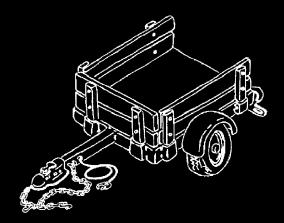
# Coyote Steel & Co.



# No. 1 Handbook of TRAILER RUNNING GEAR For Industry

2030 Cross Street Eugene, Oregon 97402-7610

**USA** 

## Phone: 541-461-2060

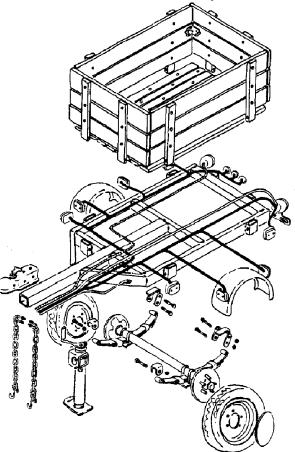
Toll-free: 1-800-553-0240 FAX: 541-461-0299 www.CoyoteSteel.com

"Coyote Steel, Where It's All About You."

#### No. 1 Handbook of

# TRAILER RUNNING GEAR

For Industry



#### - PUBLISHER'S WARNING -

Every effort has been made to make this handbook as accurate as possible. However, there may be mistakes. This publication is designed to provide basic information for general reference. For more specific information see manufacturer specification sheets. If advice or assistance is required, the services of an expert in this field should be sought. The publisher, writer, or any and all distributors of this book make no express or implied warranties and take no responsibility for errors or omissions of the matter contained herein.

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### ABOUT THIS BOOK

So you're planning to build your own trailer or modify one. Well, this book will be helpful; it's a components and parts quide. The simple illustrations and text will take you from towing systems, safety check, maintenance and towing hints onto components, running gear, suspension, fenders, lights and wire, hardware and more. After reviewing the book start your design process. First contact your state's motor vehicles department and obtain a copy of your state's trailer rules and regulations. Then evaluate your towing vehicle's capability and any improvements which may be necessary. Next, decide on a hitch system capable of your towing objectives and gross load. When designing your trailer, remember that your trailer's capacity and performance depends on your careful considerations, proper engineering and design concepts coupled with quality goods and craftsmanship. Yes, used is used, so don't cut corners as you may find it's just not cheaper! Don't underbuild; your trailer's capacity, safety and performance hinges on the weakest link in your trailer design chain-towing vehicle, towing system and your trailer. Good luck!

The COYOTE Steel People



# TABLE OF CONTENTS

Introduction	3-5 6 7 8 9-10 11-12 13 14 15 15 16 17 19-20 18 21 22 23-24 25 26-27 28 29	Axle Measurement Charts	34 35 36 37 38 39 40 41-42 43 44-45 46-47 48 49 50-51 52 53 54-55
Bearing Protectors	30		

# INDEX

Axle Measurement Charts	31-33
Axles, New, Straight & Drop	34
Axles, Rubber Cushioned	
Axle & Spring Attachment Parts.	39
Ball Mounts for Box End	13
Bearing Protectors	30
Brake Actuators, Surge	
Brake Parts, Electric	
Brakes, Electric, Troubleshooting	
Brake Parts, Hydraulic	43
Brakes, Hyd., Troubleshooting	44-45
Couplers, Forged Steel	15
Couplers, Gooseneck	
Coupler Specifications	14
Drawbars	17
Fenders	
Hitches, Class II	8
Hitches, Combination	16
Hitches, Equalizing	9-10
Hitches, (5th Wheel) & King Pins	22
Hitches, Weight Carrying	7
Hubs, High Speed Trailer	28
Jacks	

Jacks, 5th Wheel, Stabilizing Lights/Brackets, Rear Lighting Diagram Lighting Requirements Marker, Clearance, Cab Lights Pintle Hook Mounts Pintle Hook & Eyes Safety Chains Safety Check, Maint Springer Springs Springs, Double Eye Springs, Double Eye Track & Spring Centers Trailer Ball Specifications Towing System Definitions Wheels & Tires Chart Inside Ba Winches, Hand Wire Color Code	54-55 49 48 53 17 16-18 15 6 38 29 37 56 35 11-12 3-5 ck Cover 26-27 52
Wire Connectors	
WILE COURSECTOR 3	50-51

#### TOWING SYSTEM DEFINITIONS

A towing system includes the towing vehicle, everything in between it and the trailer:

A Towing vehicle

**B** Trailer hitch

© Trailer hitch ball

Coupler

Safety chains

Sway control

Wiring harness

#### A Towing Vehicle:

A towing vehicle's capability to handle gross trailer and tongue weight is a must. Refer to your owners manual and review the towing vehicle's max load ratings. Most towing equipment is rated by its capacity to handle gross trailer weight, trailer tongue weight, or both. Gross trailer weight is the weight of the trailer plus all cargo in it. Tongue weight is the downward force exerted on the hitch ball by the trailer coupler with no weight distributing device.. Tongue weight should be about 10% max. of gross trailer weight for proper towing. Your tow vehicle may require additional equipment such as, air shocks or overload springs, transmission air cooler, engine air cooler or both. Don't forget proper mirrors.

#### B Trailer Hitches:

There are two basic types of trailer hitches for conventional trailers: #1 weight carrying type or #2 weight distributing or "equalizing" type.

#1 Weight Carrying Hitches:

These hitches support trailer tongue weight totally & are the most popular for towing small to medium size trailers. They include: step bumper hitches, bumper hitches, class I & II draw bar bolt-on hitches, step bumper\* box end hitches, class I & III bolt-on\* box end receiver tube type, and custom installation tow bar receiver\* box end type. All factory hitches are rated by gross load & tongue weight capacity and, of course, may be limited by your tow vehicle's capacity (see page 8).

\*Box end receiver tube type designed with 2" square I.D. Tube receiver designed to accept utility ball mount inserts for weight carrying applications (see pages 9-10).

#### TOWING SYSTEM DEFINITIONS

#2 Weight distributing or "Equalizing" Type Hitch Systems Class IV: This system utilizes a special hitch head with spring bars attached which provide leverage between tow vehicle & trailer thus distributing tongue weight & the "in vehicle" loaded weight to all towing vehicle & trailer wheels. This transfer causes the vehicle & trailer to achieve a level towing condition allowing greater tongue weight & gross load to be carried, while the tow vehicle & trailer tend to remain level. Additionally, by levelling tow vehicle & trailer, headlights return to the legal position, not raised above normal angle due to excess weight on rear of towing vehicle. Also, braking is positive due to equal weight on all braking wheels & steering ability is improved because the required load is returned to steering wheels & avoids steering float. Weight distributing hitches are commonly used to tow medium to large travel trailers or for towing smaller trailers with downsized cars & trucks (see pages 10-11).

Equalizing hitches consist of 4 major components:

- 1. Draw bar box end receiver tube-sleeve- 2" square I.D.: A B & C custom "3 point" installation, D bolt-on factory receiver/draw bar kit 2. Head/ball mount & shank (sound steel hitch bar): E F & G weld-on type items, H I & J bolt-on type items
- 3. Spring bars & chain K
- 4. Quick hook-up clips L

#### C Trailer Hitch Ball:

Hitch balls are selected by gross trailer weight & must match the socket size of the trailer coupler. The ball shank or bolt must be compatible with hole size & thickness of the mounting area on the hitch or ball mount. A lock washer must be used-- never weld. Balls are available in a variety of types & sizes including extra lift balls to fit a wide variety of applications. Balls should be lubricated with heavy grease (see pages 12-13).

#### Trailer Couplers:

The coupler is part of the trailer & an important component of the towing system. The coupler is the part of the trailer that attaches to the hitch ball. Coupler are available in 3 basic channel sizes for straight (pole) tongue trailers or "A" frame type or "v" shape with 50° angle. Couplers are available for 3 basic trailer ball sizes, 1 7/8", 2" or 2 5/16" and must be properly selected to match trailer tongue

#### TOWING SYSTEM DEFINITIONS

weight & gross load. The coupler's socket must match trailer ball size & should be smooth & clean. The coupler latch mechanism should be lubricated with light oil & socket with heavy grease (see pages 15-16).

#### Safety Chains

Safety chains are part of the trailer. The braking strength of each chain and its attachment must equal or exceed the gross weight of the trailer. Safety chains are available in a variety of capacities, lengths, etc. Safety chains must be properly affixed to the trailer (do not weld) & correctly attached to the tow vehicle (see page 7).

#### ♠ Sway Control Device (optional):

Sway control devices attach to the hitch at the forward end & to the trailer frame at rear end. sway controls can help minimize effects of sudden maneuvers, wind gusts & buffeting caused by other vehicles, especially large tractor/trailer types. Sway controls create a resistance as the towing vehicle & trailer turn with respect to each other. Select a sway control that allows resistance to be adjusted for varying conditions. These devices are highly recommended for trailers with large surface areas such as travel trailers. They are also an aid in towing trailers with a low percentage of tongue weight to gross load (see page 11).

#### **6** Tow Vehicle Wiring Harness:

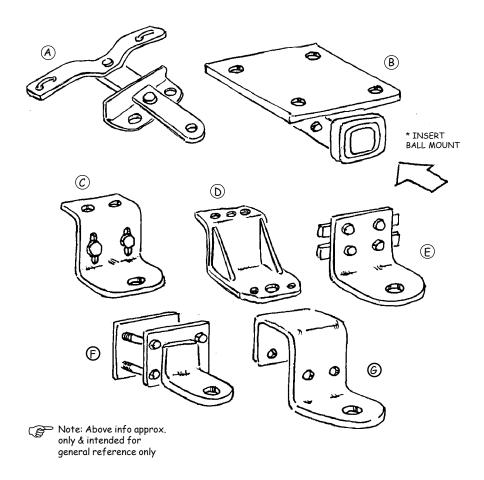
Provides positive & quick connection for all required trailer lights & electric trailer brakes if applicable (see pages 52-54).

Note: This book contains info on hydraulic surge actuators for trailers with hydraulic braking systems, gooseneck couplers, 5th wheel towing systems & pintle hooks/rings.

