without hanging over sides.
6. Place towed vehicle in park (low gear if it has standard transmission), engage parking brake, shut off engine, remove ignition key, lock steering wheel of towed vehicle with tires in a straight forward position. If towed vehicle does not have a locking steering column, steering wheel must be securely tied.

#9

7. Place tire straps over tires centering straps and winches to tires, avoiding contact with exhaust system components. Tire straps hooks must face rear of TOW-IT. While tightening straps, pull cross straps forward to ensure even tightening. Tighten straps until each tire starts to flatten against tire stop. After strap is tight and with ratchet handle in down (horizontal) position insert lock pin through hole in ratchet pawl arm and ratchet frame then attach retainer clip. Hook safety chains to frame of towed vehicle directly above area where chains are mounted on TOW-IT.

IMPORTANT: Chains must not attach to or go over steering or brake parts. Leave enough slack in chains for suspension movement. Check tire straps after first 5 miles of travel and every 50 miles the reafter to ensure they are tight and not rubbing or fraying on suspension components of towed vehicle.

8. If towed vehicle is rear wheel or four wheel drive, disconnect drive shaft. (Simply placing transmission in neutral is not sufficient to prevent damage to transmission). You must disconnect drive shaft at rear axle and remove it. With the drive shaft removed it will be necessary to cap the transmission tail shaft to prevent transmission fluid loss.

Rear engine/transaxle vehicle cannot be towed with TOW-IT. (All vehicles loaded on TOW-IT must be loaded with front of vehicle facing forward). Consult your vehicle owner's manual to help determine if and how your vehicle is suitable to be towed.

9. RELEASE PARKING BRAKE ON TOWED VEHICLE. Ensure that steering wheel is locked in straight forward position, remove ignition keys and lock doors of towed vehicle.
10. Release parking brake on towing vehicle and drive forward 100 feet. Stop and perform safety check. Check hitch, hitch ball, ball mount, coupler, safety chains, electrical and other items to ensure they are tight and in correct position. Check all lights to make sure they are operating properly. Repeat safety check after first 5 miles and every 50 miles thereafter.

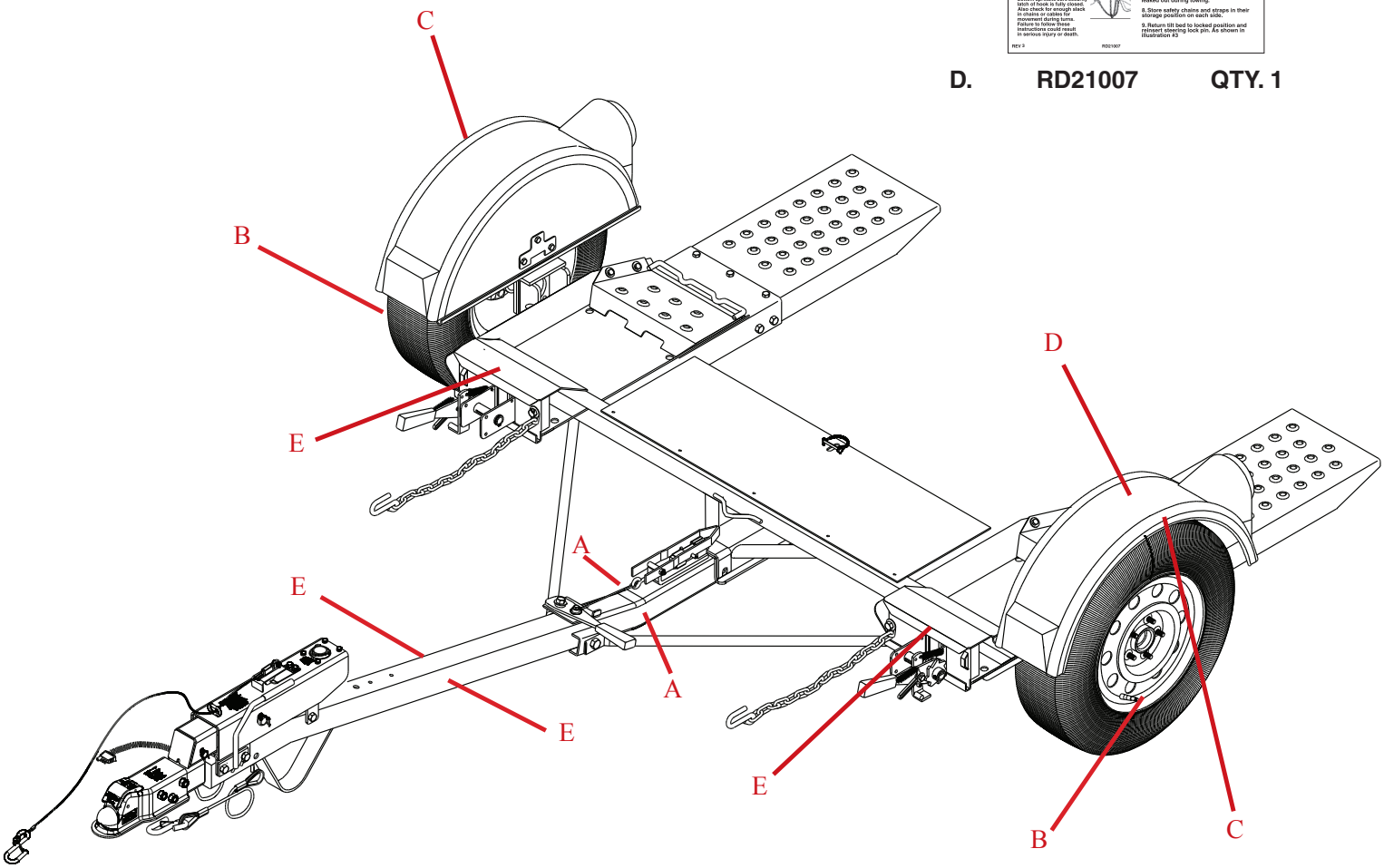
NOTE: Do not unhook TOW-IT from towing vehicle until towed vehicle is completely unloaded from TOW-IT.

