

Operations Manual

Collins Operations Manual Hi-Speed®Dolly

TABLE OF CONTENTS

3 WARRANTY

3 Terms and Conditions

4 COLLINS HI-SPEED®DOLLY OVERVIEW

- 4 Safety Precautions
- 4 Hi-Speed[®]Dolly Visual Inspection

5 HI-SPEED®DOLLY PARTS BREAKDOWN

- 5 Hub, Wheel, And 4.80x8 Tire Assemblies
- 6 SLZ Hi-Speed[®] Dolly and T6 Cross Rail Components
- 7 G7 Hi-Speed® Dolly and T12 Cross Rail Components

8 HI-SPEED®DOLLY OPERATIONS

- 8 Telescoping Cross Rails and Dolly Placement
- 9 Configuring Dolly Components: Safety Lock Positions
- 10 Configuring Dolly Components
- 10 Connecting Cross Rails To Dolly
- 11 Engaging Safety Ratchets
- 11 Inserting Pry Bar
- 12 Raising All Collins Hi-Speed®Dollies 1986-Present
- 13 Raising All Collins Hi-Speed®Dollies 1986 To Present Continued
- 14 Securing Safety Tie-Down Straps To Vehicle
- 15 Speed Lowering Of All Hi-Speed®Dollies From 1986-Present
- 16 Slow Lowering Of All Hi-Speed®Dollies From 1986-Present
- 17 Slow Lowering Of All Hi-Speed®Dollies From 1986-Present Continued
- 17 Stowing Hi-Speed®Dollies From 1986-Present

18 SAFETY TIPS FOR COLLINS HI-SPEED®DOLLIES 1986-PRESENT — BOWED TRIP HANDLE

19 SAFETY TIPS FOR COLLINS HI-SPEED®DOLLIES 1986-PRESENT — SAFETY TIE-DOWNS

20 COLLINS HI-SPEED®DOLLY INSPECTION/MAINTENANCE SCHEDULE

- 20 Collins Hi-Speed®Dolly-Tire Manufacturer's Load and Speed Ratings
- 20 Collins Hi-Speed®Dolly Frame Dimensions
- 20 Collins Hi-Speed®Dolly Cross Rail Dimensions

21 COLLINS PRODUCT REGISTRATION

22 Registration Submission Information

23 COLLINS CONTACT INFORMATION

WARRANTY

TERMS AND CONDITIONS

Limited Non-Transferable Warranty

1. By accepting delivery of any product manufactured by Collins Manufacturing Corp. ("Collins"), through an authorized distributor, the original purchaser ("Customer"), agrees to be bound by the terms and conditions listed below. Collins and Customer agree that the following terms and conditions are the exclusive terms governing the warranty between Collins and Customer. These terms and conditions are subject to change at any time, without prior written notice. Therefore, terms and conditions must be reviewed each time, before Customer places an order or accepts delivery of any merchandise from Collins, through a Collins-approved dealer or distributor. Warranty is null and void if any Collins product is not purchased through a Collins authorized dealer or distributor.

2. Collins products come with a one (1) year, from date placed in service, limited, non-transferable warranty that covers defects in material and workmanship in Collins products. This limited warranty does not cover issues that result external causes such as: the typical deterioration of coatings, paint, lettering, appearance of items due to wear or exposure to weather, road conditions, road treatments, etc.; any damage or defect due to negligence, alteration, lack of reasonable and necessary maintenance, misuse, abuse, overloading, accident, exceeding rated speeds, improper or unauthorized repairs, or uses for which the equipment was not designed or intended; alterations or modifications that affect performance, operations, or reliability; problems caused by using accessories or not supplied by Collins.

3. Collins' obligation under this limited non-transferable warranty, statutory or otherwise, is limited to the repair or replacement of such part or parts, to be determined defective in material or workmanship, following inspection at Collins' facility, or at a facility approved by Collins. Warranty items to be repaired or replaced at Collins' discretion.

4. Under this limited non-transferable warranty, Collins has no obligation to shoulder the expense of labor or transportation in connection with the repair or replacement of parts determined to be defective, nor shall it apply to any product upon which repairs or alterations have been made, without prior authorization by Collins. Customer must possess written authorization from Collins prior to commencement of any work.

5. Except as expressly set forth in this warranty, Collins makes no other warranty, expressed or implied, and hereby disclaims all other warranties.

6. Collins' responsibility defects in materials or is limited to repair and replacement of the product, at the discretion of Collins. express and implied warranties for the product, including, but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are limited in time to one (1) year from date placed in service No warranties, whether express or implied, will apply after the limited warranty period has All warranty claims must be filed within 10 business days of incident. shall not be obligated for any warranty nor held liable for any incident beyond 10 business days from date of incident.

7. Collins shall not accept liability beyond the remedies provided for in this limited non-transferable warranty, nor for consequential or incidental damages. Collins shall have no liability for third party claims for damages against customer, or for malfunction, delays, interruption of service, loss of business, or any other loss or damage. Collins' liability shall not extend the dollar value of the product that is the subject of a claim, at the time of the claim. This is the amount for which Collins shall be responsible.

8. Field modification of this unit without the advice and consent of Collins will void all warranties pertaining to both purchased components used in the manufacture of this unit, as well as structurally fabricated parts supplied by Collins. Use of other than factory or factory authorized parts will also render the warranty void.