#### SAFETY CHECK, MAINTENANCE & TOWING HINTS

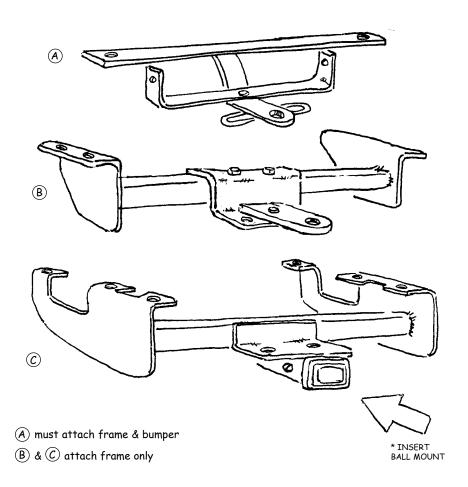
- A. Trailer Hitch: Check for loose nuts & bolts. Inspect for damage.
- B. Trailer Ball: Check for damage. Make sure ball is tight. Use heavy grease on ball to lubricate & prevent abnormal wear.
- C. Coupler: Check for tightness of coupler & ball. Inspect for damage. Keep latch mechanism lubricated with light oil & socket with heavy grease.
- D. Safety Chains: Attach to trailer (do not weld) & hook to tow vehicle. Should be rated to match capacity of trailer. Chains should be crossed under tongue (as illustrated) to form safety cradle to hold trailer tongue off ground in the event of a failure. Crossing chains in this manner will require very litle slack for turning. Safety chains should be secure, not drag on the ground & provide just enough slack to allow for turning.
- E. Electrical: Inspect for dangling, loose, frayed, corroded or pinched wires. Check all lightbulbs & connections.
- F. Wheels & Tires: Check air pressure, lug nuts, tire wear & sidewall cracking.
- **G.** Hubs: Check for proper lubrications. Important: inspect for worn or scarred bearings & races.
- H. Suspension: Inspect for worn or damaged bushings, loose nuts & bolts, and damaged hangers or springs. Rear shackle bolts must be kept well lubricated.
- I. Trailer Sway: Too little or too much tongue weight. Inadequate suspension. Too short tongue. Too short tow vehicle wheel base. Too much rear trailer weight. Watch your speed!
- J. Carry spare parts & tools: spare tire & wheel, hub & bearings, grease, lug wrench, screwdriver, hammer, pliers, jack, light bulbs, wire, electrical tape, flares. Prepare for the worst!
- K. Tow Vehicle: Is it adequate & safe?

WEIGHT CARRYING HITCH SYSTEMS					
Type/Description Tongue Gross Wt. Approx. Load Ma					
(A) Class I Custom Bolt-on Hitch	200#	2000#			
® Step Bumper* Box End	500#	5000#			
© Pick-up Step Bumper	350#	3500#			
(b) " " "	u	u			
© Jeep/Motor Home Flat Face	300#	3500#			
© Motor Home Hose Bumper	200#	2000#			
<u></u>	u l	ıı .			



# CLASS II WEIGHT CARRYING HITCHES DRAW BAR & \*BOX END TYPE

- (A) Heavy Duty Bolt-on Draw Bar Hitch
  Tongue load to 300# & gross loads from 3500#—4000#
  Attaches to bumper & frame
- Bolt-on draw bar hitch tongue loads to 350# & gross loads to 3500#
- © \*Box End Type Frame Bolt-on Receiver Tube Hitch Tongue loads to 1200# & gross loads 5,000#—10,000#



#### Bolt-on Receiver Kit/Drawbar Kit

(D) \*Box End Type Frame Bolt-on Receiver Tube Hitch Tongue loads to 1200# & gross loads 5,000#—10,000#

Weld-on Ball Mount/Head	Max. Vertical	Max. Gross Wt.
€ 400# Tongue Weight UN	4000#	10,000#
€ 550# " " " I	5500#	10,000#
(E) 750# " " R S	7500#	10,000#
€ 1000# " " Å	10,000#	10,000#
<b>€</b> 1200# " "	10,000#	10,000#

#### Weld-on Shank / Solid Steel Hitch Bar

- (F) Straight shank
- G High—Low—Allows 12 1/4" height adjustment

#### Bolt-on Ball Mount/Head

(H) Same capacity as weld-on (see above)

#### Bolt-on Shank / Solid Steel Hitch Bar

- ① Extra deep drop— allows additional 3 1/4" drop
- (J) High-Low-7 1/2" drop / 5 1/2" lift

#### Spring Bars & Chain

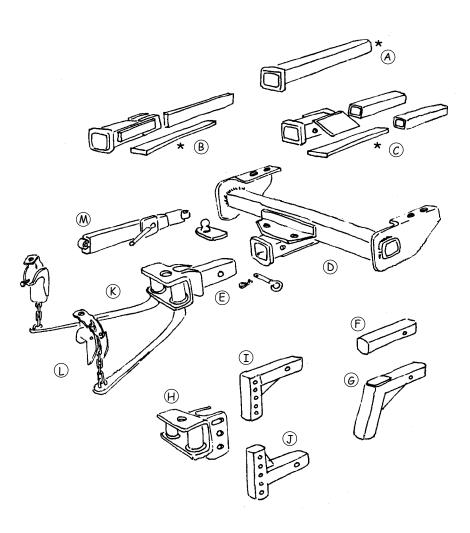
- \( \mathbb{K} \) 400# Tongue Weight Rating
- K 550# " "
- K 750# " "
- K 1000# " '
- (K) 1200# " '
- (L) Quick Hook-up Clips
- M Sway Control Device

\*IMPORTANT: Items (A) B&C require additional reinforcing materials (steel) to achieve the required "3-point" installation

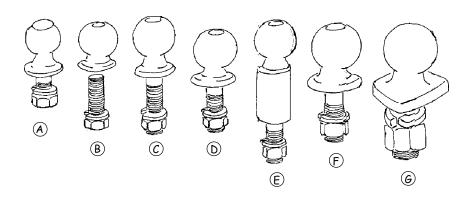
# WEIGHT DISTRIBUTING OR LOAD EQUALIZING SYSTEM TONGUE LOADS TO 1200# & 10,000# GTW

#### Custom Installation Vehicle Parts

- (A) Combo Draw Bar (Sleeve) Receiver Tube
- (B) Bar Draw Bar (Sleeve) Receiver Tube
- © Tubing Draw Bar (Sleeve) Receiver Tube



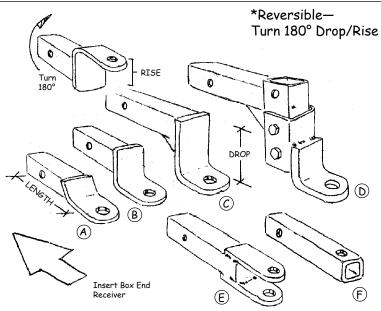
TRA	TRAILER BALL SPECIFICATIONS					
#	Ball Size & Dimensions	Gross Load				
(A)	"Two Piece" Ball					
	17/8" Dia. x 5/8 Bolt	2000#				
	2" Dia. x 3/4"	3500#				
B	Internal Thread (Bolt) Ball					
	17/8" Dia. × 3/4" Bolt × 2"	2000#				
	2" Dia. x 3/4" Bolt x 2"	3500#				
	2" Dia. x 3/4" Bolt x 2"	4000#				

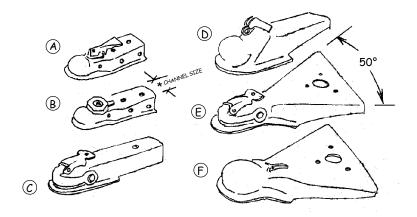


TRA	TRAILER BALL SPECIFICATIONS						
#				Ball Dia.	Shank Dia.	Shank Length	Gross Load
C	Long Shank - Required for some step bumpers						
	"	ıı	II	1 7/8"	3/4"	3"	2000#
	"	"	II .	2"	3/4"	3"	3500#
	"	"	II .	2"	3/4"	3"	3500#
	"	"	"	2"	1"	3"	5000#
	"	"	II .	2 5/16"	1 1/4"	3 1/4"	10,000#
	"	II	"	2 5/16"	1 1/2"	2 1/2"	10,000#

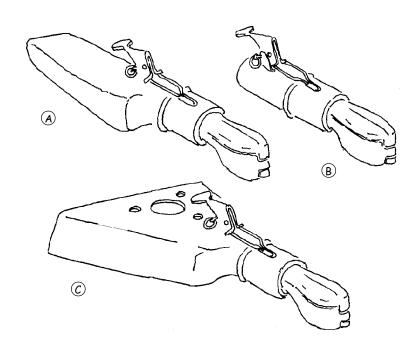
TRA	TRAILER BALL SPECIFICATIONS cont.						
#	Desci	ription		Ball Dia.	Shank Dia.	Shank Length	Gross Load
<b>D</b>	Std.	Shank—	Solid S	Steel			
	"	ıı .	"	1 7/8"	3/4"	2 1/8"	2000#
	ıı .	"	"	1 7/8"	1"	2 1/4"	2000#
	ıı .	"	"	2"	3/4"	2 1/8"	3500#
	ıı .	"	"	2"	1"	2 1/4"	5000#
	ıı .	"	"	2"	1 1/4"	2 1/4"	7500#
	u .	"	"	2 5/16"	1"	2 1/4"	6000#
	"	ıı .	"	2 5/16"	1 1/4"	2 1/2"	10,000#
	"	"	"	2 5/16"	1 3/8"	2 1/4"	10,000#
	"	ıı .	"	2 5/16"	1 1/4"	2 1/4"	30,000#
	"	ıı .	"	2 5/16"	1 3/8" w/1" rise	2 3/4"	30,000#
	"	ш	"	2 5/16"	1 3/8" w/2" rise	2 3/4"	30,000#
	"	ıı	"	3"	2"	3 1/4"	30,000#
E	High	Lift Sh	ank				
				2"	1"	1"	5000#
	"	"	"	2"	1"	2"	3500#
	ıı .	"	"	2"	1 1/4"	1"	6000#
	"	"	"	2 5/16"	1 1/4"	1"	7000#
	"	"	"	2 5/16"	1 1/4"	2"	5000#
	ıı .	"	"	2 5/16"	1 3/8"	1"	8000#
F	"Hea	vy Duty	" Shank	— Solid S	teel		
				2"	3/4"	2 1/8"	3000#
	"	ıı .	"	2"	1"	2 1/8"	5000#
	"	ıı .	"	2"	1"	2 1/8"	7000#
	"	II .	"	2 5/16"	1 1/4"	2 3/4"	12,500#
G	*Ind	ustrial "	Extra H	leavy Duty	" Shank—	Forged	
	WARN	ue to 460/600 NING: Lock wo	ishers must	2 5/16"	1 3/8"	2 1/2"	13,000#
	oriente	d. Wrench flat ed parallel to t	owing	2 5/16"	1 3/8"	2 1/2"	40,000#
	direction. Do not weld ball.  Maintenance: Bolt or nut should be checked & tightened to correct torque.  Check for ball wear & lubricate with bearing grease.						