Unloading Towed Vehicle

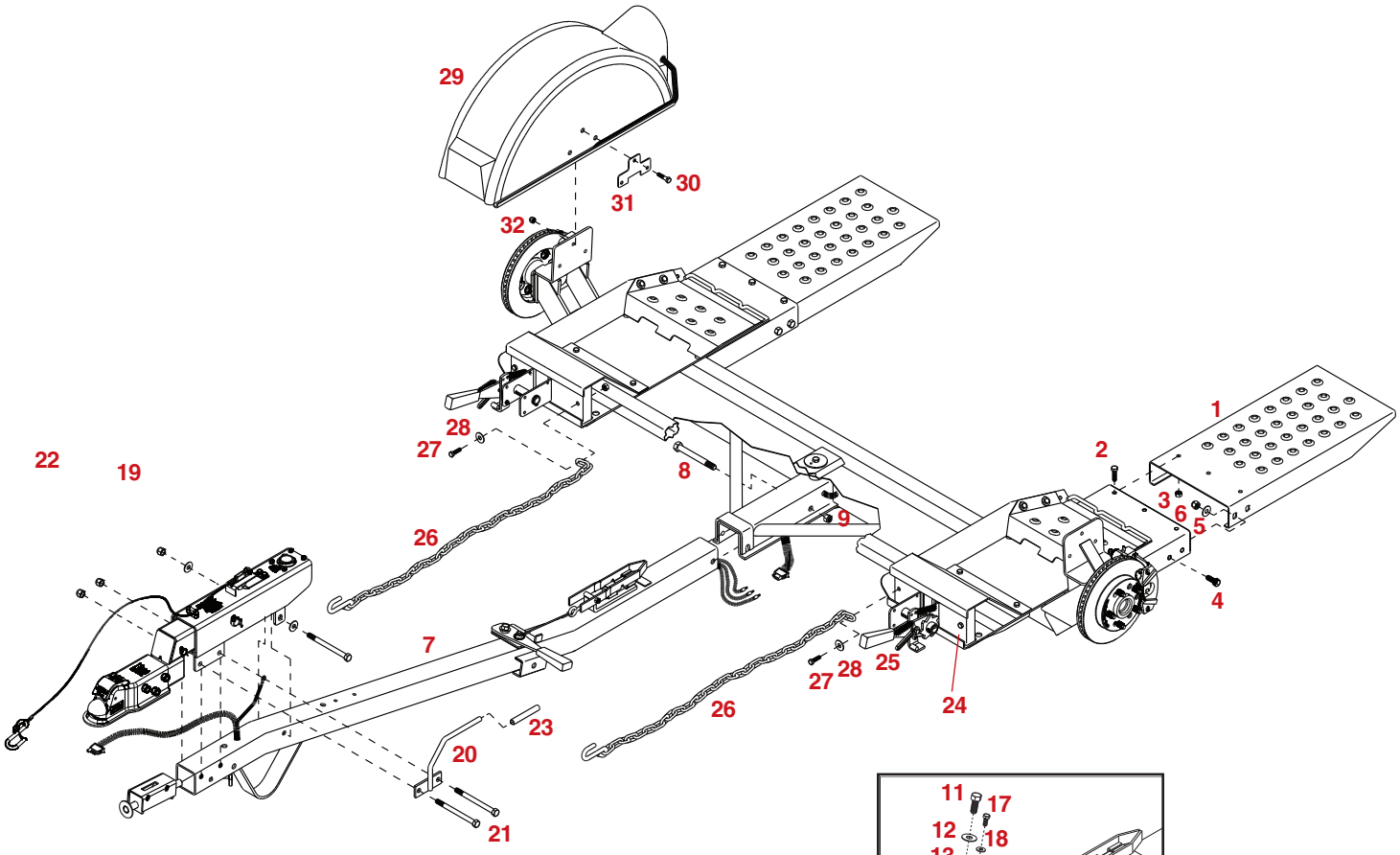
1. Assure towing vehicle and TOW-IT are straight, on level ground, and properly hooked up before unloading towed vehicle.
2. Fully engage parking brake of towing and towed vehicles.
3. If removed, reinstall drive shaft of towed vehicle.
4. Straps may be "quick released" by removing locking pin, grasping ratchet pawl and ratchet handle simultaneously and releasing. Ratchet pawl will release and permit easy removal of strap from winch.
5. Remove tire straps and safety chains from towed vehicle. Also release tilt bed as shown in illustration #5.
6. Release parking brake of towed vehicle and slowly back towed vehicle off TOW-IT.
7. On level ground check the transmission fluid level of towed vehicle. Fluid may have leaked out during towing.
8. Store safety chains and straps in their storage position on each side.
9. Return tilt bed to locked position and reinsert steering lock pin. As shown in illustration #3

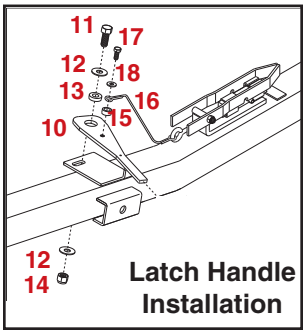
REV 3 RD21007

D. RD21007 QTY. 1



Tow-It 2 ASSEMBLY INSTRUCTIONS

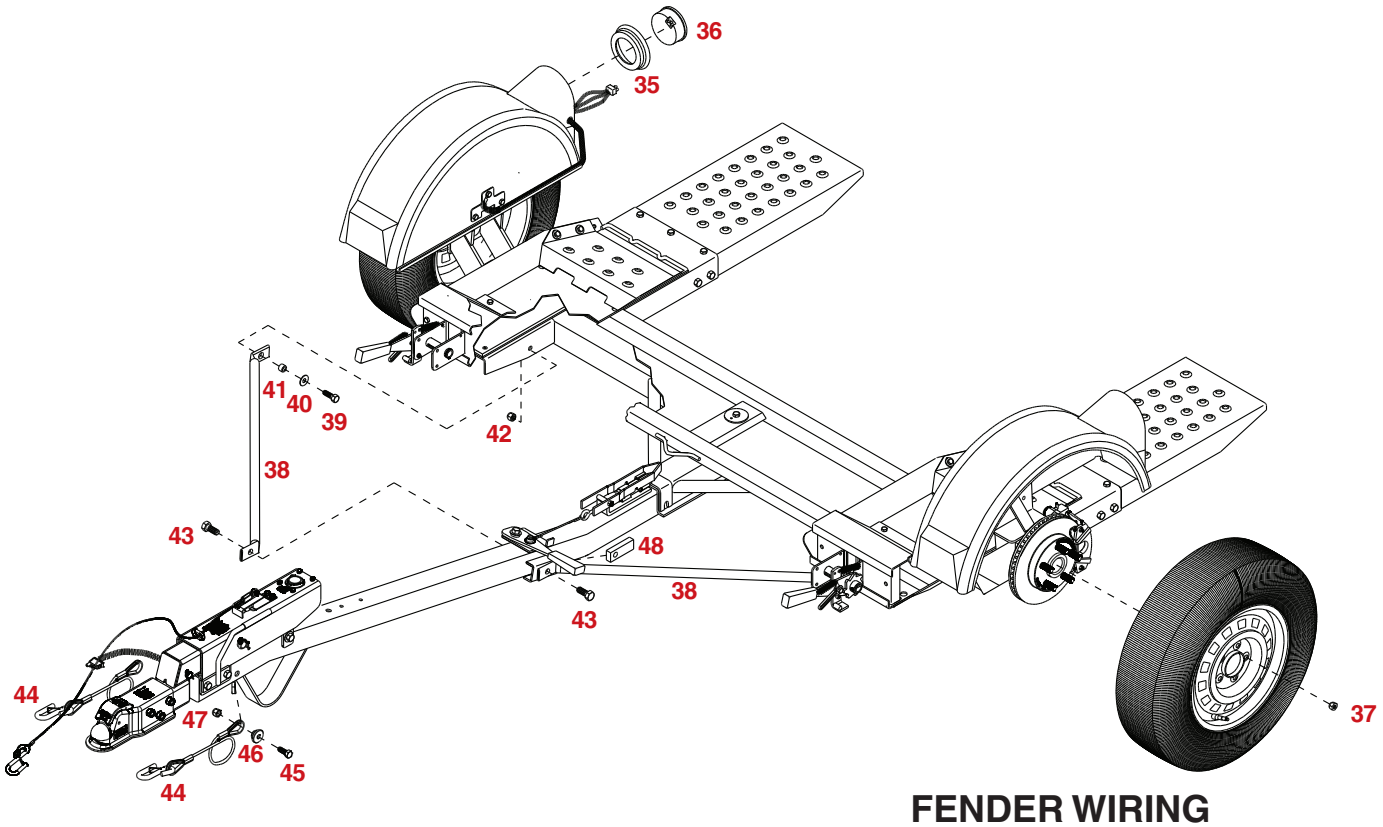




1. Place the mainframe on blocks or some other sturdy support so that the frame rests approximately 8”-10” off the ground. Attach the tilt bed ramps (**#1**) as shown using three 7/16” x 1” grade 8 bolts (**#2**) and lock nuts (**#3**) on the top of each ramp and four 1/2” x 1-1/4” grade 5 bolts (**#4**), flatwasher (**#5**) and locknuts (**#6**) (two on each side of the ramp). Torque the 7/16” bolts to 80 ft. lbs. and torque the 1/2” bolts to 75 ft. lbs.
2. Hold the tongue (**#7**) up to the front of the tow dolly and locate the three bullet connectors extending out the back of the tongue and plug into the connector protruding from under the mainframe channel. **Do not cross colors when making this connection.**
3. Mount the tongue to the front of the tow dolly using one 5/8” x 4-1/2” grade 5 bolt (**#8**) and locknut(**#9**) (torque to 50 ft. lbs.). Do not torque over 50 ft. lbs. or the bed will not tilt. Make sure the tongue latch is in the latched position to the tilt bed.
4. Mount the latch handle (**#10**) to the mounting plate using the 1/2” x 1-1/4” grade 5 bolt (**#11**), two 1/2” flatwashers (**#12**), bushing (**#13**), and 1/2” locknut (**#14**) . Put stainless steel bushing (**#15**) into latch cable (**#16**) and secure to handle using 3/8” x 3/4” Epoxied grade 5 hex head bolt (**#17**) and 5/16” flatwasher (**#18**). Adjust latch so cable is snug by loosening bolt and nut and sliding handle forward or back.
5. Secure the coupler (**#19**) and lift handle (**#20**) to the front end of the tongue with two 1/2” x 4-1/2” gr.5 bolts (**#21**), one 1/2” x 4” gr.5 bolt (**#33**) and locknuts (**#22**) . Torque the locknuts to 60 - 70 ft. lbs. Tap the rubber grip (**#23**) onto the handle with a rubber hammer or a wooden mallet.