Collins Operations Manual Hi-Speed Dolly

OVERVIEW

Congratulations on your purchase of the Collins Hi-Speed®Dolly, the Most Advanced®Dolly available. Be assured your dolly is the finest, most versatile, and most durable self-loading dolly ever designed. As a testament to durability, many earlier-generation models from the 1980s and 90s are still in service. Collins' dolly design roots extend back to 1972 when we invented the first articulating dolly, capable of lifting a vehicle off the ground. Since then, Collins has changed the dolly-towing industry with major design "firsts"

» 1972 FIRST SELF-LOADING DOLLY

- » 1974 STEEL CAMBERED TELESCOPIC CROSS RAILS
- » 1977 SAFETY RATCHET SYSTEM (SRS)
- » 1985 SAFETY LOCK SYSTEM
- » 1995 ALUMINUM CAMBERED TELESCOPIC CROSS RAILS
- » 2000 GREASEABLE STEEL HUBS
- » 2006 SERVICEABLE / REPLACEABLE COMPONENTS
- » 2006 ALUMINUM GREASEABLE HUBS
- » 2008 ALUMINUM 8 X 3.75 MAG-STYLE WHEELS
- » 2010 ALUMINUM SQUARE PRY BARS
- » 2016 INTERNAL LOAD-BEARING PIVOT POINTS
- » 2020 MOTORCYCLE-STYLE DOLLY HANDLE GRIP
- » 2020 FULLY ENCLOSED SELF-LUBRICATING BUSHINGS
- » 2020 NON-WELDED CENTER-CAMBERED CROSS RAILS

The Collins Hi-Speed®Dolly is the lightest in weight, but has the heaviest load capacity — up to 25 times its own weight. Collins Dollies have always been prime movers of vehicles with no restrictions on towing distance, (road tested to 2,420 freeway miles without incident). They've also been thoroughly tested at the GM Proving Grounds in the U.S., as well as undergoing extreme, rigorous testing at the Mira Proving Grounds in the U.K., receiving European certification. Having successfully passed these strict and grueling tests, the Collins Hi-Speed®Dolly is the most tested and proven dolly of all time. Additionally, Collins considers safety their first priority, with more safety backup features than any other dolly. In summary you have made the best choice possible.

SAFETY PRECAUTIONS

IF NEW TO COLLINS » BECOME THOROUGHLY FAMILIAR WITH ALL CONTENTS OF THIS HI-SPEED® DOLLY **OPERATIONS MANUAL.**

IF NEW TO COLLINS » PRACTICE ALL HI-SPEED®DOLLY OPERATIONS EMPTY FIRST, BEFORE LOADING VEHICLES.

PRIOR TO EVERY DOLLY OPERATION, CONDUCT A "PRE-TOW" INSPECTION OF ALL DOLLY COMPONENTS. **CHECK FOR:**

- » PRIOR PHYSICAL DAMAGE THAT MIGHT COMPROMISE SAFETY
- » FATIGUE CRACKING OF MATERIAL OR WELDS

» VISUAL DISTORTIONS OF ANY COMPONENT » FREEDOM OF MOVEMENT OF ALL COMPONENTS

» SMOOTH AND QUIET HUB ROTATION — FOR POSSIBLE WORN OR DRY BEARINGS

» PROPER TIRE INFLATION (MINIMUM 60 PSI OR 4.14 BAR)

» TIRE ISSUES: BULGES, CRACKING, WEATHER CHECKING, CUTS, IRREGULAR TREAD WEAR, ETC.

» LOOSE OR MISSING FASTENERS, SUCH AS NUTS OR BOLTS

» SAFETY TIEDOWN STRAPS AND RATCHETS SHOULD BE FREE FROM DEFECTS OR FRAYED WEBBING

SHOULD THE "PRE-TOW" INSPECTION TURN UP ANY ANOMALIES. THE AFFECTED EQUIPMENT OR COMPONENT SHOULD BE TAGGED AND REMOVED FROM SERVICE UNTIL RESOLVED, REPAIRED OR **REPLACED**.

PRIOR TO LIFTING ANY VEHICLE, MAKE SURE IMMEDIATE AREA IS CLEARED OF DEBRIS AND UNESSENTIAL PERSONNEL.

PROPER WORK GLOVES SHOULD BE WORN WITH A FIRM GRIP ON THE PRY BAR.

ENSURE SECURE FOOTING TO AVOID SLIPPING AND FALLING FROM LOOSE GRAVEL, WET OR ICY **CONDITIONS, ETC.**

DO NOT EXCEED MAX LOAD LIMITS OR AIR PRESSURES LISTED ON SIDEWALLS OF ALL DOLLY TIRES — **REFER TO PAGE 20.**

SAFETY TIE-DOWN STRAPS SHOULD BE USED FOR EVERY DOLLY TOW TO SECURE DOLLY TO VEHICLE.

DRIVE SLOW ON ROUGH ROADS — FOR POTHOLES AND RR CROSSINGS, SLOW TO A CRAWL — CHECK **MIRRORS OFTEN.**

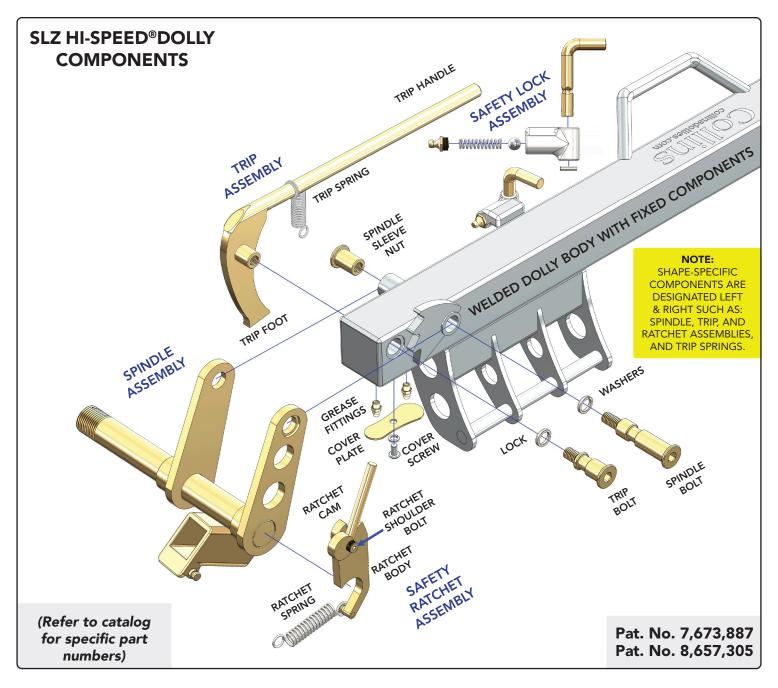
Hi-Speed Dolly Operations Manual Collins