	BALL MOUNTS FOR BOX END HITCHES * REVERSIBLE (RISE OR DROP)					
#	5000# Gross Load 500# Tongue Load	Length	Drop	Rise		
A	и и и	8"	2"	3/4"		
"	и и	101/2"	2"	3/4"		
B	и и	61/2"	31/4"	2"		
"	и и	101/2"	31/4"	2"		
<b>©</b>	и и	9"	51/2"	4"		
"	и и	101/2"	51/4"	4"		
"	и и	10"	8"	63/4"		
"	и и	101/2"	10"	83/4"		
<b>D</b>	Adjustable Type	10"	71/2" max.	61/8" max.		
E	Ring & Pintle	15"	None	None		
F	3500# Gross Load 350# Tongue Load	10" to 13"	None	None		



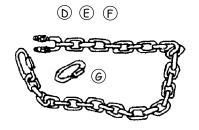


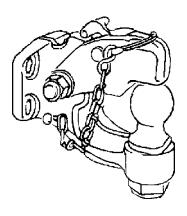
TRAILER COUPLER SPECIFICATIONS						
Туре	* Channel Size	Ball Size	Tongue Load	Gross Load	SAE Class	
A Lock Type Coupler	2"	1 7/8"	200#	2000#	I	
for gross loads 2000# or 3500#	2 1/2"	"	"	"	"	
2000# 01 3300#	3"	"	"	"	"	
	2"	2"	300#	3500#	II	
	2 1/2"	"	"	"	"	
	3"	"	"	II .	"	
5000# Capacity	3"	"	ıı .	5000#	III	
B Screw Handle	2"	1 7/8"	200#	2000#	I	
Type Coupler fits 1 7/8" or 2" Ball		2"	300#	3500#	II	
	2 1/2"	1 7/8"	200#	2000#	I	
Note: 1 7/8" ball= 2000#		2"	300#	3500#	II	
2" ball= 3500#	3"	1 7/8"	200#	2000#	I	
		2"	300#	3500#	II	
© Straight Tongue	2"	2"	750#	5000#	III	
<b>D</b>	3"	2 5/16"	1275#	8500#	IV	
E "A" Frame	_	2"	750#	5000#	III	
(F)	_	2 5/16"	1500#	10,000#	_	
Note: Gross Load Limita	ations/Max	imum		·		



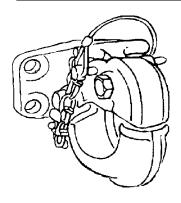
FORGED STEEL COUPLERS					
Туре	Fitting Size	Ball Size	* Gross Load		
A Straight Square	3" channel	2"	5000#		
Tongue	size I.D.	2 5/16"	12,500#		
B Round Straight	Tube Shank	3"	5000#		
Tongue	2 1/4" O.D.	2 5/16"	12,500#		
©"A" Frame	"A" Frame 50° Angle		5,000#		
"Y" Type Tongue	"A" Frame	2 5/16"	12,500#		
*Note: Indicates gross vehicle weight rating					

SAFETY CHAINS						
Туре	Class	Load				
<b>b</b> x 32"	I	2000#				
E "	II	3500#				
(F) "	III	5000#				
© Chain Clip						

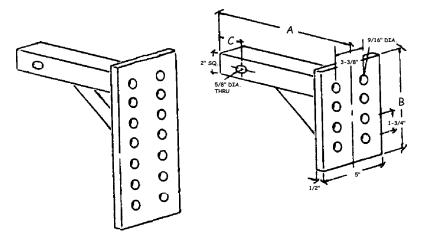




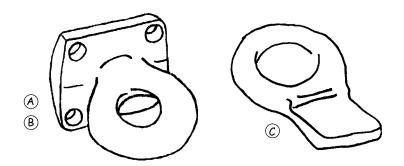
COMBINATION HITCHES					
Description Ball Pintle Capacity Ball Hitch   Size   # Vertical   Max Trailer Wt.   Capacity					
Hitch w/Ball	1 7/8"	3000	16,000#	2000#	
Hitch w/Ball	2"	3000	16,000#	7000#	
Hitch w/Ball	2 5/16"	3000	16,000#	12,000#	



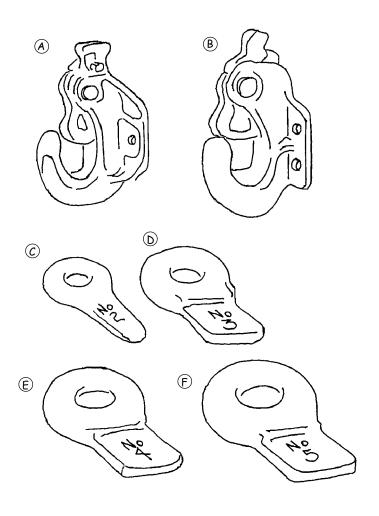
FORGED HEAVY-DUTY PINTLE HOOK						
Description Vertical Max. Trailer   Load (lbs.)   Weight (lbs.)						
#5	2000	10,000				
#15	6000	30,000				
#20	6000	40,000				
#35	18,000	70,000				



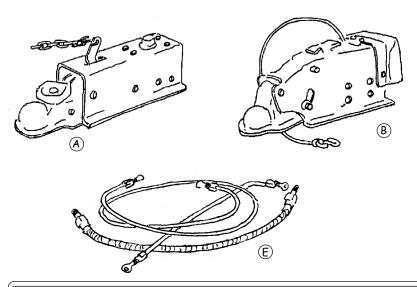
PINTLE HOOK MOUNTS						
Description	A (in.)	B (in.)	C (in.)	Pairs of Holes		
Short	8.5	7.25	3	4		
Long	12.5	13	2.5	7		
Long	14.5	13	2.5	7		



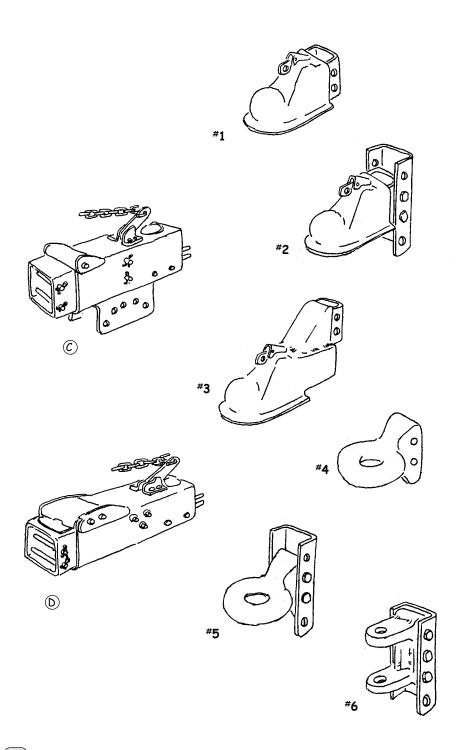
DRAWBARS					
#	Description	I.D.	Vertical Load	Max. Trailer Weight	
A	w/4 1/2" Sq. Mounting Pattern	2 1/2"	7,000#	35,000#	
B	w/4 1/2" Sq. Mounting Pattern	3"	15,000#	60,000#	
C	7" overall w/4 1/2" O.D.	2 1/2"	1000#	10,000#	

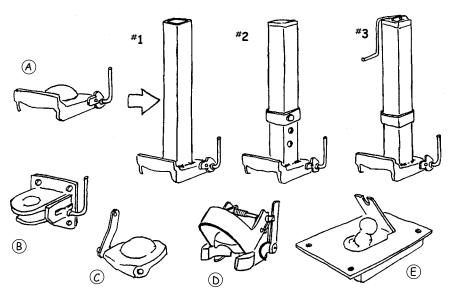


PIN	TLE HOOKS & REACH EYES		
#	Description	Tensile	I.D.
A	Pintle Hook	15,000#	_
B	Pintle Hook	30,000#	_
<b>©</b>	#2 Reach Eye	12,000#	2"
<b>D</b>	#3 Reach Eye	70,000#	2 1/6"
E	#4 Reach Eye	90,000#	23/8"
F	#5 Reach Eye	90,000#	2 5/8"



HYDRAULIC SURGE BRAKE ACTUATORS						
Туре	Tongue Load	Gross Weight				
A Medium	Duty 2" Ball x	3" Cł	nannel Size	_	6000#	
B Medium	Duty 2" Ball x	3" Cł	nannel Size	_	6000#	
© Heavy D		#1	2 5/16" Ball Coupler	800#	10,000#	
Less Cou	ıpler	#2	Adjustable Coupler	u u	"	
	Fits to	#3	Drop Coupler	u u	"	
	FIIS 10	#4	3" Lunette Eye	u .	ıı .	
		#5	Adjustable Lunette Eye	u	u .	
		#6	Adjustable Clevis Hitch	u	"	
	eavy Duty	#1	2 5/16" Ball Coupler	2000#	20,000#	
Less Cou	ıpler	#2	Adjustable Coupler	n .	12,000#	
	F:44.4-	#3	Drop Coupler	2000#	20,000#	
	Fits to	#4	3" Lunette Eye	_	12,000#	
		#5	Adjustable Lunette Eye	_	12,000#	
#6 Adjustable Clevis Hitch 2,000# 20,000#						
© Hydraulic Line Kits— Piping Instructions						
Inquire	for application,	/inst	allation information.			

