Tire Slings

Small - 92091005
Large - 92091003

IOWA MOLD TOOLING CO., INC.

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TEL: 641-923-3711
TECHNICAL SUPPORT FAX: 641-923-2424

MANUAL PART NUMBER 99900416

PRECAUTIONS

WARNING

- BEFORE ANY MATERIAL LIFTING OCCURS, READ, UNDERSTAND AND FOLLOW ALL PROCEDURES AND PRECAUTIONS DESCRIBED IN ALL MANUALS ASSOCIATED WITH THE TIRE SLING, THE VEHICLE, AND DEVICE TO WHICH THE TIRE SLING IS ATTACHED.

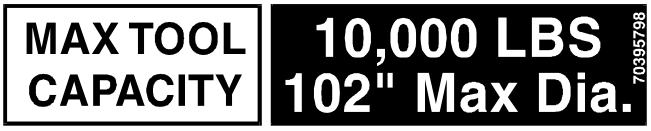
- OBEY ALL WARNINGS ON THE VEHICLE OR DEVICE TO WHICH THE TIRE SLING IS ATTACHED. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

WARNING

- THE IMT TIRE SLINGS ARE DESIGNED FOR THE LIFTING OF HEAVY EQUIPMENT TIRES ONLY. USE OF THE TIRE SLINGS FOR OTHER LIFTING PURPOSES IS NOT RECOMMENDED. DOING SO MAY RESULT IN SERIOUS INJURY OR DEATH.

- STAND CLEAR OF SUSPENDED LOADS. DO NOT LIFT THE TIRE HIGHER THAN IS NECESSARY. DOING SO MAY BE HAZARDOUS.

- DO NOT ATTEMPT TO LIFT MORE THAN THE RATED CAPACITY AS SHOWN BELOW. DOING SO MAY RESULT IN SERIOUS INJURY OR DEATH.



SMALL TIRE SLING

LARGE TIRE SLING

NOTE

To ensure safety, every user must be properly trained for the job to be performed.
The following organizations provide training and instructions in tire handling:

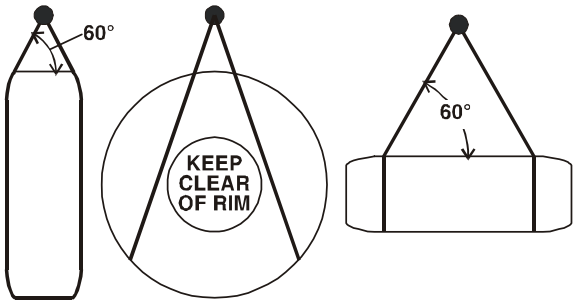
Tire Association of North America
11921 Freedom Dr., Suite 550,
Reston, VA 20190-5608
(Off-the-Road Tire Mounting/Demounting Instructions)

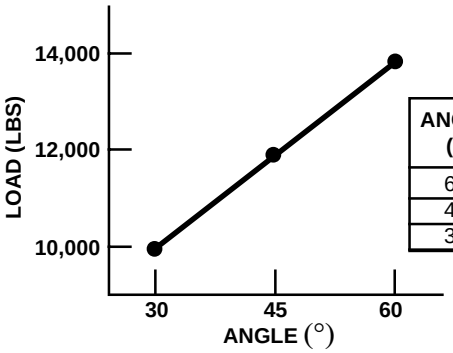
International Tire and Rubber Association
PO Box 37203,
Louisville, KY 40233-7203

This manual describes only the lifting and moving of tires with a proper sling.

WARNING

FOR PROPER SLING PLACEMENT, REFER TO THE ILLUSTRATION BELOW FOR BOTH LARGE AND SMALL TIRE SLINGS. IT IS RECOMMENDED, FOR MAXIMUM LOAD CAPACITY, THAT A 60° ANGLE BE KEPT BETWEEN THE CHAIN AND TIRE. THE CHAIN LENGTH MAY BE REDUCED DUE TO OPERATING OBSTRUCTIONS, BUT THE ANGLE WILL ALSO BE REDUCED, WHICH RESULTS IN A REDUCTION IN RATED LIFTING CAPACITY OF THE CHAINS. REFER TO THE TABLE BELOW FOR LARGE SLINGS. SMALL TIRE SLINGS ARE CAPABLE OF MAXIMUM CAPACITY FROM 60° TO 30°. DO NOT ATTEMPT ANY LIFT WHEN CHAIN ANGLE IS LESS THAN 30°.





ANGLE (°)	WORKING LOAD LIMIT (LBS)
60	14,000
45	12,000
30	10,000

NOTE

THE TIRE SLINGS ARE EQUIPPED WITH A SAFETY LOCK PIN AS SHOWN BELOW. SECURE THE LOCK PIN BEFORE A LIFT IS PERFORMED.