HI SPEED®DOLLY OVERVIEW

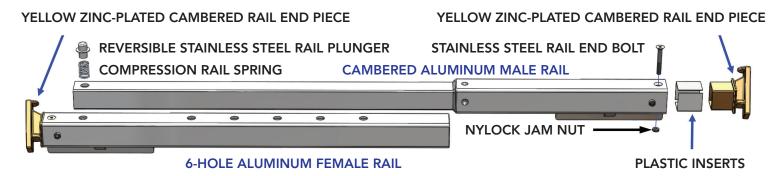


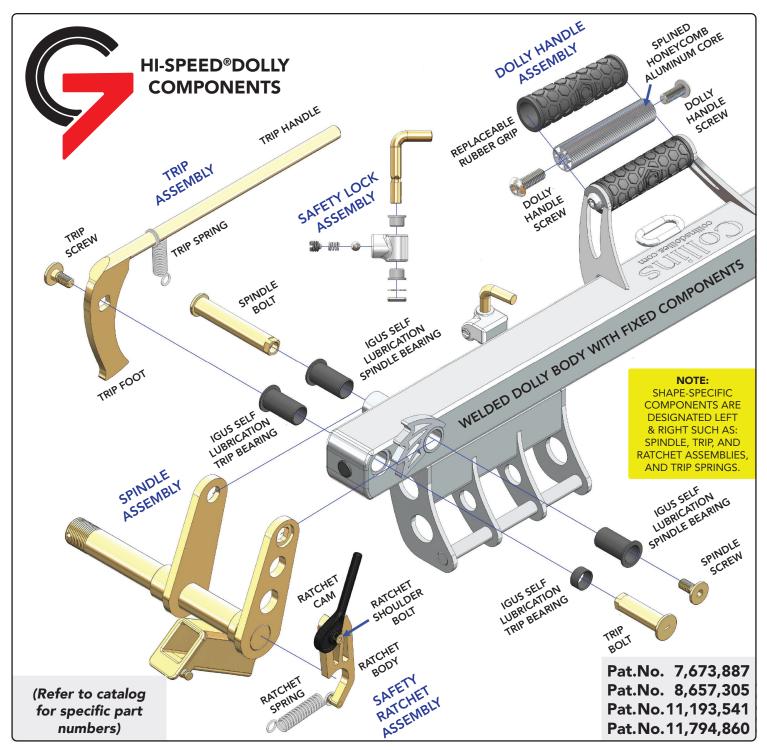
Collins' proprietary 4.80x8 load-range 'D' tire with a load capacity of 992 lbs each, for a total of 3,968 lbs per set of dollies, is the highest in the towing industry. (The 5.70x8 load-range 'D' tire—not shown - has a load capcity of 4,280 lbs per set).

Combined with Collins' proprietary 3.75x8 fivehole slotted mag-style aluminum wheel, with a load capacity of 1,070 lbs per wheel, mounted on Collins matching five-hole slotted aluminum hub, guarantees the highest 4.80x8 load capacity.

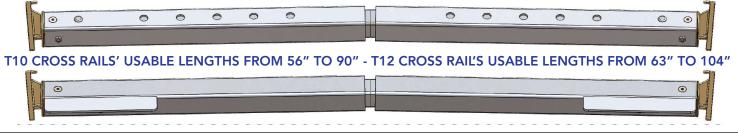


T6 TELESCOPIC ALUMINUM CROSS RAIL RAIL ASSEMBLY





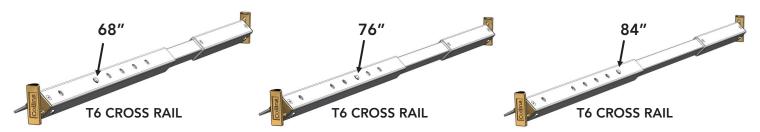
T12 CROSS RAILS WITH NON WELDED, CENTER-CAMBERED MALE, AND DUAL SIX-HOLE FEMALE COMPONENTS



TELESCOPING CROSS RAILS AND DOLLY PLACEMENT

STEP 1.

Procedure for all Collins cross rails: adjust telescopic cross rails by pressing spring-loaded plunger and sliding outer tube until plunger locks into hole that matches towed vehicle's tire width.



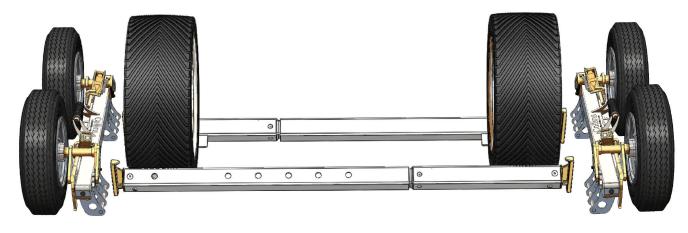
Place cross rails fore and aft of vehicle's tires. Length of cross rails should be adjusted as close as possible to outer sidewalls of vehicle's tires.