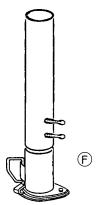


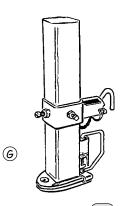


#### GOOSENECK COUPLERS

#### # Description

- (A) 25,000# Gooseneck Coupler Wide Angle Self Centering w/
  - #1 Fixed Stem
  - #2 Drop Tube Stem
  - #3 Adjustable Stem
- Ball Coupler \*Pull Type Bolt On 25,000# G.V.W.
- © 24,000# Rated Gooseneck Coupler— Welds to 3" - 4" Pipe
- (b) Automatic Locking 2 5/16" Gooseneck Coupler, 20,000# G.V.W.
- © Retractable 2 5/16" Ball Mount Assembly 25,000# G.V.W.
- (F) Adjustable Round Tube 2 5/16" Gooseneck Coupler, 20,000# G.V.W.
- G Adjustable Square Tube 2 5/16" Gooseneck Coupler, 20,000# G.V.W.

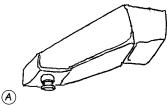


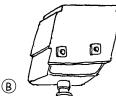


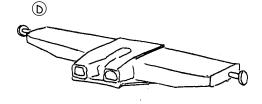


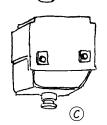
#### # Description

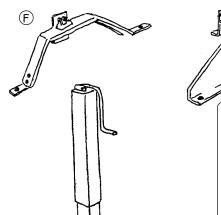
- A 45° King Pin Box
- (B) 72° Adjustable King Pin Box
- © 90° Adjustable King Pin Box









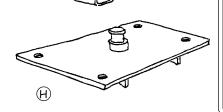




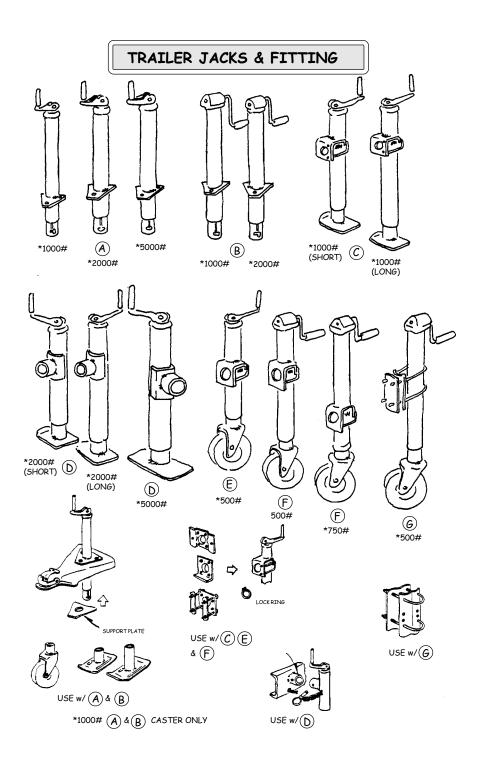
(E)

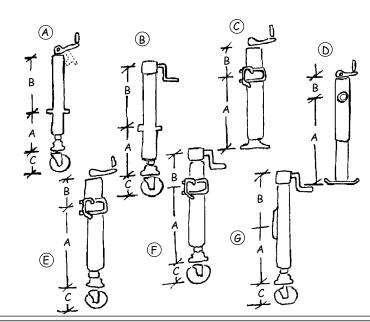
#### # Description

- **D** 5th Wheel Hitches for R.V.s
  - 1. 36" × 10,000# *G*.V.W.
  - 2. 48" × 12,000# G.V.W.
  - **3**. 54" × 12,000# *G*.V.W.
- (E) Mini & Standard Pick-up 48" Rail
- (F) Over Fender 54" Side Rail
- Mini 5th Wheel w/Adjustable Stem, 30,000# G.V.W.
- (H) Retractable King Pin & Plate 30,000# G.V.W.



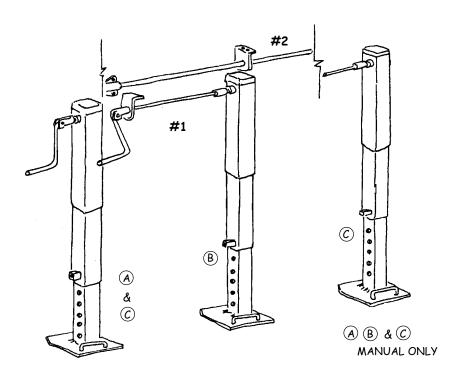
(G)





JACKS- "A" FRAME, SWIVEL & STRAIGHT TONGUE								
Description	Сар. #	Ext. Travel	*A Ret.	*A Ext.	В	С	Bra WELD ON	cket   BOLT   ON
A Frame Top Wind	1000#	15	7 1/2	22 1/2	13 1/2	6 7/8	_	_
	2000#	15	8 1/2	23 1/2	14 1/4	6 7/8	_	_
	5000#	14	11 1/2	25 1/2	10	6 7/8	_	_
B A Frame Side Wind	1000#	15 1/2	7 3/8	22 7/8	14 7/8	6 7/8	_	_
	2000#	13 3/4	8 1/2	22 1/4	14 1/8	6 7/8	_	_
© Lock Pin Swivel Top Wind	1000#	10	11 5/8	21 5/8	3 3/8	_	Х	Х
	1000#	15	15	30	6	_	Χ	Х
D Tube Mount	2000#	10	11 5/8	21 5/8	3 3/8	-	Х	_
SwivelTop Wind	2000#	15	11	26	14 1/4	_	Х	_
	5000#	15	11	26	14 1/4	_	Х	_
E Lock Pin Swivel Top Wind	500#	8	6 1/4	14 3/4	6	6 7/8	Х	Х
F Lock Pin Swivel Side Wind	500#	10 1/4	12 3/4	23	9 1/2	6 7/8	Х	Х
	1000#	13 3/4	11 1/4	25 1/4	16 1/2	6 7/8	Х	Х
© Straight Tongue Side Wind Bolt-on Bracket	500#	13 3/4	27 1/2	41	18 1/2	6 7/8	_	Х

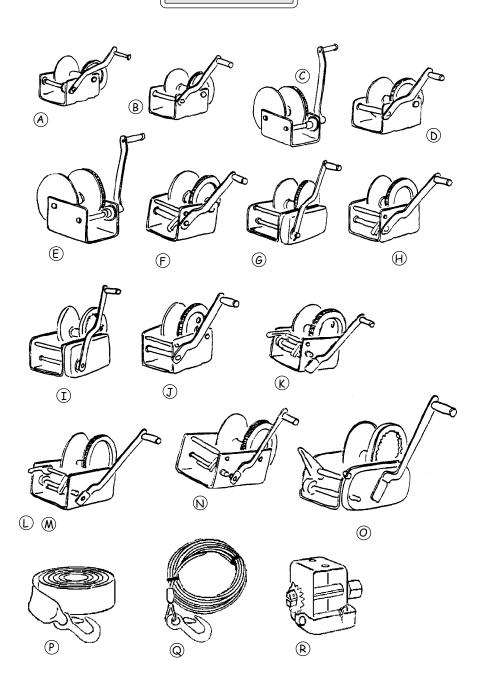
JACKS- 5th WHEEL & STABILIZING TYPE						
#	Description	Lift Travel	Load			
(A)	Side Mount	Travel 12 1/2"	10,000#			
	Avail: Drop Leg w/ Std. Disc Foot	+ drop leg allows				
	Drop Leg w/ Levelling Foot	additional 13 1/2"				
	Fixed Leg w/Std. Disc Foot	adjustment				
	Fixed Leg w/ Levelling Foot					
B	Center Mount	u .	10,000#			
	#1 Center Mount Crank					
(C)	Tandem Mount					
	#2 Tandem Mount Crank	u	20,000#			
<b>D</b>	Stabilizing Jack	11 1/2" fully retracted	650# lift			
	(stores out-of-way) *Not Pictured	17 3/4" fully extended	1000# static cap.			



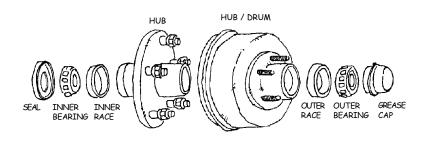
HAND WINCH SPECIFICATIONS— STD. RATCHET TYPE							
	*Load/ Capacity	Gear Ratio	Cable Size & Reel Capacity				
Sto	andard Duty						
A	400	1:1	5/32" x 61'				
B	600	3:2:1	3/16" x 73'				
<b>©</b>	900	3:2:1	3/16" × 45'				
<b>D</b>	1100	3:9:1	3/16" × 83'				
(E)	1300	4:5:1	7/32" x 58'				
Me	dium Duty (2-w	ay ratchet)					
F	1300	4:5:1	7/32" × 58'				
<b>6</b>	1400	4:5:1	1/4" x 42'				
$\Theta$	1600	5:5:1	1/4" × 61'				
I	1600	5:5:1/1:1	1/4" × 61'				
J	1800	5:5:1	9/32" x 58'				
Hed	avy Duty (2-wa	y & 2-speed ope	ration)				
K	1800*	10:5:1	9/32" x 58'				
		5.5:1					
L	2000*	12:5:1	9/32" x 58'				
		5:5:1					
W	2500*	17:1	5/16" x 49'				
		5:5:1					
N	3000	17:1	3/8" x 33'				
		5:5:1					
0	3500	12:1	3/8" × 37'				
w/brake 6:1							
Wir	Winch Accessories						
Winch Strap & Hook							
Q Wir	© Winch Cable & Hook						
R Cab	(R) Cable Clamp						

<sup>\*</sup> Available with hand brake

# HAND WINCHES

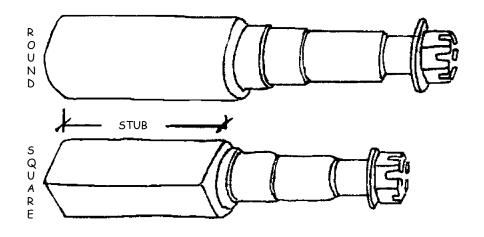


## HIGH SPEED TRAILER HUBS



BT SPINDLE - 2000# AXLES							
Desc.	Bolt Circle	Grease Cap	Inner Bearing	Inner Race	Outer Bearing	Outer Race	Seal
HUB	4 on 4	46749	L44643	L44610	L44643	L44610	46750
n .	ш	II .	L44649	ıı .	L44649	II .	"
ıı .	5 on 4.5	"	L44643	II .	L44643	"	II .
"	ıı .	"	L44649	"	L44649	"	"
#84 SP	INDLE -	3500#	AXLES				
HUB	5 on 4.5	46749	LM68149	L68111	L44649	L44610	58846
H/D	ıı .	"	"	ıı .	"	"	II .
HUB	5 on 4.75	"	ıı .	II .	"	"	II .
H/D	ıı .	II .	ıı .	ıı .	"	II .	II .
HUB	5 on 5	II .	ıı .	u .	"	II .	"
H/D	ıı .	ıı .	u .	ıı .	u .	"	"
HUB	5 on 5.5	II .	u .	ıı .	ıı .	II .	"
H/D	ıı .	II .	u .	u .	u .	II .	=
HUB	6 on 5.5	ıı .	u .	u .	u .	"	"
H/D	II .	"	ıı .	II .	"	II .	"
H/D	4 on 9.4	"	u .	ıı .	"	"	II .
#42 SP	INDLE -	5200, 6	5000, 70	00# A	KLES		
HUB	6 on 5.5	45896	25580	25520	LM67048	LM67010	42385
H/D	II .	11	ıı .	II .	II .	II .	II .
H/D	4 on 9.4	ıı .	ıı .	n .	II .	II .	II .
HUB	8 on 6.5	WE1605	ıı .	ıı .	14125A	14276	II .
H/D	ıı .	"	"	ıı .	II .	"	II .
H/D	5 lug. D.	45896	u .	II .	15123	15245	II .