6. Remove the 7/16” x 1-1/4” bolt (**#24**), flatwasher, and locknut from the outer front panel of each wheel platform tire stop. Slide the tie-down winch (**#25**) into the channel at the front of the wheel platforms as shown. Note that #25 is the left winch. **The ratchet handles are to the outside of each winch and ratchet springs are to the top.** Attach two 36” towed vehicle safety chains (**#26**). Secure one chain to **each** wheel platform tire stop with the 7/16” x 1-1/4” bolt (**#27**), flatwasher (**#28**) and locknut. Torque the to 50 ft. lbs.

7. When assembling the tie-down strap to the tow dolly winch, make sure the tie-down strap does not contain any twists and the overlaps are to the inside. Thread tie-down strap through the slotted tube on the tie-down winch. Pull approximately 4” of strap through this slot. This will allow the tube to be between the end of strap and second sewn patch.



FENDER WIRING

On the left side, plug in bullet plugs with white to white, black to brown and yellow to red. On the right side, plug white to white, black to brown and green to red.

8. Lay the braking struts **(#38)** out along the tow dolly tongue with the back end (the end with the larger hole in it) of the bracing strut toward the mainframe. Loosely bolt the back of each bracing strut to the trailer frame as shown using 1/2” x 1-1/2” grade 5 bolt **(#39)**, flatwasher **(#40)**, pivot bushing **(#41)**, and locknut **(#42)**. Hold up the front end (the end with the smaller hole) of each bracing strut to the tongue, slide nut plate **(#48)** inside tongue channels, align holes, and secure with two 5/8” x 1-1/4” epoxied bolt **(#43)**. Torque the bolts with the pivot bushing to 60-70 ft lbs.
9. Attach the two 36” transport safety cables **(#44)** to the two holes in the angle located under the tongue using two 7/16” x 1-1/2” grade 8 bolts **(#45)**, cable mounting washers **(#46)**, and locknuts **(#47)**. Torque bolts to 50 ft lbs.

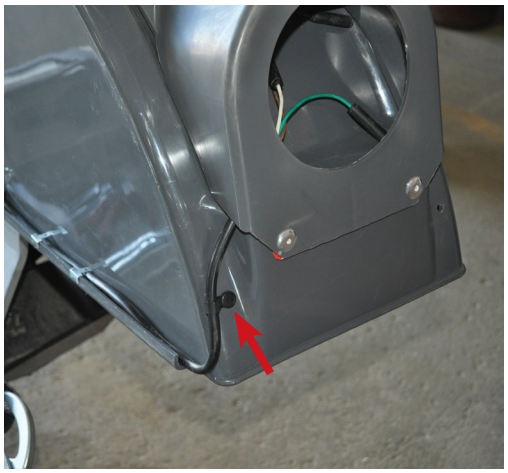
COLOR CODE FOR WIRING HARNESS

WHITE	Ground
BROWN	Tail Lights and License Plate Light
YELLOW	Left Turn and Stop
GREEN	Right Turn and Stop

FENDER ASSEMBLY

1. Install fender backup plate and three 3/8 x 1-1/2” bolts. Put nylon lock nuts inside of fender and tighten.

3. Router wiring in through back of tail light housing on the bottom inside of housing. Fish the three wire inside of housing.



5. Push wires back into housing and finish routing wires in wire trough of fender and attach cable hanger. Install two metal wire clips using pliers. Place one clip 5-1/2” from rear of fender and one 8” from rear of fender (see red arrow).

2. Fish the three wires from the mainframe through the rear hole in the fender trough.

4. Pull all wire from light hole in housing and install the snapper hose clip approximately 1-1/2” back from end of wire shielding. Squeeze snapper clip tight with pliers.

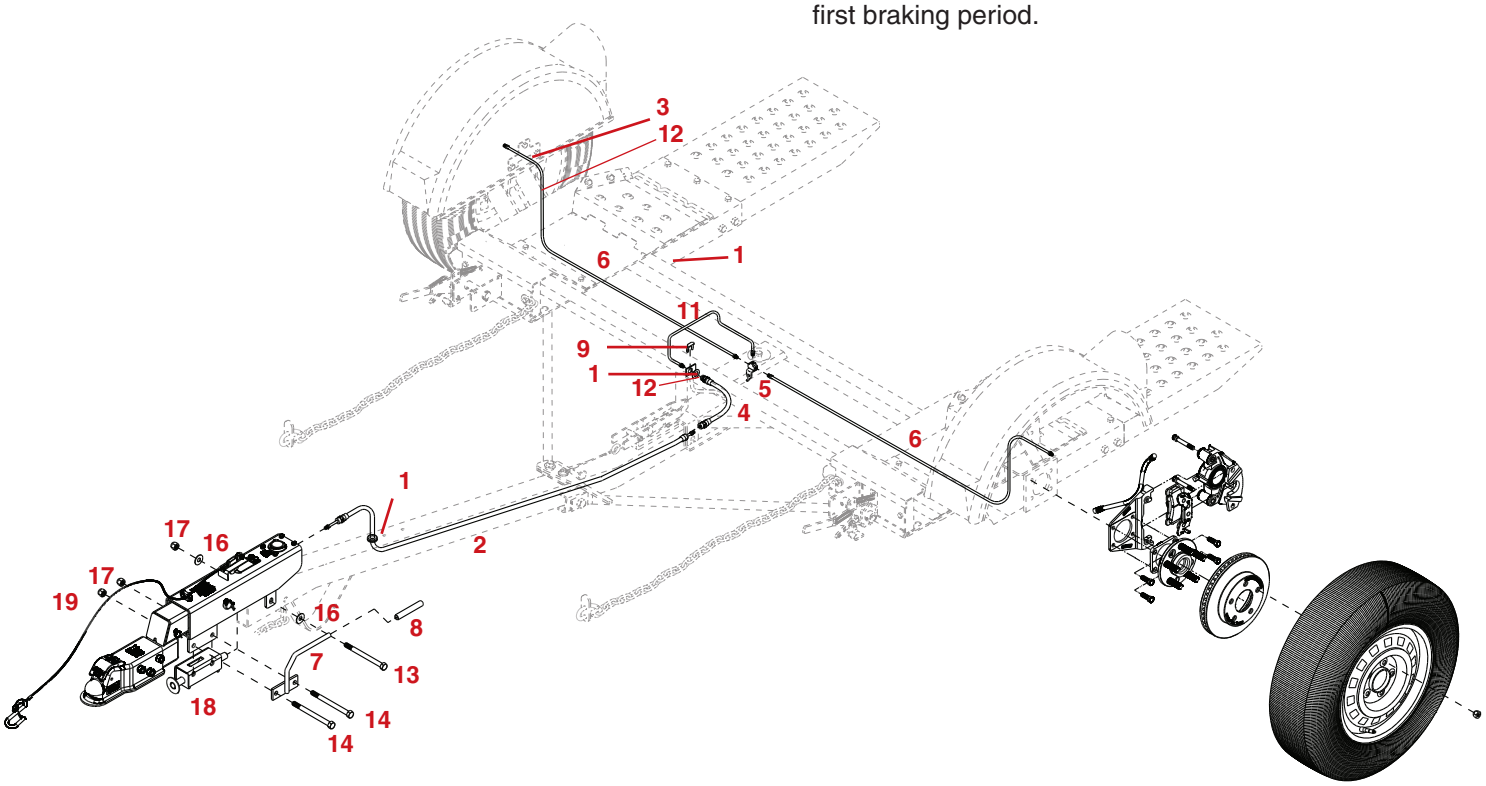
6. Install rubber grommet, plug in wiring to light and attach 3 wire pigtail harness to fender wiring. **NOTE:** On the left side, plug in the bullet plugs with white to white, black to brown, and yellow to red. On the right side, plug in the bullet plugs with white to white, black to brown, and green to red.
7. Attach the tire/rim assembly to the mainframe. Use the supplied lug nuts (#37) and torque to 120 ft lbs.