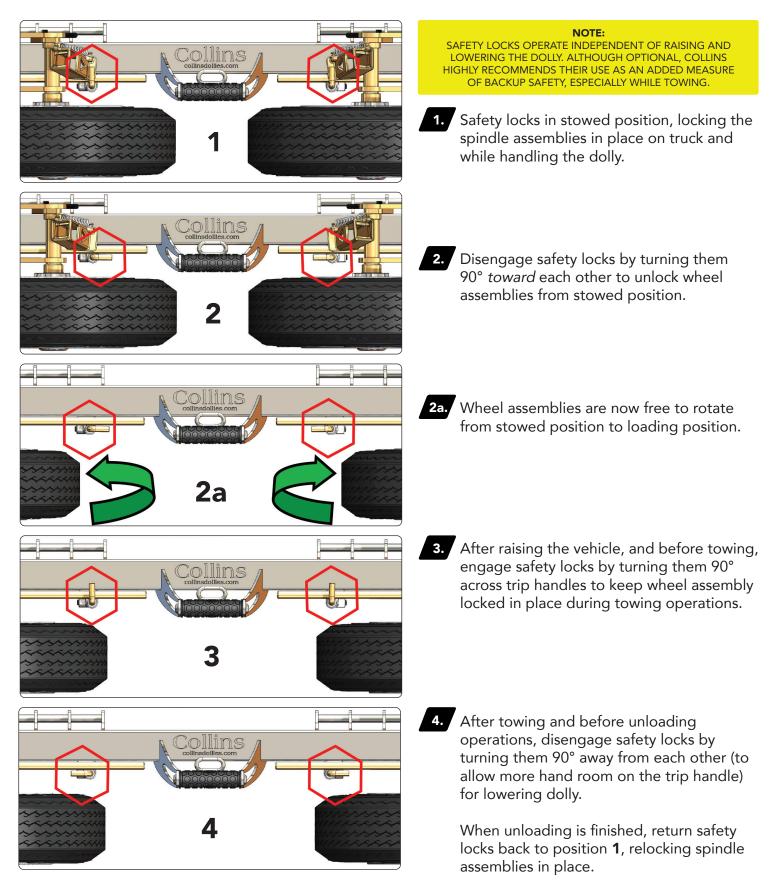
All Collins cross rails possess an engineered, positive camber since 1975. A slight "bow" is normal.



STEP 2. Place dollies beside vehicle tires, with dolly in unloaded position: spindles above dolly body.



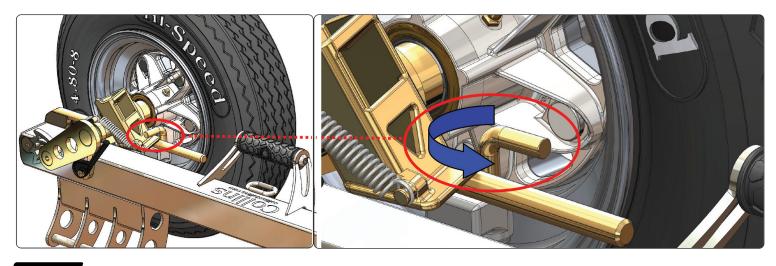
CONFIGURING DOLLY COMPONENTS: SAFETY LOCK POSITIONS



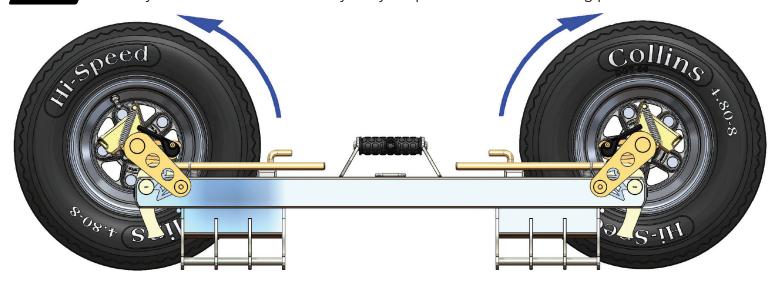
Collins Operations Manual Hi-Speed® Dolly

CONFIGURING DOLLY COMPONENTS

STEP 3A. Rotate safety locks by turning them 90° to release wheel assemblies from stowed position.



STEP 3B. Roll dolly tires toward outside of dolly body to spincle assemblies' loading position.



CONNECTING CROSS RAILS TO DOLLY

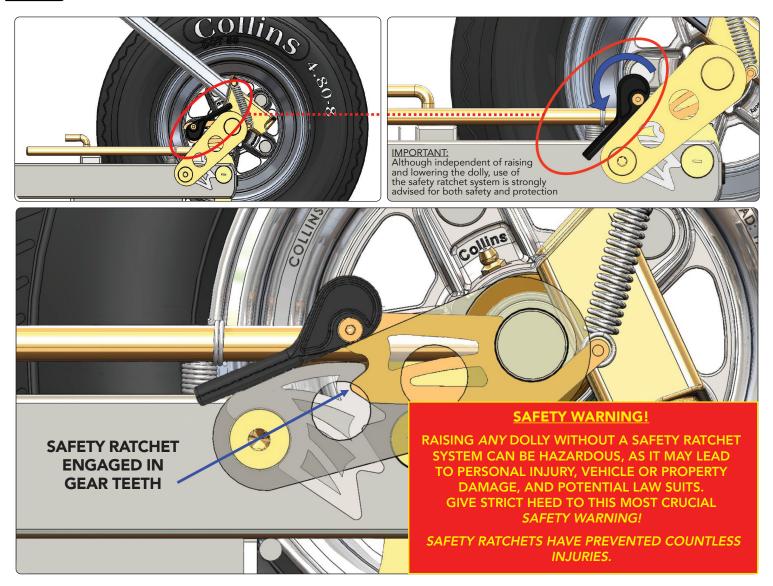
STEP 4. Using the **thumb tab**, lift each cross rail end-piece into one of the **three rail pocket slots**, placing them as close as possible to vehicle's tire tread, for maximum ground clearance when raised.



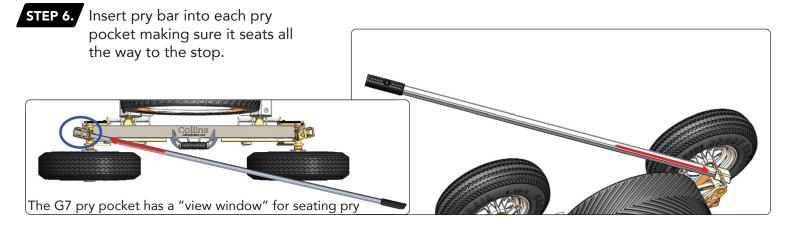
Hi-Speed Dolly Operations Manual Collins

USING THE SAFETY RATCHET SYSTEM (SRS)

STEP 5. Engage each safety ratchet by rotating cam handle 180° to interlock ratchet into gear teeth.