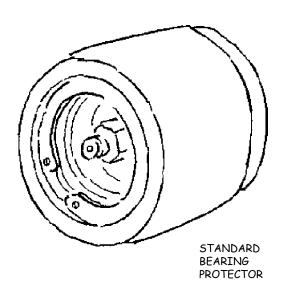
# SPINDLES



ROUND STOCK					
Spindle Type	Capacity Per Pair	Dia. Stock	Stub Length	Total Length	
ВТ	1000#	1 1/4"	4"	8 1/2"	
ВТ	1500#	1 1/4"	4"	8 1/2"	
84	3500#	1 3/4"	4"	9"	
84	3500#	1 3/4"	3"	7"	
42	6000#	2 1/4"	5 1/4"	9 1/2"	
SQUARE STO	CK				
ВТ	1000#	1 1/2"	4"	8 1/2"	
ВТ	2000#	1 1/2"	4"	8 1/2"	
84	2000#	1 1/2"	4"	8 1/2"	
84	3500#	1 3/4"	6"	10 1/2"	
42	5000#	2"	6"	11"	

BEARING PROT	BEARING PROTECTOR SELECTION					
Hub Bore Size (Dec.)	Outer Bearing (Cone)	Outer Bearing Cup (Race) #				
*1.781	LM11949	LM11910				
1.810	LM12749	LM12711				
1.938	09067	09194, 95, 96				
1.968	M12649	M12610				
	07100	07196				
*1.980	L44643, L44649	L44610				
1.980	All Internal Threaded Hi	ubs				
2.047	Various	07204				
2.080	900 Series	900 Series				
2.240	1700 Series	1729				
*2.321	LM67048 (Hub	LM67010				
	not counterbored)					
2.441	LM67048 (Hub counterbored LM67010					
	15123 & others)	15245				
2.562	LM48548	LM48510				

\*Most popular sizes: 1.781 for 1 3/4" hub 1.980 for 2" hub 2.441 for 2 5/16" hub



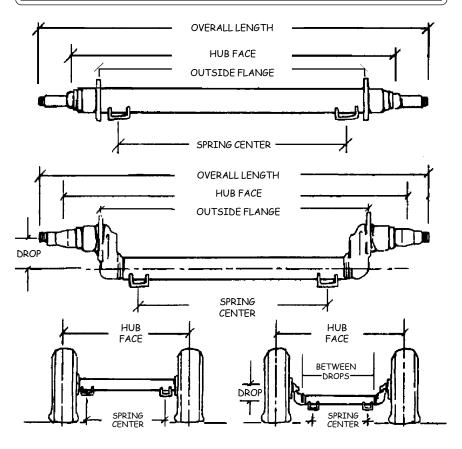
AXLE	AXLE MEASUREMENT CHARTS									
Track	Hub Face	Sprin Straig	•				ing rop /	Center Axle	Overall Length	Outside Flanges
2000#	AXLE				<u> </u>					
52	53	37.75	to	41.25		35	to	38.25	58	46
54	55	39.75	to	43.25		37	to	40.25	60	48
56	57	41.75	to	45.25		39	to	42.25	62	50
58	59	43.75	to	47.25		41	to	44.25	64	52
60	61	45.75	to	49.25		43	to	46.25	66	54
62	63	47.75	to	51.25		45	to	48.25	68	56
64	65	49.75	to	53.25		47	to	50.25	70	58
66	67	51.75	to	55.25		49	to	52.25	72	60
68	69	53.75	to	57.25		51	to	54.25	74	62
70	71	55.75	to	59.25		53	to	56.25	76	64
72	73	57.75	to	61.25		55	to	58.25	78	66
74	75	59.75	to	63.25		57	to	60.25	80	68
76	77	61.75	to	65.25		59	to	62.25	82	70
78	79	63.75	to	67.25		61	to	64.25	84	72
80	81	65.75	to	69.25		63	to	66.25	86	74
82	83	67.75	to	71.25		65	to	68.25	88	76
84	85	69.75	to	73.25		67	to	70.25	90	78
86	87	71.75	to	75.25		69	to	72.25	92	80
88	89	73.75	to	77.25		71	to	74.25	94	82
90	91	75.75	to	79.25		73	to	76.25	96	84
92	93	77.75	to	81.25		75	to	78.25	98	86
94	95	79.75	to	83.25		77	to	80.25	100	88
3500#	AXLE									
60	61	43	to	46		43	to	46	65.75	54.75
62	63	45	to	48		45	to	48	67.75	56.75
64	65	47	to	50		47	to	50	69.75	58.75
66	67	49	to	52		49	to	52	71.75	60.75
68	69	51	to	54		51	to	54	73.75	62.75
70	71	53	to	56		53	to	56	75.75	64.75
72	73	55	to	58		55	to	58	77.75	66.75
74	75	57	to	60		57	to	60	79.75	68.75