TESTING CIRCUITRY

1. With headlights in “ON” position, the taillight should be lighted.
2. Start engine and have someone depress brake pedal. Brake lights of the tow dolly and towing vehicle should come “on” and “off” simultaneously with each application.
3. Put left turn signal on. Left turnlight of tow dolly and towing vehicle should flash simultaneously. Should the turn signal light of the tow dolly function opposite to those of the towing vehicle, it is probable that the YELLOW and GREEN wires have been reversed. Check the plug connection under the tongue of the tow dolly to make sure wire colors are not crossed at that point. If plug connection is correct, correct problem by reversing yellow and green wire connection on the towing vehicle.
4. **CAUTION:** Many flashers for vehicle turn signals will not carry the additional load of tow dolly turn signals. If normal operation does not occur when connected to the tow dolly, a heavy duty replacement flasher may be obtained through auto parts outlets.

SURGE BRAKE ASSEMBLY

NOTE: The spring return system has a small nut wedged in the spring area for pre-load installation. **Do not** remove nut. Nut will automatically drop out during first braking period.



1. Slide 1"O.D. x 5/8"I.D. bushing over end of rubber brake line and insert end through hole in the angle bracket welded to the front of the tow dolly main frame, secure the brake line end with a retainer clip. Slit one side of a 5/8" grommet, slide over brake line green/brown wires coming out mainframe tongue channel, push grommet into the tongue channel. Fish the bent 12" metal brake line between the mainframe and top platform Secure one end to the rubber brake hose and other end into the top of the brake tee on back of tow dolly axle. Make sure these connections are tight.
2. Slide spring return system (19) into tongue tube, secure actuator and lift handle to front end of tongue using two 1/2" x 5" gr. 5 bolts and locknuts. Secure rear of actuator using one 1/2" x 4-1/2" gr.5 bolt, locknut, and two flatwashers as shown (three bolts, two flatwashers, and three locknuts provided with DA91D actuator). The white ground wire is attached under the head of the second bolt attaching the actuator. **(It is very important that a good ground is made).** Torque the locknuts to 60 - 70 ft. lbs. Tap the rubber grip onto the handle with a rubber hammer or a wooden mallet.
3. Connect DA91 actuator to brake hose coming out the top of the tongue. Make sure all brake line connections are tight. Follow the installation procedure as outlined in the DA91 actuator instruction, beginning with step 3 (fill the master cylinder and the bleeding procedure for brakes).
4. Attach wheels to the mainframe. Use supplied lug nuts, torque to 75 - 80 ft. lbs. The retainer washers on the lug bolts next to the drum have been installed at the factory (two per drum).

BRAKE LINES PARTS LIST

REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	**13047**	6	Rubber Grommet
2.	**12508**	1	63" Brake Hose
3.	**11616**	2	Grommet .625 OD x .375 ID x .125
4.	**SB13H66**	1	13" Rubber Brake Hose
5.	**SB7785**	1	3/16" Brake Tee
6.	**SB544**	2	44" Brake Line
7.	**04017**	1	Lift Handle
8.	**02189**	1	Hand Grip
9.	**SB7764**	1	Brake Hose Clip
10.	**04174**	4	12mm Drum Retainer Washer
11.	**SB512**	1	12" Brake Line (Metal)
12.	**00496**	1	1-1/8" OD x 5/8" ID x 14 GA Washer
13.	**01338**	1	1/2" UNC x 4-1/2" Hex Head Bolt
14.	**01975**	2	1/2" UNC x 5" Hex Head Bolt
16.	**00085**	2	1/2" Flat Washer
17.	**02178**	3	1/2" UNC Nylon Insert Lock Nut
18.	**12445-30**	1	Spring Return System
19.	**13730**	1	Safety Cable Assembly

Please order replacement parts by PART NO. and DESCRIPTION.

ITEM	PART #	DESCRIPTION	QTY.
26	**11590**	FRONT HALF TRAILER WIRING HARNESS	1
27	**15921**	REAR HALF TRAILER WIRING HARNESS	1
28	**13047**	GROMMET .50	4
29	**12925**	10000# 2" eZ-LATCH COUPLER	1
30	**01338**	BOLT, .50-13UNC X 4.50 HEX HEAD GR.5	2
31	**04017-95**	HANDLE	1
32	**02189**	.50 I.D. HANDLE GRIP	1
33	**02178**	LOCKNUT .50-13UNC NYLON INSERT	14
34	**02771**	LOCKNUT .4375-14UNC NYLON INSERT	4
35	**12238**	36" SAFETY CABLE BLK W/HOOK	2
36	**00059**	WASHER FLAT .375	20
37	**01898**	BOLT, .4375-14UNC X 1.50 HEX HEAD	4
38	**12714-76**	TONGUE	1
39	**02587**	LOCKNUT .625-11UNC NYLON INSERT	1
40	**02434**	BOLT, .625-11UNC X 4.50 HEX HEAD	1
41	**03503**	BOLT, .625-11UNC X 1.25 HEX HEAD EPOXY	2
42	**02747-96**	BRAKING STRUT	2
43	**01254**	BOLT, .50-13UNC X 1.50 HEX HEAD	2
44	**00085**	WASHER FLAT .50	13
45	**02579-95**	PIVOT BUSHING	2
46	**04815**	GROMMET .375 I.D. X .50 O.D.	2
47	**11780**	WEAR PLATE (FOUR HOLE)	2
48	**11779**	SELF TAP SCREW .25 X .75 FLAT HEAD	8
49	**11979-76**	UNDERCARRIAGE	1
50	**02209**	NUT .4375-20UNF HEX GR.8	2
51	**02210**	BOLT, .4375-20UNF X 1.25 EPOXY GR.8	8
52	**04369**	HUB & SPINDLE (5 ON 115MM BC)	2
-	**02917**	REPLACEMENT 12MM X 1.50 STUD BOLT	-
53	**09296**	14 X 5.5 RIM (5 ON 115MM BC)	2
54	**02933**	LUG NUT 12MM CHROME	10
55	**13989**	ST205/75R 14" "C" RADIAL TIRE (8.50 UNIT)	2
56	**04323-96**	TILT BED RAMP	2
57	**00967**	BOLT, .50-13UNC X 1.25 HEX HEAD	9
58	**04168**	LOCKNUT .4375-20UNF NYLON INSERT	6
59	**04167**	BOLT, .4375-20UNF X 1 HEX HEAD GR.8	6
60	**02592**	LOCKNUT .375-16UNC NYLON INSERT	14
61	**5978**	LEFT FENDER ASSEMBLY W/LIGHTS	1
62	**5979**	RIGHT FENDER ASSEMBLY W/LIGHTS	1
63	**04425**	TINNERMAN FENDER CLAMP	4
64	**11971-95**	NUT PLATE .625	2
65	**05443**	CABLE HANGER WIRE HARNESS	2
66	**02377**	BOLT, .4375-20UNF X 1.50 EPOXY GR.8	2
67	**04508**	AMBER FENDER REFLECTOR	2
68	**11790**	LYNCH PIN	1
69	**04424**	BACK UP PLATE FOR FENDER	2
70	**00914**	BOLT, .375-16UNC X 1.50 HEX HEAD	6
71	**04804**	RED FENDER REFLECTOR	2
72	**11206**	HARNESS WIRE F/ LED LIGHT	2
73	**05447**	GROMMET RUBBER MOUNTING F/LIGHT	2
74	**11209**	ROUND 4" LED	2
75	**11980-76**	UPPER HALF MAINFRAME	1
76	**03528**	3 PT TIE DOWN STRAP W/J HOOK & BUCKLE	2
77	**02729-95**	BUCKLE ONLY	2
80	**11981**	TOP COVER/LID	1
81	**02383**	36" SAFETY CHAIN W/HOOK	2
-	**04194**	S HOOK F/SAFETY CHAIN .4375	-
82	**04270-76**	REAR TIRE STOP	2
83	**00907**	BOLT, .375-16UNC X 1 HEX HEAD	8
84	**05570**	BOLT, .50-13UNC X 1 EPOXY W/ZERK	1
85	**02578**	WASHER FLAT .50 SPECIAL	1
86	**02584**	ROLL PIN .1875 X .75	1
87	**04083**	BRONZE BUSHING 1.75 O.D.	1
88	**05449**	SPACER BUSHING STAINLESS STEEL	1
89	**05444**	BOLT, .375-16UNC X .75 HEX EPOXY	1
90	**03382-95**	LATCH HANDLE PIVOT BUSHING	1