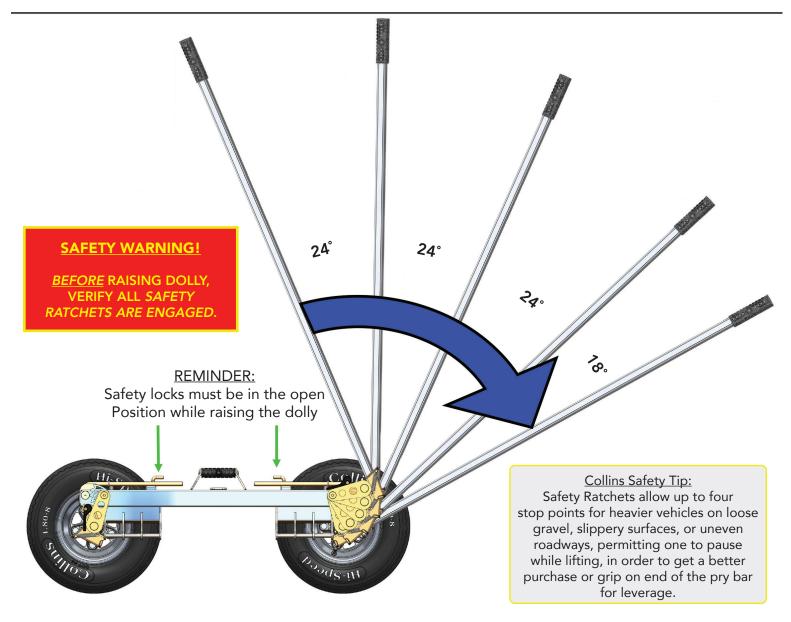
INSERTING PRY BAR



With safety lock DISENGAGED - review page 10 - cross rails assembled to dollies, safety ratchets ENGAGED in gear teeth and pry bar inserted into pry pocket, dolly is now ready for lifting. Complete operation for all four wheels.

RAISING ALL COLLINS HI-SPEED®DOLLIES 1986-PRESENT

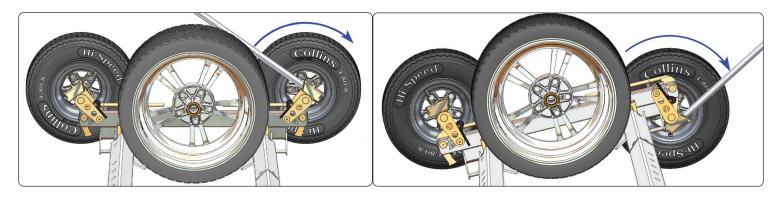
STEP 7. With a firm grip on end of pry bar with both hands, leverage the dolly tire beneath the dolly. With safety ratchets engaged, this can be done in a single motion or stepped up for heavier vehicles.



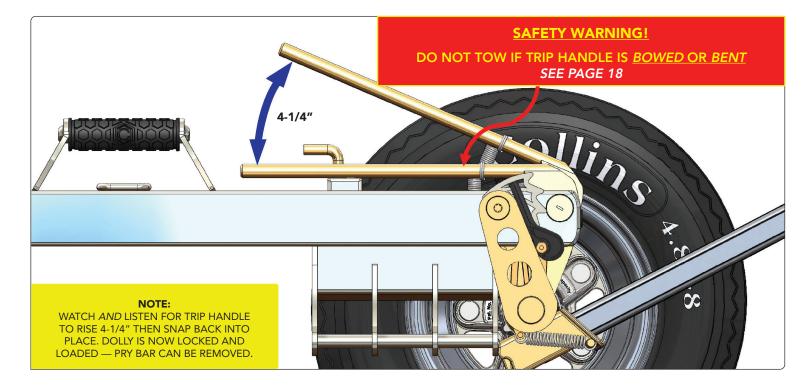
SAFETY PRECAUTIONS

- PRIOR TO LIFTING VEHICLE, MAKE SURE IMMEDIATE AREA IS CLEAR OF UNESSENTIAL PERSONNEL
- ENSURE SECURE FOOTING TO AVOID SLIPPING OR FALLING ON POTENTIALLY SLIPPERY SURFACES
- MAINTAIN FIRM GRIP ON PRY BAR WITH BOTH HANDS.

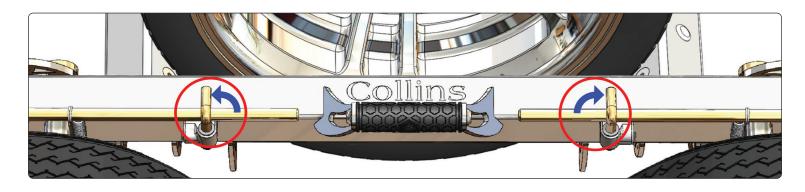
RAISING ALL COLLINS HI-SPEED®DOLLIES 1986-PRESENT - continued



STEP 8. While swinging pry bar in a 90° arc, spindle assembly will force spring-loaded trip assembly's handle to rise and fall 4-1/4", (as seen below), *automatically* locking the dolly in the loaded position.



STEP 9. For safe towing, re-engage safety locks over trip handles as backup safety.