Track         Hub Face         Spring Center Straight Axle         Spring Center Drop Axle         Overall Length         Outside Flanges           3500# AXLE cont.         77         59         to 62         59         to 62         81.75         70.75           78         79         61         to 64         61         to 64         83.75         72.75           80         81         63         to 66         63         to 66         85.75         74.75           82         83         65         to 68         65         to 68         87.75         76.75           84         85         67         to 70         67         to 70         89.75         78.75           86         87         69         to 72         69         to 72         91.75         80.75           88         89         71         to 74         71         to 74         93.75         82.75           90         91         73         to 76         73         to 76         95.75         84.75           92         93         75         to 78         75         to 78         97.75         86.75           94         95         77         to 80	AXLE	AXLE MEASUREMENT CHARTS					
76         77         59         to 62         59         to 62         81.75         70.75           78         79         61         to 64         61         to 64         83.75         72.75           80         81         63         to 66         63         to 66         85.75         74.75           82         83         65         to 68         65 to 68         87.75         76.75           84         85         67         to 70         67 to 70         89.75         78.75           86         87         69         to 72         69 to 72         91.75         80.75           88         89         71         to 74         71 to 74         91.70         93.75         82.75           90         91         73         to 76         73 to 76         95.75         84.75           92         93         75 to 78         75 to 78         97.75         86.75           94         95         77 to 80         77 to 80         99.75         88.75           5200# AXLE         60         60         41 to 45         41 to 42.5         65.75         51.25           64         64         45 to 49	Track		•	•			
78         79         61         to 64         61         to 64         83.75         72.75           80         81         63         to 66         63         to 66         85.75         74.75           82         83         65         to 68         65         to 68         87.75         76.75           84         85         67         to 70         67         to 70         89.75         78.75           86         87         69         to 72         69         to 72         91.75         80.75           88         89         71         to 74         71         to 74         93.75         82.75           90         91         73         to 76         73         to 76         95.75         84.75           92         93         75         to 78         75         to 78         97.75         86.75           94         95         77         to 80         77         to 80         99.75         88.75           5200#         AXLE         83         49         to 42.5         65.75         51.25           60         60         41         to 45         41         to 42.5         6	3500#	AXLE con	ıt.				
80 81 63 to 66 63 to 66 85.75 74.75 82 83 65 to 68 65 to 68 87.75 76.75 84 85 67 to 70 67 to 70 89.75 78.75 86 87 69 to 72 69 to 72 91.75 80.75 88 89 71 to 74 71 to 74 93.75 82.75 90 91 73 to 76 73 to 76 95.75 84.75 92 93 75 to 78 75 to 78 97.75 86.75 94 95 77 to 80 77 to 80 99.75 88.75  5200# AXLE  60 60 41 to 45 41 to 42.5 65.75 51.25 62 62 43 to 47 43 to 44.5 67.75 53.25 64 64 64 45 to 49 45 to 46.5 69.75 55.25 66 66 66 47 to 51 47 to 48.5 71.75 57.25 68 68 49 to 53 49 to 50.5 73.75 59.25 70 70 51 to 55 51 to 52.5 75.75 61.25 72 72 53 to 57 53 to 54.5 77.75 63.25 74 74 55 to 59 55 to 56.5 79.75 65.25 76 76 76 57 to 61 57 to 58.5 81.75 72.25 80 80 61 to 65 61 to 62.5 85.75 71.25 81 82 82 63 to 67 63 to 64.5 89.75 75.25 82 82 63 to 67 63 to 64.5 89.75 75.25 83 88 88 69 to 73 69 to 70.5 93.75 79.25 84 84 84 65 to 69 65 to 66.5 89.75 75.25 85 86 86 86 7 to 71 67 to 72.5 95.75 81.25 90 90 71 to 75 71 to 72.5 95.75 81.25	76	77	59	to 62	59 to 62	81.75 70.7	75
82       83       65       to 68       65       to 68       87.75       76.75         84       85       67       to 70       67       to 70       89.75       78.75         86       87       69       to 72       69       to 72       91.75       80.75         88       89       71       to 74       71       to 74       93.75       82.75         90       91       73       to 76       73       to 76       95.75       84.75         92       93       75       to 78       75       to 78       97.75       86.75         94       95       77       to 80       77       to 80       99.75       86.75         94       95       77       to 80       77       to 80       99.75       88.75         5200# AXLE         60       60       41       to 45       41       to 42.5       65.75       51.25         62       62       43       to 47       43       to 44.5       67.75       53.25         64       64       45       to 49       45       to 46.5       69.75       55.25         70       70	78	79	61	to 64	61 to 64	83.75 72.7	75
84       85       67       to 70       67       to 70       89.75       78.75         86       87       69       to 72       69       to 72       91.75       80.75         88       89       71       to 74       71       to 74       93.75       82.75         90       91       73       to 76       73       to 76       95.75       84.75         92       93       75       to 78       75       to 78       97.75       86.75         94       95       77       to 80       77       to 80       99.75       86.75         94       95       77       to 80       77       to 80       99.75       86.75         94       95       77       to 80       77       to 80       99.75       88.75         5200# AXLE         60       60       41       to 45       41       to 42.5       65.75       51.25         62       62       43       to 47       43       to 44.5       67.75       53.25         64       64       45       to 49       45       to 46.5       69.75       55.25         70       70	80	81	63	to 66	63 to 66	85.75 74.7	75
86       87       69       to 72       69       to 72       91.75       80.75         88       89       71       to 74       71       to 74       93.75       82.75         90       91       73       to 76       73       to 76       95.75       84.75         92       93       75       to 78       75       to 78       97.75       86.75         94       95       77       to 80       77       to 80       99.75       86.75         94       95       77       to 80       77       to 80       99.75       88.75         5200# AXLE         60       60       41       to 45       41       to 42.5       65.75       51.25         62       62       43       to 47       43       to 44.5       67.75       53.25         64       64       45       to 49       45       to 46.5       69.75       55.25         66       66       47       to 51       47       to 48.5       71.75       57.25         68       68       49       to 53       49       to 50.5       73.75       59.25         70       70 <td>82</td> <td>83</td> <td>65</td> <td>to 68</td> <td>65 to 68</td> <td>87.75 76.7</td> <td>75</td>	82	83	65	to 68	65 to 68	87.75 76.7	75
88       89       71       to 74       71       to 74       93.75       82.75         90       91       73       to 76       73       to 76       95.75       84.75         92       93       75       to 78       75       to 78       97.75       86.75         94       95       77       to 80       77       to 80       99.75       86.75         94       95       77       to 80       77       to 80       99.75       88.75         5200# AXLE         60       60       41       to 45       41       42.5       65.75       51.25         62       62       43       to 47       43       44.5       67.75       53.25         64       64       45       to 49       45       46.5       69.75       55.25         66       66       67       47       to 51       47       40       48.5       71.75       57.25         68       68       49       to 53       49       to 50.5       73.75       59.25         70       70       51       to 55       51       to 52.5       75.75       61.25         <	84	85	67	to 70	67 to 70	89.75 78.7	75
90 91 73 to 76 73 to 76 95.75 84.75 92 93 75 to 78 75 to 78 97.75 86.75 94 95 77 to 80 77 to 80 99.75 88.75 <b>5200# AXLE</b> 60 60 41 to 45 41 to 42.5 65.75 53.25 64 64 64 45 to 49 45 to 46.5 69.75 55.25 66 66 66 47 to 51 47 to 48.5 71.75 57.25 68 68 49 to 53 49 to 50.5 73.75 63.25 70 70 51 to 55 51 to 52.5 75.75 61.25 72 72 53 to 57 53 to 54.5 77.75 63.25 74 74 55 to 59 55 to 56.5 79.75 65.25 76 76 57 to 61 57 to 58.5 81.75 67.25 80 80 61 to 65 61 to 62.5 85.75 71.25 82 82 63 to 67 63 to 64.5 89.75 72.25 84 84 65 to 69 65 to 66.5 89.75 75.25 86 86 86 67 to 71 67 to 68.5 91.75 77.25 87 90 90 71 to 75 71 to 72.5 95.75 81.25 90 90 71 to 75 71 to 74.5 97.75 83.25	86	87	69	to 72	69 to 72	91.75 80.7	75
92         93         75         to 78         75         to 78         97.75         86.75           94         95         77         to 80         77         to 80         99.75         86.75           94         95         77         to 80         77         to 80         99.75         88.75           5200# AXLE           60         60         41         to 45         41         to 42.5         65.75         51.25           62         62         43         to 47         43         to 44.5         67.75         53.25           64         64         45         to 49         45         to 46.5         69.75         55.25           66         66         47         to 51         47         to 48.5         71.75         57.25           68         68         49         to 53         49         to 50.5         73.75         59.25           70         70         51         to 55         51         to 52.5         75.75         61.25           72         72         53         to 57         53         to 54.5         77.75         63.25           74         74	88	89	71	to 74	71 to 74	93.75 82.7	75
94         95         77         to 80         77 to 80         99.75         86.75           94         95         77 to 80         77 to 80         99.75         88.75           5200# AXLE           60         60         41 to 45         41 to 42.5         65.75         51.25           62         62         43 to 47         43 to 44.5         67.75         53.25           64         64         45 to 49         45 to 46.5         69.75         55.25           66         66         67 to 51         47 to 48.5         71.75         57.25           68         68         49 to 53         49 to 50.5         73.75         59.25           70         70         51 to 55         51 to 52.5         75.75         61.25           72         72         53 to 57         53 to 54.5         77.75         63.25           74         74         55 to 59         55 to 56.5         79.75         65.25           76         76         57 to 61         57 to 58.5         81.75         67.25           80         80         61 to 65         61 to 62.5         85.75         71.25           82         82         63 to 67	90	91	73	to 76	73 to 76	95.75 84.7	75
94         95         77         to 80         77 to 80         99.75         88.75           5200# AXLE           60         60         41         to 45         41 to 42.5         65.75         51.25           62         62         43 to 47         43 to 44.5         67.75         53.25           64         64         45 to 49         45 to 46.5         69.75         55.25           66         66         47 to 51         47 to 48.5         71.75         57.25           68         68         49 to 53         49 to 50.5         73.75         59.25           70         70         51 to 55         51 to 52.5         75.75         61.25           72         72         53 to 57         53 to 54.5         77.75         63.25           74         74         55 to 59         55 to 56.5         79.75         65.25           76         76         57 to 61         57 to 58.5         81.75         67.25           80         80         61 to 65         61 to 62.5         85.75         71.25           82         82         63 to 67         63 to 64.5         87.75         73.25           84         84	92	93	75	to 78	75 to 78	97.75 86.7	75
5200# AXLE           60         60         41         to 45         41         to 42.5         65.75         51.25           62         62         43         to 47         43         to 44.5         67.75         53.25           64         64         45         to 49         45         to 46.5         69.75         55.25           66         66         47         to 51         47         to 48.5         71.75         57.25           68         68         49         to 53         49         to 50.5         73.75         59.25           70         70         51         to 55         51         to 52.5         75.75         61.25           72         72         53         to 57         53         to 54.5         77.75         63.25           74         74         55         to 59         55         to 56.5         79.75         65.25           76         76         57         to 61         57         to 58.5         81.75         67.25           78         78         59         to 63         59         to 60.5         83.75         69.25           80         80         61 <td>94</td> <td>95</td> <td>77</td> <td>to 80</td> <td>77 to 80</td> <td>99.75 86.7</td> <td>75</td>	94	95	77	to 80	77 to 80	99.75 86.7	75
60         60         41         to 45         41         to 42.5         65.75         51.25           62         62         43         to 47         43         to 44.5         67.75         53.25           64         64         45         to 49         45         to 46.5         69.75         55.25           66         66         47         to 51         47         to 48.5         71.75         57.25           68         68         49         to 53         49         to 50.5         73.75         59.25           70         70         51         to 55         51         to 52.5         75.75         61.25           72         72         53         to 57         53         to 54.5         77.75         63.25           74         74         55         to 59         55         to 56.5         79.75         65.25           76         76         57         to 61         57         to 58.5         81.75         67.25           78         78         59         to 63         59         to 60.5         83.75         69.25           80         80         61         to 65         61	94	95	77	to 80	77 to 80	99.75 88.7	75
62       62       43       to 47       43       to 44.5       67.75       53.25         64       64       45       to 49       45       to 46.5       69.75       55.25         66       66       47       to 51       47       to 48.5       71.75       57.25         68       68       49       to 53       49       to 50.5       73.75       59.25         70       70       51       to 55       51       to 52.5       75.75       61.25         72       72       53       to 57       53       to 54.5       77.75       63.25         74       74       55       to 59       55       to 56.5       79.75       65.25         76       76       57       to 61       57       to 58.5       81.75       67.25         78       78       59       to 63       59       to 60.5       83.75       69.25         80       80       61       to 65       61       to 62.5       85.75       71.25         82       82       63       to 67       63       to 64.5       87.75       73.25         84       84       65       to 69	5200#	AXLE					
64       64       45       to 49       45 to 46.5       69.75       55.25         66       66       47 to 51       47 to 48.5       71.75       57.25         68       68       49 to 53       49 to 50.5       73.75       59.25         70       70       51 to 55       51 to 52.5       75.75       61.25         72       72       53 to 57       53 to 54.5       77.75       63.25         74       74       55 to 59       55 to 56.5       79.75       65.25         76       76       57 to 61       57 to 58.5       81.75       67.25         78       78       59 to 63       59 to 60.5       83.75       69.25         80       80       61 to 65       61 to 62.5       85.75       71.25         82       82       63 to 67       63 to 64.5       87.75       73.25         84       84       65 to 69       65 to 66.5       89.75       75.25         88       88       69 to 73       69 to 70.5       93.75       79.25         90       90       71 to 75       71 to 72.5       95.75       81.25         92       92       73 to 77       73 to 74.5       97.	60	60	41	to 45	41 to 42.5	65.75 51.2	!5
66       66       47       to 51       47       to 48.5       71.75       57.25         68       68       49       to 53       49       to 50.5       73.75       59.25         70       70       51       to 55       51       to 52.5       75.75       61.25         72       72       53       to 57       53       to 54.5       77.75       63.25         74       74       55       to 59       55       to 56.5       79.75       65.25         76       76       57       to 61       57       to 58.5       81.75       67.25         78       78       59       to 63       59       to 60.5       83.75       69.25         80       80       61       to 65       61       to 62.5       85.75       71.25         82       82       63       to 67       63       to 64.5       87.75       73.25         84       84       65       to 69       65       to 66.5       89.75       75.25         88       88       69       to 73       69       to 70.5       93.75       79.25         90       90       71       to 75	62	62	43	to 47	43 to 44.5	67.75 53.2	25
68       68       49       to 53       49       to 50.5       73.75       59.25         70       70       51       to 55       51       to 52.5       75.75       61.25         72       72       53       to 57       53       to 54.5       77.75       63.25         74       74       55       to 59       55       to 56.5       79.75       65.25         76       76       57       to 61       57       to 58.5       81.75       67.25         78       78       59       to 63       59       to 60.5       83.75       69.25         80       80       61       to 65       61       to 62.5       85.75       71.25         82       82       63       to 67       63       to 64.5       87.75       73.25         84       84       65       to 69       65       to 66.5       89.75       75.25         88       88       69       to 73       69       to 70.5       93.75       79.25         90       90       71       to 75       71       to 72.5       95.75       81.25         92       92       73       to 77	64	64	45	to 49	45 to 46.5	69.75 55.2	25
70         70         51         to 55         51         to 52.5         75.75         61.25           72         72         53         to 57         53         to 54.5         77.75         63.25           74         74         55         to 59         55         to 56.5         79.75         65.25           76         76         57         to 61         57         to 58.5         81.75         67.25           78         78         59         to 63         59         to 60.5         83.75         69.25           80         80         61         to 65         61         to 62.5         85.75         71.25           82         82         63         to 67         63         to 64.5         87.75         73.25           84         84         65         to 69         65         to 66.5         89.75         75.25           86         86         67         to 71         67         to 68.5         91.75         77.25           88         88         69         to 73         69         to 70.5         93.75         79.25           90         90         71         to 75         71	66	66	47	to 51	47 to 48.5	71.75 57.2	25
72         72         53         to 57         53         to 54.5         77.75         63.25           74         74         55         to 59         55         to 56.5         79.75         65.25           76         76         57         to 61         57         to 58.5         81.75         67.25           78         78         59         to 63         59         to 60.5         83.75         69.25           80         80         61         to 65         61         to 62.5         85.75         71.25           82         82         63         to 67         63         to 64.5         87.75         73.25           84         84         65         to 69         65         to 66.5         89.75         75.25           86         86         67         to 71         67         to 68.5         91.75         77.25           88         88         69         to 73         69         to 70.5         93.75         79.25           90         90         71         to 75         71         to 72.5         95.75         81.25           92         92         73         to 77         73	68	68	49	to 53	49 to 50.5	73.75 59.2	25
74       74       55       to 59       55       to 56.5       79.75       65.25         76       76       57       to 61       57       to 58.5       81.75       67.25         78       78       59       to 63       59       to 60.5       83.75       69.25         80       80       61       to 65       61       to 62.5       85.75       71.25         82       82       63       to 67       63       to 64.5       87.75       73.25         84       84       65       to 69       65       to 66.5       89.75       75.25         86       86       67       to 71       67       to 68.5       91.75       77.25         88       88       69       to 73       69       to 70.5       93.75       79.25         90       90       71       to 75       71       to 72.5       95.75       81.25         92       92       73       to 77       73       to 74.5       97.75       83.25	70	70	51	to 55	51 to 52.5	75.75 61.2	:5
76         76         57         to 61         57 to 58.5         81.75         67.25           78         78         59 to 63         59 to 60.5         83.75         69.25           80         80         61 to 65         61 to 62.5         85.75         71.25           82         82         63 to 67         63 to 64.5         87.75         73.25           84         84         65 to 69         65 to 66.5         89.75         75.25           86         86         67 to 71         67 to 68.5         91.75         77.25           88         88         69 to 73         69 to 70.5         93.75         79.25           90         90         71 to 75         71 to 72.5         95.75         81.25           92         92         73 to 77         73 to 74.5         97.75         83.25	72	72	53	to 57	53 to 54.5	77.75 63.2	25
78       78       59       to 63       59       to 60.5       83.75       69.25         80       80       61       to 65       61       to 62.5       85.75       71.25         82       82       63       to 67       63       to 64.5       87.75       73.25         84       84       65       to 69       65       to 66.5       89.75       75.25         86       86       67       to 71       67       to 68.5       91.75       77.25         88       88       69       to 73       69       to 70.5       93.75       79.25         90       90       71       to 75       71       to 72.5       95.75       81.25         92       92       73       to 77       73       to 74.5       97.75       83.25	74	74	55	to 59	55 to 56.5	79.75 65.2	25
80       80       61       to 65       61       to 62.5       85.75       71.25         82       82       63       to 67       63       to 64.5       87.75       73.25         84       84       65       to 69       65       to 66.5       89.75       75.25         86       86       67       to 71       67       to 68.5       91.75       77.25         88       88       69       to 73       69       to 70.5       93.75       79.25         90       90       71       to 75       71       to 72.5       95.75       81.25         92       92       73       to 77       73       to 74.5       97.75       83.25	76	76	57	to 61	57 to 58.5	81.75 67.2	25
82       82       63       to 67       63       to 64.5       87.75       73.25         84       84       65       to 69       65       to 66.5       89.75       75.25         86       86       67       to 71       67       to 68.5       91.75       77.25         88       88       69       to 73       69       to 70.5       93.75       79.25         90       90       71       to 75       71       to 72.5       95.75       81.25         92       92       73       to 77       73       to 74.5       97.75       83.25	78	78	59	to 63	59 to 60.5	83.75 69.2	25
84       84       65       to 69       65       to 66.5       89.75       75.25         86       86       67       to 71       67       to 68.5       91.75       77.25         88       88       69       to 73       69       to 70.5       93.75       79.25         90       90       71       to 75       71       to 72.5       95.75       81.25         92       92       73       to 77       73       to 74.5       97.75       83.25	80	80	61	to 65	61 to 62.5	85.75 71.2	5
86       86       67       to 71       67 to 68.5       91.75       77.25         88       88       69 to 73       69 to 70.5       93.75       79.25         90       90       71 to 75       71 to 72.5       95.75       81.25         92       92       73 to 77       73 to 74.5       97.75       83.25	82	82	63	to 67	63 to 64.5	87.75 73.2	25
88     88     69     to 73     69     to 70.5     93.75     79.25       90     90     71     to 75     71     to 72.5     95.75     81.25       92     92     73     to 77     73     to 74.5     97.75     83.25	84	84	65	to 69	65 to 66.5	89.75 75.2	25
90 90 71 to 75 71 to 72.5 95.75 81.25 92 92 73 to 77 73 to 74.5 97.75 83.25	86	86	67	to 71	67 to 68.5	91.75 77.2	25
92 92 73 to 77 73 to 74.5 97.75 83.25	88	88	69	to 73	69 to 70.5	93.75 79.2	25
	90	90	71	to 75	71 to 72.5	95.75 81.2	5
	92	92	73	to 77	73 to 74.5	97.75 83.2	25
94 94 75 to 79 75 to 76.5 99.75 85.25	94	94	75	to 79	75 to 76.5	99.75 85.2	25