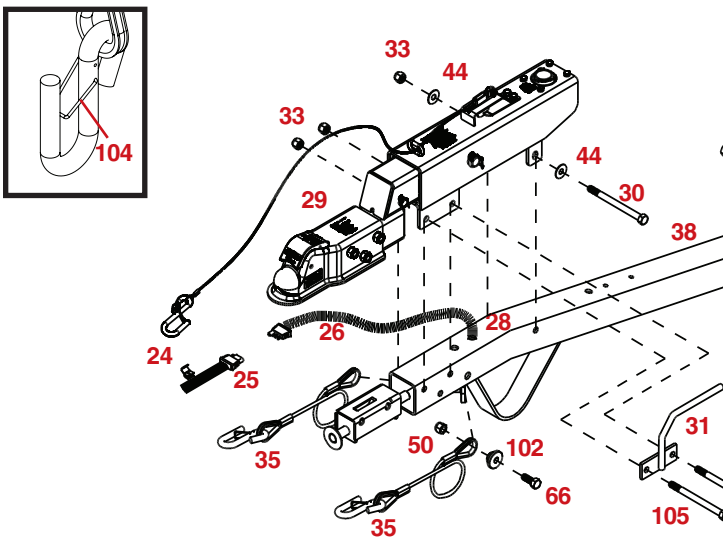
Please order replacement parts by PART NO. and DESCRIPTION.

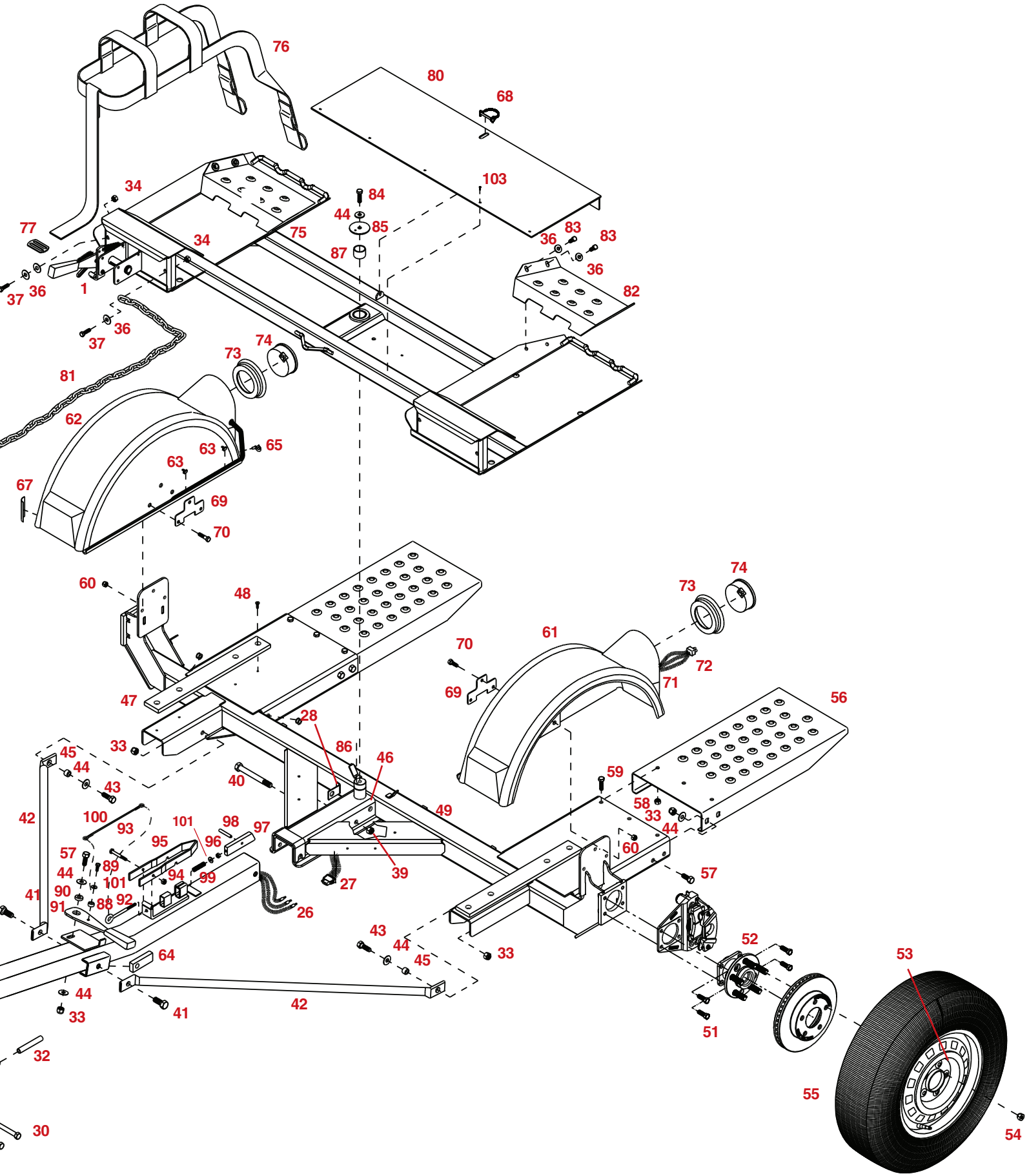
ITEM	PART #	DESCRIPTION	QTY.
91	**03574-95**	LATCH HANDLE	1
92	**03434**	EYE BOLT, .3125-18UNC X 4	1
93	**04221**	BOLT, .3125-18UNC X 2.50 HEX HEAD	1
94	**02802**	LOCKNUT .3125-18UNC NYLON INSERT	1
95	**03381-95**	LATCH CATCH	1
96	**00007**	NUT .3125-18UNC HEX	1
97	**03379**	LATCH BLOCK	1
98	**03435**	ROLL PIN .3125 X 2.25	1
99	**03499**	LATCH SPRING STAINLESS STEEL	1
100	**03433**	LATCH CABLE	1
101	**00004**	WASHER FLAT .3125	2
102	**01855**	PIN SAFETY LOCK	1
103	**12171**	SELF TAPPING SCREW #10 NC X .75	5
104	**12253**	REPLACEMENT SAFETY HOOK SPRING CLIP	-
105	**01896**	BOLT, .50-13UNC X 4 HEX HEAD	1

Please order replacement parts by PART NO. and DESCRIPTION.

ITEM	PART #	DESCRIPTION	QTY
-	**5432**	**LEFT RATCHET WINCH ASSEMBLY (Plated)**	-
-	**5433**	**RIGHT RATCHET WINCH ASSEMBLY (Plated)**	-
1	**00004**	WASHER FLAT .3125	1
2	**00214**	WASHER FLAT .25	1
3	**01076**	BOLT, .25-20UNC X .75 HEX HEAD	1
4	**01864**	SPRING	2
5	**02772**	LOCKNUT, .25-20UNC NYLON INSERT	2
6	**03574-95**	RATCHET HANDLE PLATED W/ HAND GRIP	1
7	**03578**	BOLT, .3125-18UNC X .50 SHOULDER	1
8	**05337**	SAFETY PIN CABLE	1
9	**05444**	BOLT, .375-16UNC X .75 HEX HEAD W/ EPOXY	1
10	**05449**	WINCH PAWL BUSHING STAINLESS STEEL	1
11	**05450**	WINCH PAWL	1
12	**11750**	ROLL PIN .3125 X 1.50	1

Please order replacement parts by PART NO. and DESCRIPTION

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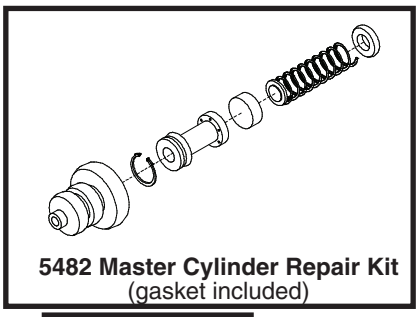
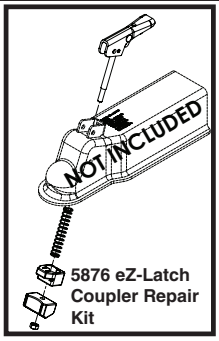
MODEL DA91 ACTUATOR PARTS BREAKDOWN



5482 Master Cylinder Repair Kit
(gasket included)



5876 eZ-Latch Coupler Repair Kit

BLEEDING THE SYSTEM

The first requirement for safe, sure hydraulic braking is the use of quality brake fluid. Use only DOT-3 or DOT-4 brake fluid from a sealed container.