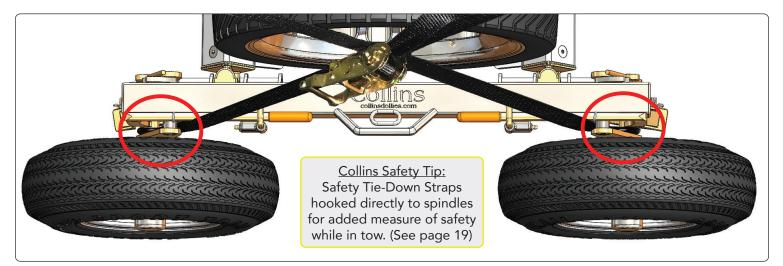
SECURING SAFETY TIE-DOWN STRAPS TO VEHICLE **ALL HI-SPEED®DOLLIES FROM 1986-PRESENT**

SAFETY PRECAUTIONS

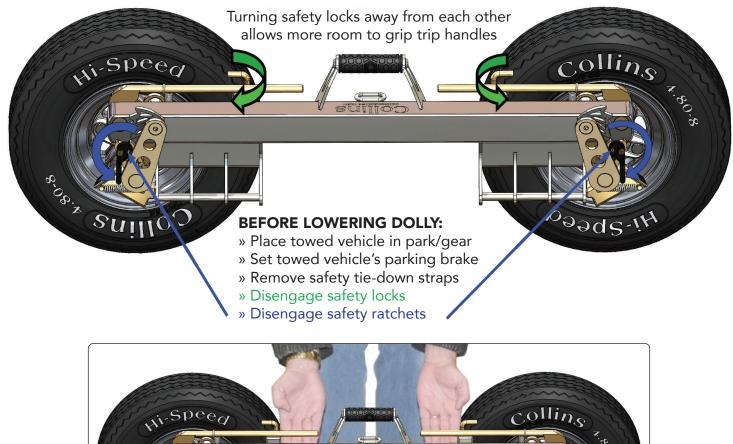
PRIOR TO TIE-DOWN, ALL SAFETY RATCHETS AND SAFETY LOCKS SHOULD BE ENGAGED AT THIS TIME, TO HELP PREVENT UN-COMMANDED LOWERING OF DOLLY WHILE IN TOW.

STEP 10. For safety, Collins recommends securing the dolly to the vehicle on all tows. For added security, Collins advocates hooking directly to dolly spindles as a 2-for-1 advantage—see page 19. While Collins recommends the "Dog Bone" method as the most effective tie-down method, the "Cross-Tie" approach is also shown below:

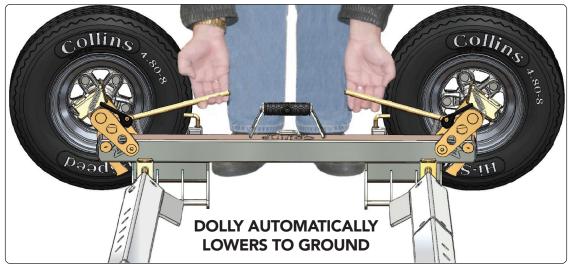




SPEED LOWERING OF ALL HI-SPEED®DOLLIES FROM 1986-PRESENT

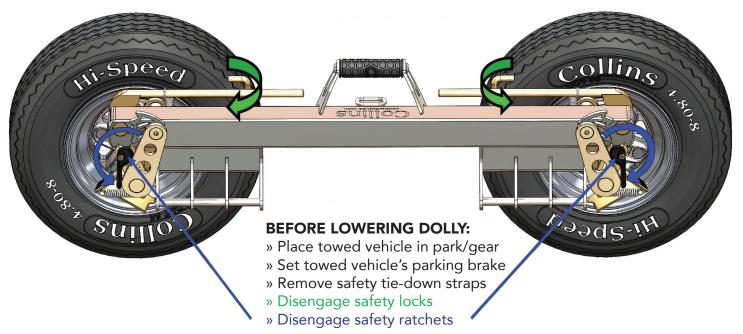




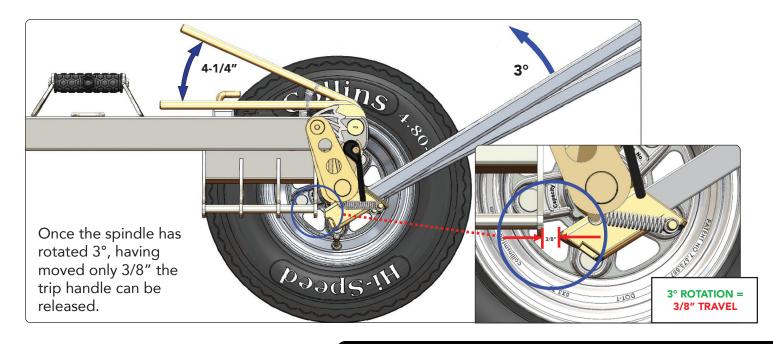


SLOW LOWERING OF ALL HI-SPEED®DOLLIES FROM 1986-PRESENT

SKILL-SET LEVEL: Experienced — practice empty before actual unloading!