AXLE	MEAS	JREM	ENT CH	ARTS		
Track	Hub Face		g Center ght Axle	Spring Center Drop Axle	Overall Length	Outside Flanges
6000#	AXLE					
60	61	41	to 46	41 to 43.25	67	52.25
62	63	43	to 48	43 to 45.25	69	54.25
64	65	45	to 50	45 to 47.25	71	56.25
66	67	47	to 52	47 to 49.25	73	58.25
68	69	49	to 54	45 to 51.25	75	60.25
70	71	51	to 56	51 to 53.25	77	62.25
72	73	53	to 58	53 to 55.25	79	64.25
74	75	55	to 60	55 to 57.25	81	66.25
76	77	57	to 62	57 to 59.25	83	68.25
78	79	59	to 64	59 to 61.25	85	70.25
80	81	61	to 66	61 to 63.25	87	72.25
82	83	63	to 68	63 to 62.25	89	74.25
84	85	65	to 70	65 to 67.25	91	76.25
86	87	67	to 72	67 to 69.25	93	78.25
88	89	69	to 74	69 to 71.25	95	80.25
90	91	71	to 76	71 to 73.25	97	82.25
92	93	73	to 78	73 to 75.25	99	84.25
94	95	75	to 80	75 to 77.25	101	86.25

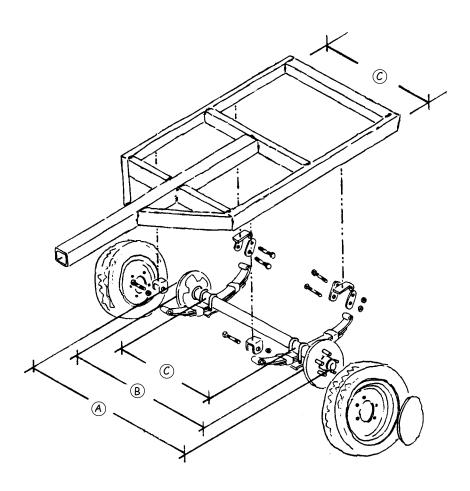
#### Notes:

AXLES "NEW FACTORY"— STRAIGHT & DROP						
Capacity Per Axle	Hub Bolt Pattern	Wheel Sizes	Tube O.D.	Wall		
2000#	5 on 4 1/2	8", 12", 13", & 14"	1.75"	.180"		
3500#	5 on 4 1/2	13", 14", & 15"	2.375"	.180"		
5200#	6 on 5 1/2	15" & 16.5"	3.00"	.180"		
6000#	8 on 6 1/2	16" & 16.5"	3.00"	.250"		
7000#	u .	u u	II .	"		
8000#	ıı .	u u	3.50"	"		
9000#	II .	"	4.50"	"		
10,000#	u u	"	5.00"	"		
12,000#	II .	и	5.00"	.440"		



## TRACK & SPRING CENTERS— AXLE SELECTION DIMENSIONS

- Axle Overall Length—Don't forget to consider tire bulge & fenders.
- (B) Hub Face— Center to center of tires as shown.
- (C) Spring Centers— Attachment point of suspension.