If pressure bleeding equipment is available, follow the manufacturer's instruction in bleeding the system.

If system must be bled manually, proceed as follows: Fill master cylinder with fluid. Install bleeder hose on top bleeder of first caliper to be bled.

NOTE: always bleed brakes by using the top bleed screw on the caliper.

Have loose end of hose submerged in brake fluid in glass container to observe bubbling.

By loosening the top bleeder screw located on the caliper one turn, the system is open to the atmosphere through the passage drilled in the screw. Pump actuator with long steady strokes. The bleeding operation is completed when bubbles no longer rise to the surface of the fluid. **Be sure to close bleeder screw securely.**

Repeat bleeding operation at each caliper. During the bleeding process, replenish the brake fluid, so the level does not fall below the 1/2 full level in the master cylinder reservoir. After bleeding is complete, make sure master cylinder reservoir is filled and filler cap is securely in place.

After the bleeding operation has been completed, apply pressure to the system and check the whole brake system for leaks.

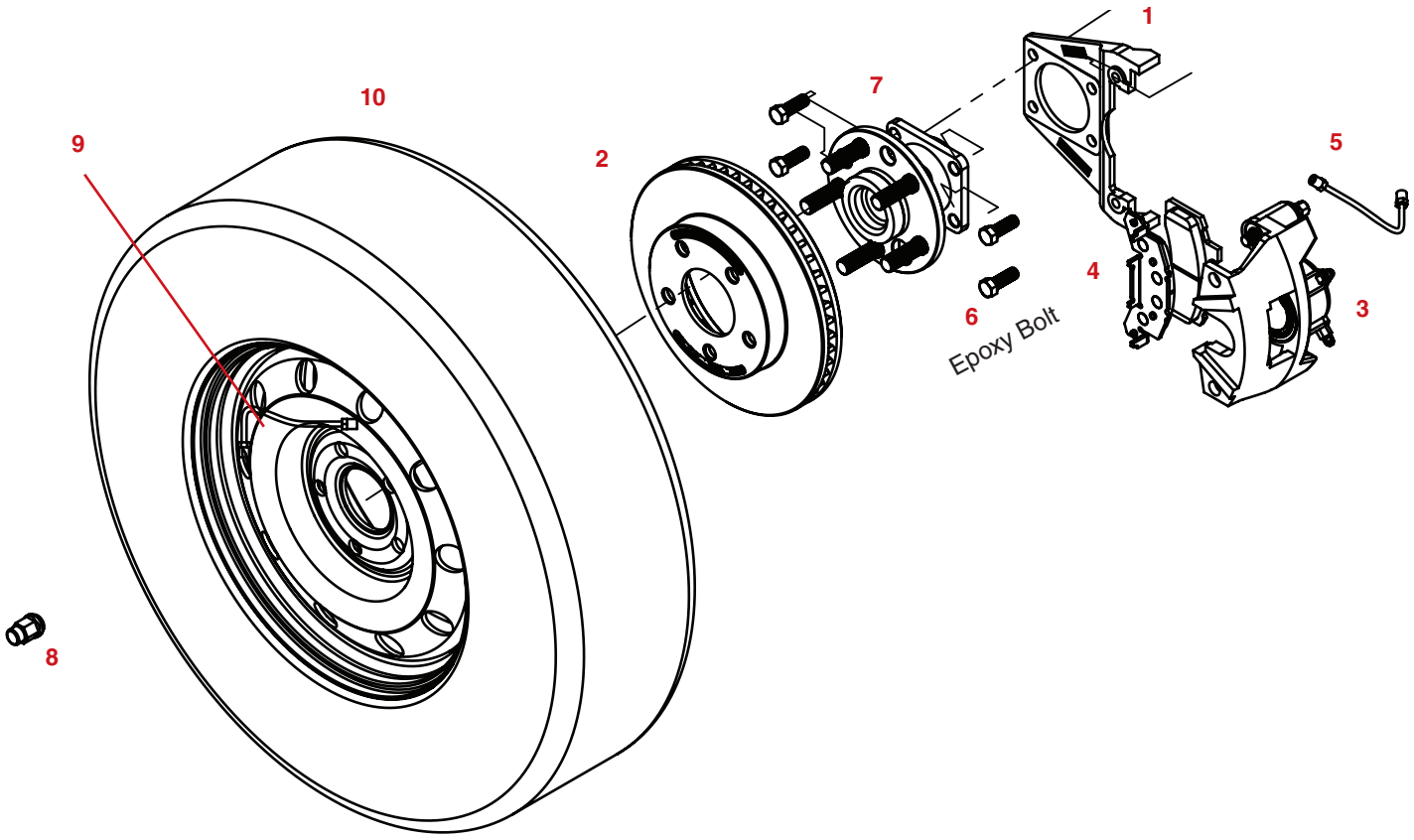
Model 91 ACTUATOR PARTS LIST

REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	**12925**	1	10000# 2" eZ-Latch Coupler
2.	**01896**	3	1/2"-13UNC x 4" Hex Head Bolt (gr.5)
3.	**02178**	3	1/2"-13UNC Nylon Insert Lock Nut
4.	**05426**	1	Front Shock Pin (drop tube actuators)
5.	**11079-95**	1	Drop Tube Actuator Slider (plated)
6.	**SB12426**	1	Damper/ Shock
7.	**11164-95**	1	3 Bolt Mount Outer Case (plated)
8.	**05424**	2	5/16" External Tooth Lock Washer
9.	**12557**	1	Rue Cotter Pin for 5/8" Pin
**10.	**05408**	1	3/32" Cable with hooks
**12.	**05693-95**	1	Emergency Lever Spring (plated)
13.	**05961**	2	5/16"-18UNC x 5/8" Hex Head Bolt (gr.5)
14.	**00618**	4	1/4-20UNC x 2" Hex Head Bolt (gr.5)
15.	**00057**	4	1/4" Lock Washer
**16.	**05951**	1	Emergency Lever Assembly
17.	**03876**	1	Master Cylinder Cap w/ Diaphragm & O-ring
-	**05849**	1	O-Ring Only (not shown)
18.	**05977**	1	Push Rod Assembly
19.	**00062**	4	1/4"-20 UNC Hex Nut
** 20.	**09153**	-	Plastic Master Cyl. Gasket ONLY
21.	**11190**	1	Master Cylinder
22.	**14798**	1	90° Fitting
** 23.	**03866-95**	1	Lever Guide (plated)
24.	**05687**	1	Master Cylinder Protective Boot
25.	**05986-95**	1	Connecting Pin (plated)
26.	**10965**	1	Upper Slider
27.	**10966**	1	Lower Slider
28.	**10967**	2	Side Spacers
29.	**12557**	1	Master Cylinder Cap
30.	**12397**	1	Rue Cotter Pin for 7/8" Pin

-	**8669113**	-	DA91 Actuator w/ 2" eZ-Latch Coupler
-	**5401**	-	Lever Replacement Kit (incl. items w/**)
-	**5482**	-	Master Cyl. Replacement Kit (disc)
-	**5876**	-	eZ-Latch Coupler Repair Kit