SAFETY LOCK PIN

INSPECTION

Each day, before use, the tire sling must be inspected for damage and defects by a competent person designated by the owner/employer. Additional inspections shall be performed during sling use, as service conditions warrant. Damaged and/or defective tire slings shall be removed from service immediately.

For specific procedures to perform safety inspections, refer to the appropriate OSHA or MSHA standard and your employer's work rules.

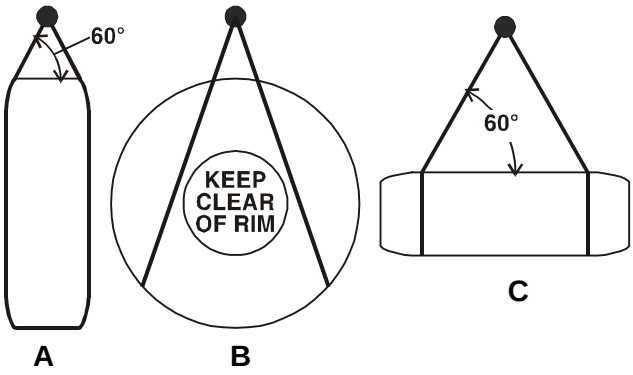
TIRE REMOVAL

NOTE

Refer to the Tire Association of North America's Off-the-Road Tire Mounting/Demounting Instructions for detailed tire mounting instructions. This manual describes only the lifting and moving of tires with a proper sling.

- Select the proper tire sling based on the weight/ dimension of the tire and the tire sling capacity.

- Position the tire sling by placing the chains as shown in Figures A, B and C.



NOTE

IT IS RECOMMENDED THAT THE 60° ANGLE BE COMPLIED WITH EVEN WHEN HANDLING SMALLER DIAMETER TIRES.

- To lift tire off the rim, position tire chains so they clear rim and hub (as shown in Figure B above) and maintain the recommended 60° angle. Raise the boom slowly to tighten chains, but do not remove tire until chain rollers have safely locked in place.

WARNING

- If the operator is not careful, a tire may become loose and fall.
- The operator should always avoid being under the load.
- The operator should always pay attention to the task at hand.
- The operator should always leave himself an escape route.

LAYING TIRE ON GROUND

- With tire sling locked and in the vertical position, set tire on ground, keeping the chains tight.

- Rotate and lower while keeping chains taught.

- Once tire is resting on ground and chains have slack in them, unlock pins for ease of manuevering to the horizontal position.

NOTE

WHEN MANUEVERING TIRE, KEEP CHAIN HOOKS CLEAR OF ROLLERS.

- Lock pins back into place and lift tire off ground just far enough to slide blocks under the tire. Rest tire on blocks to facilitate ease of removing chains.

CAUTION

DO NOT LAY TIRE DIRECTLY ON CHAINS AND ATTEMPT TO PULL CHAINS FROM BENEATH TIRE. DOING SO MAY DAMAGE TIRE AND ALSO MAKES THE JOB MORE DIFFICULT.

LIFTING FROM HORIZONTAL TO VERTICAL

- Position sling and boom as shown on reference page (VERTICAL POSITION). Lock pins and slowly raise boom to lift tire off blocks and into the vertical position.

TIRE MOUNTING

NOTE

Refer to the Tire Association of North America's Off-the-Road Tire Mounting/Demounting Instructions for detailed tire mounting instructions. This manual describes only the lifting and moving of tires with a proper sling.

- When lifting tire with sling, be sure sling chains are clear of the bead area.

- Be sure sling chains have a proper hold on the tire.

- When tire is partially mounted, sling chains may become slack; be sure to maneuver boom tip in front of tire to guard tire from falling.

- It is a good safety practice to leave the crane boom tip against the tire while mounting, to secure it.

REFERENCE PHOTOS

HORIZONTAL POSITION

LOCK PIN SETTING

VERTICAL POSITION

The adjustable locking sling is used to efficiently maneuver from the horizontal to vertical lifting position.