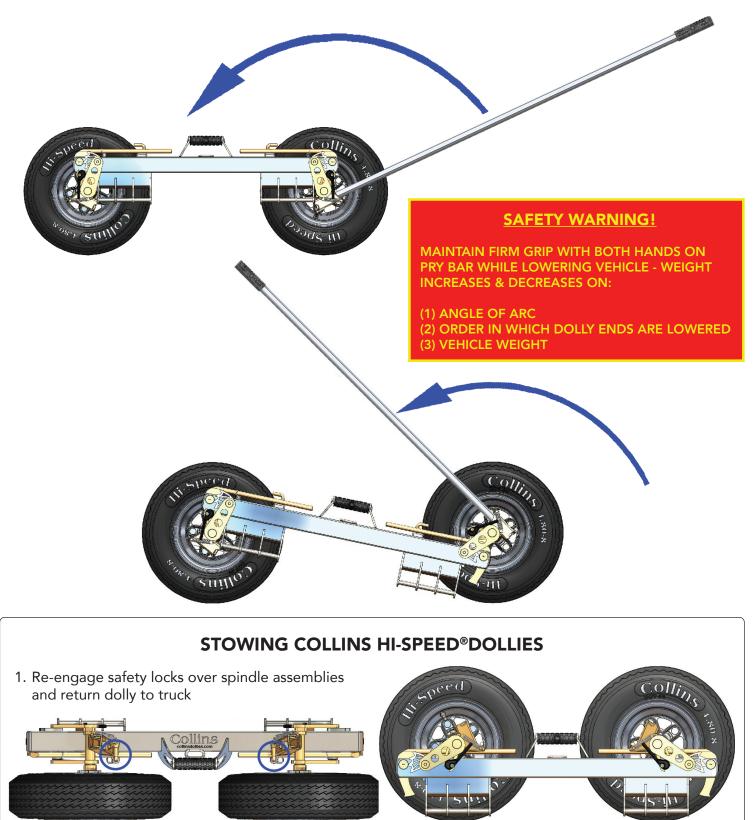


- 1. Insert pry bar into pry pocket.
- 2. Grip pry bar while at the same time lifting trip handle 4-1/4" allowing spindle assembly to rotate 3°. **NOTE:** AFTER SPINDLE ASSEMBLY ROTATES A 3° ARC OR 3/8" TRAVEL, IT WILL BE CLEAR OF TRIP ASSEMBLY
- Release trip handle and place both hands on end of pry bar.
 NOTE: AT THIS POINT, LOAD IS ABOUT 18 LBS AT END OF PRY BAR ON HEAVIER VEHICLES, LESS ON SMALLER VEHICLES.
- 4. With a firm grip with both hands, carefully let weight shift toward operator as pry bar is brought around, and end of dolly is gently lowered to the ground. Perform this for all four assemblies.



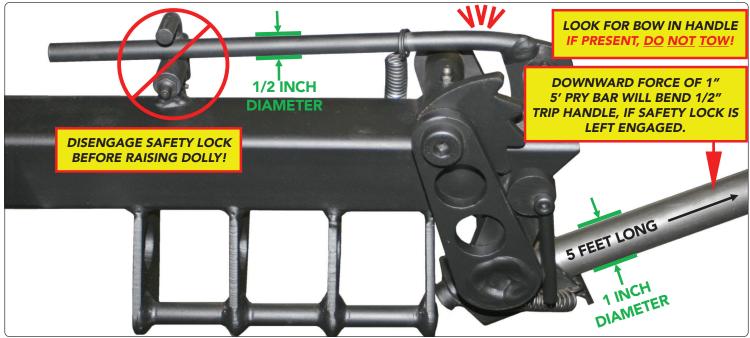
SLOW LOWERING COLLINS HI-SPEED®DOLLIES FROM 1986-PRESENT - continued

SKILL-SET LEVEL: Experienced — practice empty before actual loading!

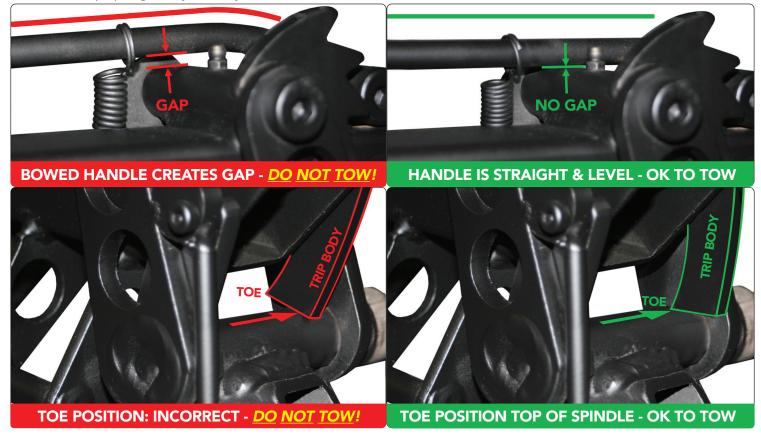


SAFETY TIPS FOR COLLINS HI-SPEED®DOLLIES FROM 1986-PRESENT BOWED TRIP HANDLE

Please refer to real-world photos below. Forcing spindle with a 1" diameter 5' pry bar, while safety lock is engaged will bend 1/2" Diameter trip handle, thereby changing trip body angle as shown in **red**, (bottom left). (Below is a 2016 Collins SLX Hi-Speed®Dolly)



To straighten handle, remove trip spring and slide long hollow bar over trip handle. Pry upwards until trip handle is straight and toe position of foot is top center of spindle, as shown below in **green**, (**bottom right**). Reattach trip spring. Dolly is ready tow.

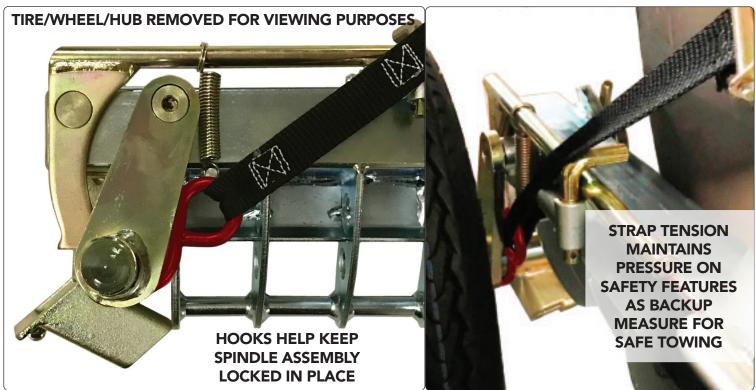


SAFETY TIPS FOR COLLINS HI-SPEED®DOLLIES FROM 1986-PRESENT SAFETY TIE-DOWNS

The 2-for-1 tie-down method of hooking the straps directly to the dolly spindles, (as recommended on page 14), not only secures the dolly to the towed vehicle, but in case of user error, also prevents unexpected release of the spindle assembly, giving the driver peace of mind while towing.

With the hook colored in **red**, the real-world photos below demonstrate, in more detail, the tie-down method.