Please order replacement parts by **PART NO.** and **DESCRIPTION**

DISC BRAKE PARTS BREAKDOWN AND PARTS LIST



ASSEMBLY

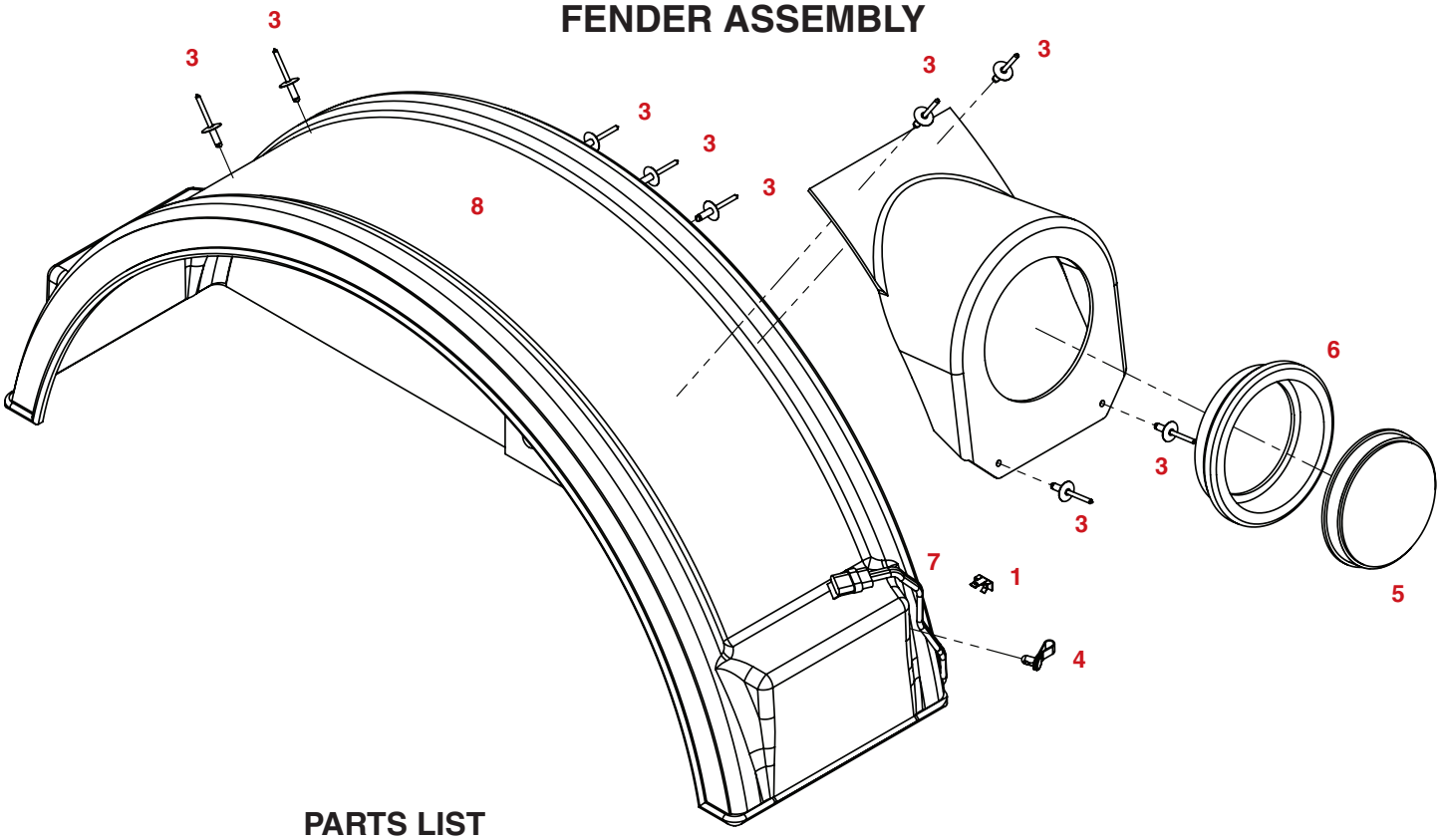
1. Begin by mounting the Hub Assembly and the Caliper Mounting Bracket (#1) to the Forged Arm using the (#6) 7/16" Epoxied Bolts (as shown).
2. Now place the Rotor (#2) onto the Hub Assembly as shown in the diagram.
3. Make sure the Brake Pads (#4) are correctly placed in the Caliper (#3).
4. Place Caliper (#3) over the Rotor (#2), and secure it to the Mounting Bracket (#1) using the Caliper Mounting Bolts (not shown).
5. When mounting left caliper only, rotate elbow fitting 1/4 turn tighter (clockwise) to position elbow fitting correctly. Hook up Brake Hoses (#5) and replace the Rim and Tire.

PARTS LIST

REF. NO.	PART NO.	REQD QTY.	DESCRIPTION
1.	**13920-92**	2	Caliper Mounting Plate
2.	**03927-92**	2	Rotor
3.	**13825-92**	2	Disc Brake Caliper Complete
4.	**13824**	1	Brake Pads (for one complete axle)
5.	**SB544**	2	Brake Line .188 x 44"
6.	**02210**	8	7/16" Gr8 x 1-1/4" Epoxy Hex Hd Bolt
7.	**04369**	2	Hub (5 on 115mm Bolt Circle)
-	**02917**	-	12mm x 1-1/2" Replacement Stud Bolt
8.	**02933**	10	12mm Lug Nut Chrome
9.	**09296**	2	14x5.5" White Rim (115mm Bolt Circle)
10.	**5965**	2	Rim and Tire Assembly
-	**14179**	-	Kit Disc Brake Fitting (includes items listed below)
-	**14798**	1	90° Fitting (not shown)
-	-	2	Bleeder Valve
-	-	2	Rubber Bushing
-	-	2	Stainless Steel Bushing
-	-	2	Stainless Steel Bolt

Please order replacement parts by **PART NO.** and **DESCRIPTION.**

FENDER ASSEMBLY

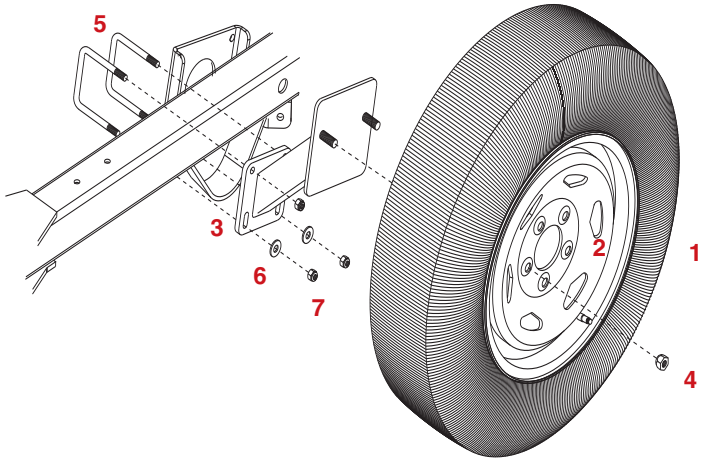


PARTS LIST

REF. NO.	PART NO.	QTY.	DESCRIPTION
	5978	-	**Left Fender Assembly**
	5979	-	**Right Fender Assembly**
1.	**04425**	2	Tinnerman U-clamp
2.	**04508**	1	Amber Reflector (not shown)
-	**04804**	1	Red Reflector (not shown)
3.	**14722**	9	3/16" x 1/2" Pop Rivet
4.	**05443**	1	Nylon Cable Hanger
5.	**11209**	1	4" LED Tail Light
6.	**05447**	1	Rubber Grommet for Light
7.	**11206**	1	LED Fender Harness
8.	**14121**	1	Left Fender Assembly
-	**14122**	1	Right Fender Assembly

Please order replacement parts by PART NO. and DESCRIPTION.

OPTIONAL SPARE TIRE and MOUNT

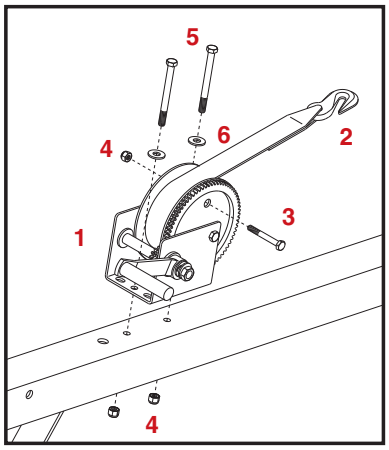


PARTS LIST

REF. NO.	PART NO.	QTY.	DESCRIPTION
	5965	1	**Optional Spare Tire**
1.	**04826**	1	ST205/75R 14"x"C" BSW Radial Tire
2.	**09296**	1	5.5 x 14" Rim
	RKSTM	1	**Spare Tire Mounting Bracket**
3.	**02193-30**	1	Spare Tire Bracket
4.	**02917**	1	Stud Bolt (12mm x 1.5)
5.	**02933**	2	Wheel Nut (12mm) Chrome
6.	**02759**	2	3/8"-16UNC Square U-Bolt
7.	**00059**	2	3/8" Flatwasher
8.	**02592**	4	3/8"-16UNC Nylon Insert Locknut

Please order replacement parts by PART NO. & DESCRIPTION.