SECURING THE LOAD USING THE LOCK PIN

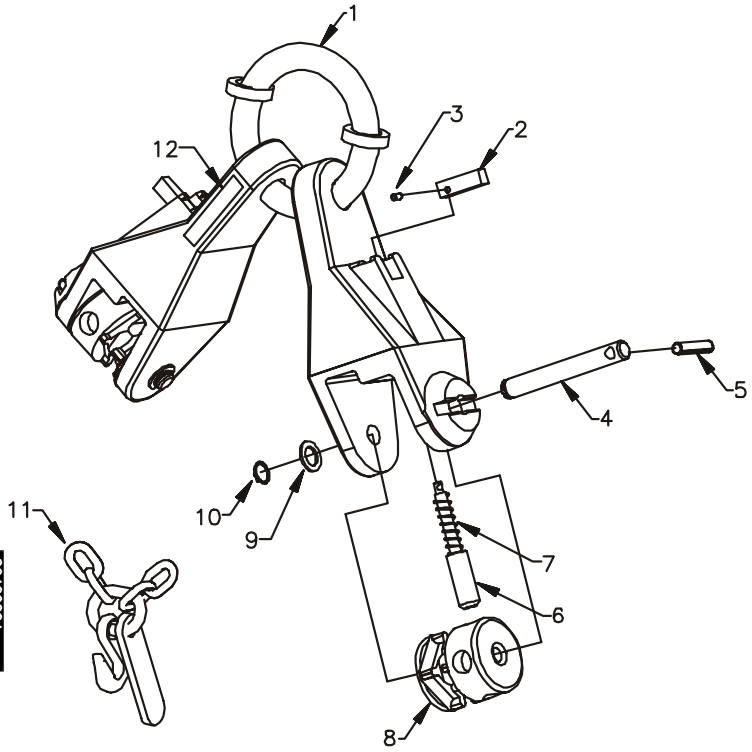
LIFT MADE IN HORIZONTAL POSITION

LIFT MADE IN VERTICAL POSITION

PARTS

SMALL TIRE SLING (92091005)

ITEM	PART NO.	DESCRIPTION	QTY
1.	52702466	BODY	1
2.	60102693	TRIGGER LOCK PIN	2
3.	72066598	PIN-SPRING	2
4.	60102839	PIN-SPROCKET	2
5.	72066319	PIN-ROLL	2
6.	60102691	PIN-LOCK	2
7.	70014074	SPRING	2
8.	60020098	SPROCKET	2
9.	72063027	MACH BUSHING	2
10.	72066072	RING-RETAINING	2
11.	70058078	CHAIN ASM	2
12.	70395798	DECAL-LOAD CERT-10,000 LBS	1

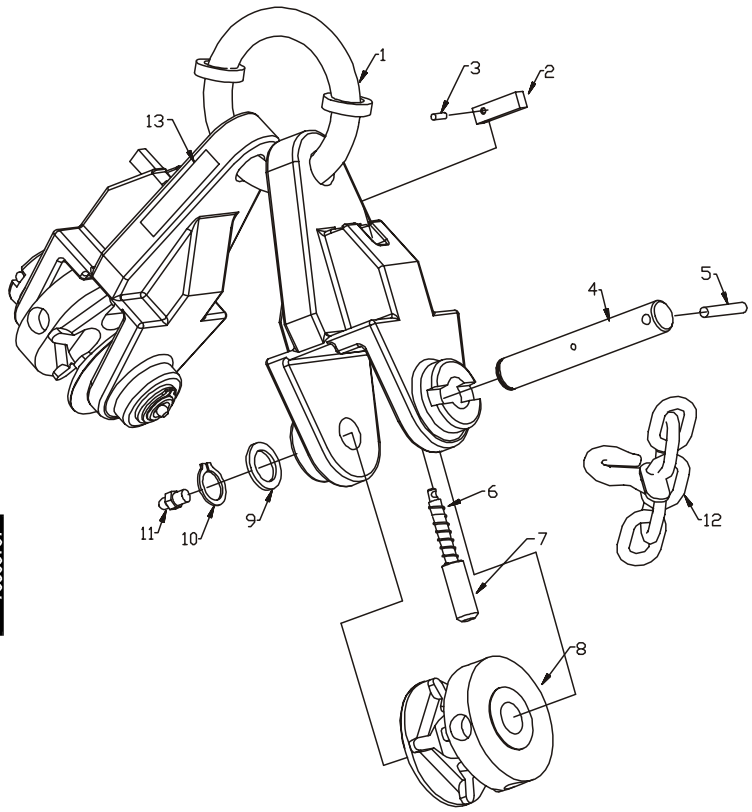


MAX TOOL CAPACITY **10,000 LBS 102" Max Dia.** 70395798

TIRESLING:92091003.01.20000803

LARGE TIRE SLING (92091003)

ITEM	PART NO.	DESCRIPTION	QTY
1.	52702467	BODY	1
2.	60102693	TRIGGER LOCK PIN	2
3.	72066598	PIN-SPRING	2
4.	60102695	PIN-SPROCKET	2
5.	72066754	PIN-ROLL	2
6.	70014074	SPRING	2
7.	60102691	PIN LOCK	2
8.	60020099	SPROCKET	2
9.	72063033	MACH BUSHING	2
10.	72066125	RING-RETAINING	2
11.	72053508	ZERK-GREASE 1/8NPT	2
12.	70580120	CHAIN ASM	2
13.	70395797	DECAL-LOAD CERT-14,000 LBS	1



MAX TOOL CAPACITY **14,000 LBS 122" Max Dia.** 70395797

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