COLLINS HI-SPEED®DOLLY INSPECTION/MAINTENANCE SCHEDULE

For safe dolly operation, follow the guidelines listed below:

DAILY/EACH-USE INSPECTION/MAINTENANCE:

» Refer back to page 4 under " SAFETY PRECAUTIONS "

MONTHLY INSPECTION/MAINTENANCE:

» Ensure spindle, trip, and safety lock assemblies are all properly lubricated and rotate freely

» Coat safety ratchets with WD-40 as needed to prevent sticking, then cycle ratchet cam to test

QUARTERLY INSPECTION/MAINTENANCE:

» Inspect hub bearings

- » When necessary, pack with high-temperature-rated bearing grease only
- » Maintain lug nut tightness at 85-95 ft-lbs.

SEASONAL MAINTENANCE:

» In harsh climates, generously coat all metal components with WD-40 to inhibit corrosion and rust

COLLINS HI-SPEED®DOLLY SPECIFICATIONS

COLLINS HI-SPEED®DOLLY-TIRE MANUFACTURER'S LOAD AND SPEED RATING:				
4.80 X 8 static load range c = 760 lb. @ 90 psi or	3,040 lb per set	(3,040 lb @ 55 mph, 2,865 lb @ 60 r	nph)	
4.80 X 8 static load range c = 345 kg. @ 6.2 Bar o	or 1,379 kg per s	et (1,379 kg @ 88 kph, 1,300 kg @ 97	kph)	
4.80 X 8 static load range d = 992 lb @ 100 psi o	r 3,968 lb per se	t (3,968 lb @ 55 mph, 3,740 lb @ 62 r	mph)	
4.80 X 8 static load range d = 450 kg @ 6.9 Bar c				
5.70 X 8 static load range d = 1070 lb. @ 100 psi	or 4,280 lb per	set (4,280 lb @ 60 mph, 4,034 lb @ 65 r	nph)	
5.70 X 8 static load range d = 485 kg. @ 6.9 Bar				
COLLINS HI-SPEED®DOLLY FRAME DIMENS4.80 Dolly loaded length:46.0"4.80 Dolly stowed length:36.5"4.80 Dolly height:16.5"4.80 Dolly depth:10.0"	5.70 Dolly load 5.70 Dolly load 5.70 Dolly stow 5.70 Dolly heig 5.70 Dolly dep	ved length: 39.5" ht: 18.5"		
COLLINS HI-SPEED®DOLLY CROSS RAIL LENGTHS:				
Aluminum 6-hole cross rail collapsed od:		eel 5-hole cross rail collapsed od:	61″	
Aluminum 6-hole cross rail extended usable:	84" St	eel 5-holecross rail extended usable:	84″	
Aluminum 10-hole cross rail collapsed od:	59" A	uminum 12-hole cross rail collapsed od:	66″	
Aluminum 10-hole cross rail extended usable:		uminum 12-hole cross rail extended usable:	104″	

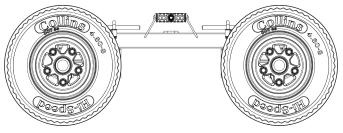
COLLINS MANUFACTURING CORP ("CMC")

Register your product to receive an extended warranty

Thank you for choosing Collins to meet your towing needs. As the industry leader and the towers choice for more than 45 years, we believe Collins Dollies (CMC products) are the highest quality professional towing equipment on the market. Our customers enjoy easy, safe operations of our Hi-Speed Dolly and Carrier Dolly systems to manage the most difficult towing challenges. We use high-quality materials to provide decades of durability while remaining lightweight for easy maneuverability, that why when it matters, you choose Collins.

Standard Warranty

We back all of our Collins Dollies products with a one-year limited warranty covering defects in materials and workmanship of your CMC product.



Hi-Speed[®]Dolly

Extended Warranty Available to First-User Purchasers with Product Registration

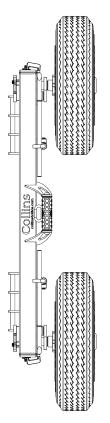
By registering your CMC product with us, we'll extend the limited warranty for a full second year--giving you a full 24 months of peace of mind. To activate the additional year of warranty coverage, submit the following registration form to Collins within _____ days of purchase. (Additional 12 months of warranty coverage is only available to the first-user purchaser.)

REGISTRATION FORM

Purchaser Name:	
Mailing Address:	
Email:	
Purchase Date:	
Where was the product purchased from? (Business name and/or website)	
Product Serial Number:	
Product and Model:	

COLLINS MANUFACTURING CORP ("CMC")

Register your product to receive an extended warranty

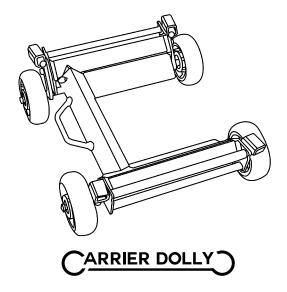


- Are you a first-time customer of Collins Dollies?
 ☐ Yes
- Is this purchase a replacement for a previously owned product?
 Yes, replacing a Collins Dollies product.
 Yes, replacing another brand product. (Brand: _____)
 - 🗌 No
- 3. Is this purchase for a new truck?
 - 🗌 Yes
 - 🗌 No
- 4. How did you learn about Collins Dollies?
 - Friends or Family Member
 - In-Person Dealer
 - Online Retailer
 - Social Media
 - □ Magazine or Publication
 - On the Job
 - Other: ______

SUBMIT YOUR COMPLETED FORM TO:

By Mail: Collins Manufacturing Corporation 301 Ehrman Way Medford, OR 97501

Or Scan and Email: sales@collinsdollies.com



Collins

collinsdollies.com

301 Ehrman Way, Medford OR 97501

Toll Free: 1 (800) 332 - 9220 Office: 1 (541) 774 - 9220 Fax: 1 (541) 774 - 9222

Email: sales@collinsdollies.com