* All options may not mount on tow dolly simultaneously.*



OPTIONAL WINCH

REF. NO.	PART NO.	QTY.	DESCRIPTION
	KK2W	1	**Optional Winch**
1.	**04620**	1	Winch Mechanism (1400 capacity)
-	**04621**	-	Replacement Handle
2.	**01738**	1	Strap Assembly (includes strap & hook)
3.	**02207**	1	3/8”-16UNC x 3” Hex Hd. Bolt
4.	**02592**	3	3/8”-16UNC Nylon Insert Locknut
5.	**02769**	2	3/8”-16UNC x 4” Hex Head Bolt
6.	**00059**	2	3/8” Flatwasher

Please order replacement parts by PART NO. and DESCRIPTION.

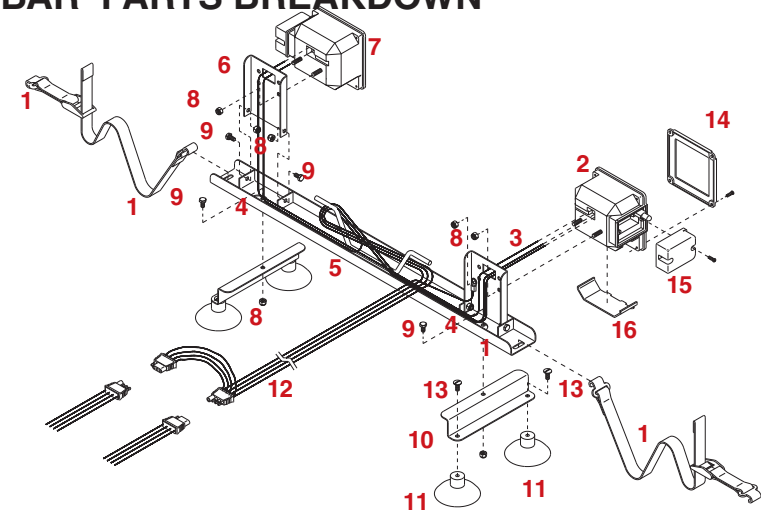
* All options may not mount on tow dolly simultaneously.*

OPTIONAL LIGHT BAR PARTS BREAKDOWN

KKLB LIGHT BAR PARTS LIST

ITEM	PART #	QTY	DESCRIPTION
1	**01772**	2	NYLON SECURITY STRAP W/ HOOKS & TIGHTENER
2	**01857**	1	LEFT TAIL/BRAKE & SIGNAL LIGHT W/ LENSES
3	**01773**	1	BROWN JUMPER WIRE
4	**01886**	4	WIRE HOLDER (METAL)
5	**02385-30**	1	LIGHT BAR FRAMEWORK
6	**02386-30**	2	ADJUSTABLE LIGHT BRACKET
7	**01856**	1	RIGHT TAIL/BRAKE & SIGNAL LIGHT W/ LENSES
8	**02772**	10	1/4”-20UNC NYLON INSERT LOCKNUT
9	**00092**	6	1/4”-20UNC X 1/2” HEX HEAD BOLT
10	**01777-30**	2	LIGHT BAR “Z” BRACKET
11	**01778**	4	3 SUCTION CUP W/ BOLT (#13)
12	**02198**	1	LIGHT BAR WIRING HARNESS (NEW STYLE)
13	**00068**	4	1/4”-20UNC X 3/4” HEX HEAD BOLT
14	**01911**	-	LARGE RED LENS
15	**01912**	-	SMALL RED LENS
16	**01890**	-	CLEAR LENS
17	**02316**	1	GROUND WIRE (NOT SHOWN)
18	**01883**	1	WIRE SPLICE (NOT SHOWN)

Please order replacement parts by PART NO. and DESCRIPTION.



COLOR CODE FOR WIRING HARNESS

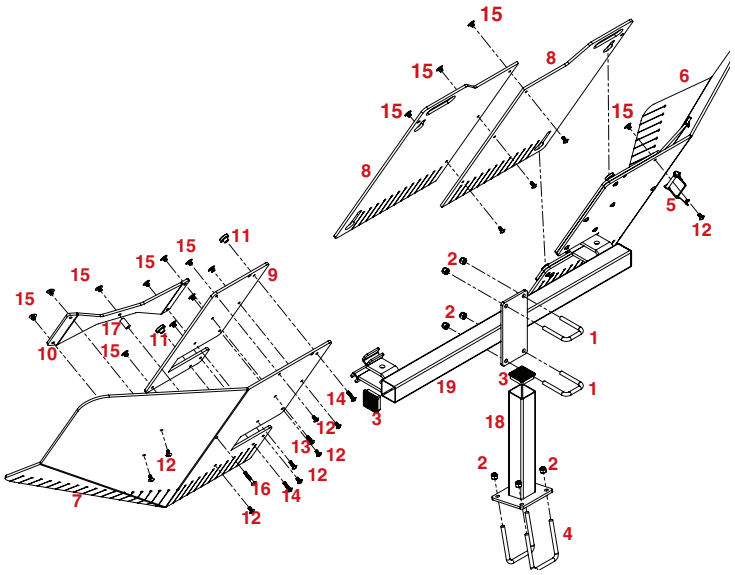
WHITE	Ground
BROWN	Tail Lights, License Plate Lights, Light Cluster Bar & Clearance Lights
YELLOW	Left Turn and Stop
GREEN	Right Turn and Stop

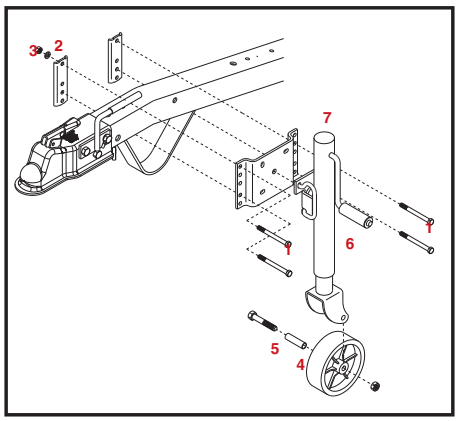
OPTIONAL SENTRY DEFLECTOR (5950)

SENTRY DEFLECTOR (5950) PARTS LIST

ITEM	PART #	DESCRIPTION	QTY
1	**02128**	U-BOLT, SQ, .375NC X 2.063 X 3.00	2
2	**02592**	NUT, .375NC NYLON LOCK	8
3	**04193**	CAP PLUG SQUARE 2 X 18 GA	3
4	**02759**	U-BOLT, SQ, .375 X 3.125 X 4.00	2
5	**05337**	SAFETY LOCK PIN ASSEMBLY	1
6	**10131**	ROCK GUARD, LEFT	1
7	**10132**	ROCK GUARD, RIGHT	1
8	**10133**	DEFLECTOR CENTER SECTION	2
9	**10134**	DEFLECTOR MOUNTING PLATE	2
10	**10135**	DEFLECTOR BRACE/HANDLE	2
11	**10136**	RETAINER BUTTON	4
12	**10183**	SCREW, .25 NC X .50 PHILLIPS HEAD	17
13	**10184**	SCREW, .25 NC X .75 PHILLIPS HEAD	4
14	**10185**	SCREW, .25 NC X 1.00 PHILLIPS HEAD	4
15	**10186**	T-NUT, .25 NC X .41 BARREL	23
16	**11264**	SCREW, .25 NC X 1.50 PHILLIPS HEAD	2
17	**11265**	SPACER BUSHING	2
18	**13731-81**	UPRIGHT POST MOUNT	1
19	**13732-81**	SENTRY CROSSMEMBER TD MNT	1

Please order replacement parts by PART NO. and DESCRIPTION.





OPTIONAL WHEEL JACK

* All options may not mount on tow dolly simultaneously.*

-	**11683**	1	**Optional Wheel Jack** w/ hardware
1.	**02769**	4	3/8”-16 UNC x 4 Hex Head Bolt
2.	**00060**	4	3/8” Lock Washer
3.	**00061**	4	3/8”-16 UNC Hex Nut
4.	**03646**	1	Replacement Wheel only
5.	**14542-95**	1	Wheel Bushing for replacement only
6.	**03129**	1	Jack
7.	**13303**	1	Plastic Cap

Please order replacement parts by PART NO. and DESCRIPTION.

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