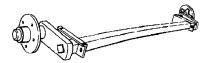
#### RUBBER CUSHIONED AXLES

#### **Features**

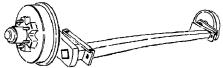
- · Totally rubber cushioned for smooth, quiet, independent ride
- · Easy installation w/less maintenance
- · Less transfer of road shock, insulates cargo from road shocks & vibration
- Rubber cords compounded for maximum dependability & durability
- Load carrying cross member
- · Self-damping action
- Independent wheel suspension system
- · 5-year limited warranty on suspension system
- · Low profile for maximum road clearance
- · Various starting angles to control trailer height
- · High & low profile brackets w/optional mounting brackets available
- · Shock absorbtion provided by the natural hysteresis of rubber
- Single or tandem axle assemblies (triple assemblies not recommended)

#### **Options**

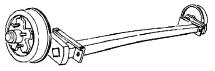
- 1000# through 10,000# capacities
- · Available with no brakes, electric brakes or hydraulic brakes
- · Industry standard hubs and hub-drums
- Custom built to your specifications



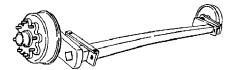
Capacity 1000# - 2200#



Capacity 4000# - 5,200#

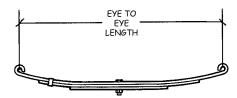


Capacity 2300# - 3500#

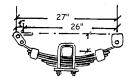


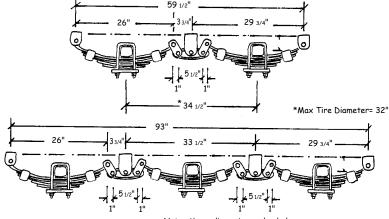
Capacity 5500# - 7000#

TRAILER SPRINGS— DOUBLE EYE "CONVENTIONAL"					
Part #	Capacity per pair (lbs.)	Number of Leafs	Leaf Thickness (in.)	Width (in.)	Eye to Eye Length (in.)
AS2	900	2	.25	1 3/4	26
A53	1350	3	.25	1 3/4	26
AS4	1800	4	.25	1 3/4	26
AWS2	1700	2	.38	1 3/4	26
AWS3	2600	3	.38	1 3/4	26
AWS4	3500	4	.38	1 3/4	26
AWS5	4400	5	.38	1 3/4	26
AWS6	5300	6	.38	1 3/4	26
AWS7	6200	7	.38	1 3/4	26
AWS8	7100	8	.38	1 3/4	26
MR3	5100	3	.50	1 3/4	26
MR4	6900	4	.50	1 3/4	26
72-6	2500	3	.34	1 3/4	23 1/4
72-9	3500	3	.38	1 3/4	23 1/4
72-16	1400	3	.25	1 3/4	20 1/4
72-17	2000	3	.25	1 3/4	20 1/4
72-20	5000	4	.36	1 3/4	23 1/4
72-24	4000	3	.41	1 3/4	25 1/4
72-25	5000	4	.41	1 3/4	25 1/4
72-26	6000	4	.41	1 3/4	25 1/4
72-27	7000	6	.38	1 3/4	25 1/4
72-73	6000	5	.38	1 3/4	25 1/4



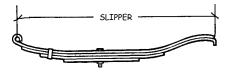


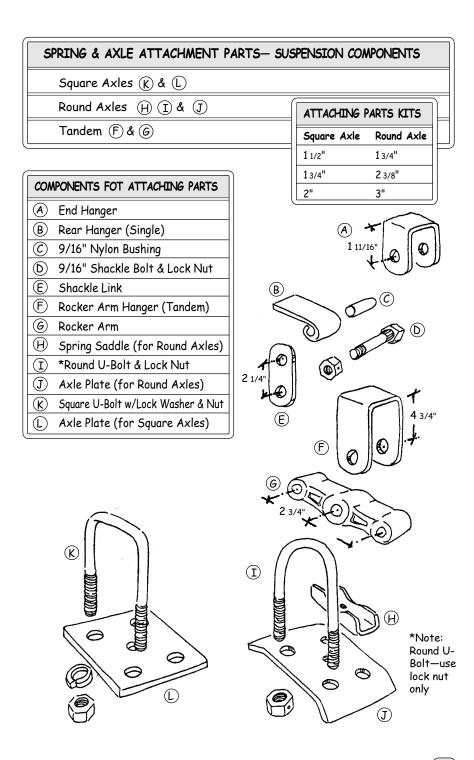




Note: Above dimensions unloaded

SLIPPER SPRINGS					
Part #	Capacity per pair (lbs.)	Number of Leafs	Leaf Thickness (in.)	Width (in.)	Slipper Length (in.)
BT25-9	900	3	.26	1 3/4	25
BT25-30	3000	4	.36	1 3/4	25
72-7	10000	5	.38	3	29
72-10-2	9000	6	.40	2	30
72-21	10000	5	.44	2 1/2	30
72-30	4000	4	.34	2	25
72-31	5000	4	.38	2	25
72-32	7000	5	.34	2	25
72-43-1	10000	5	.38	3	29
72-44-1	12000	6	.35	3	30
72-51-1	8000	7	.38	2	25





#### ELECTRIC BRAKE SERVICE PARTS

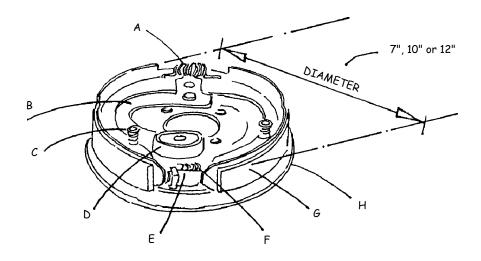
#### How to Select

Step #1— Determine diameter. 7", 10" or 12"

Step #2— Determine manufacturer of your brake by looking for key points:

- A. Check backing plate for name
- B. Identify magnet shape
- C. Hold down spring— coil or leaf?
- D. Shoe return spring— one or two?

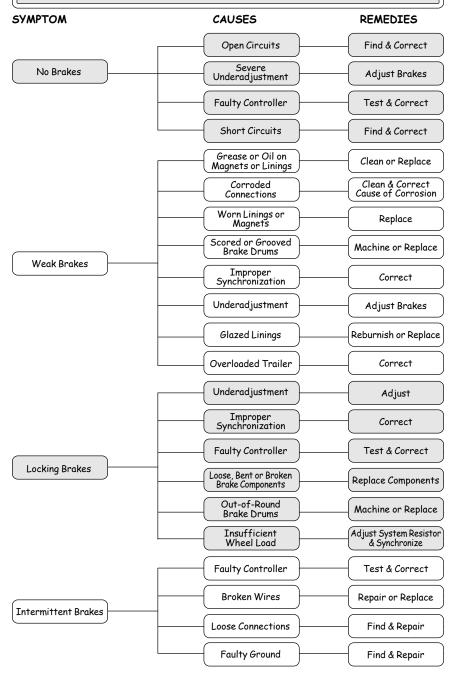
Step #3— Select the part you need by referring to your supplier's brake parts manual - "photo selection guide" - major manufacturers.



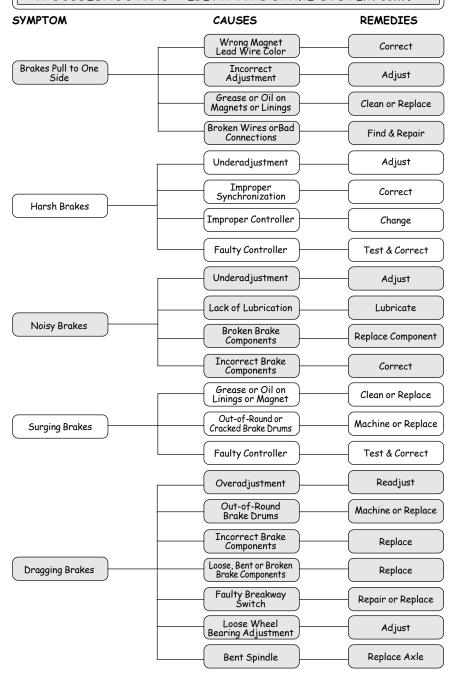
- A. Shoe Return Spring
- B. Lever Arm
- C Hold Down Spring
- D. Magnet

- E. Adjuster
- F. Adjuster Spring
- G. Shoe & Lining
- H. Backing Plate

## TROUBLESHOOTING- ELECTRICAL BRAKE SYSTEM



## TROUBLESHOOTING- ELECTRICAL BRAKE SYSTEM cont.



#### HYDRAULIC BRAKE SERVICE PARTS

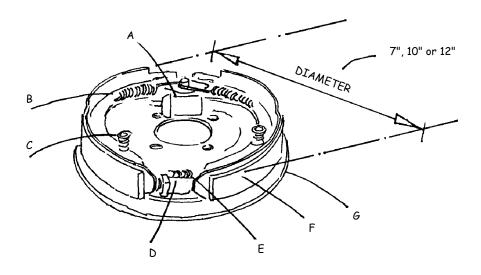
#### How to Select

Step #1— Determine diameter. 7", 10" or 12"

Step #2— Determine manufacturer of your brake by looking for key points:

- A. Check backing plate for name
- B. Identify general shape

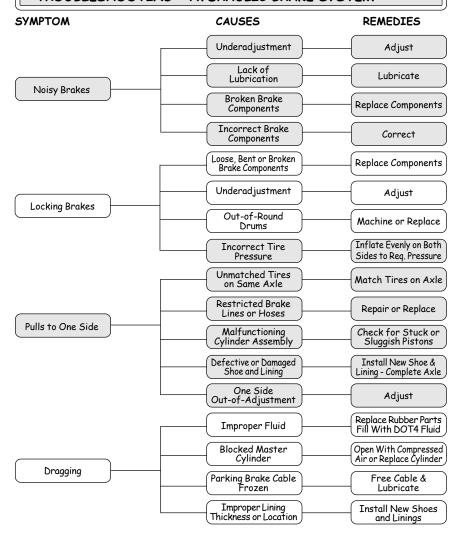
Step #3— Select the part you need by referring to your supplier's brake parts manual - "photo selection guide" - major manufacturers. All kits left or right side brakes unless otherwise specified.



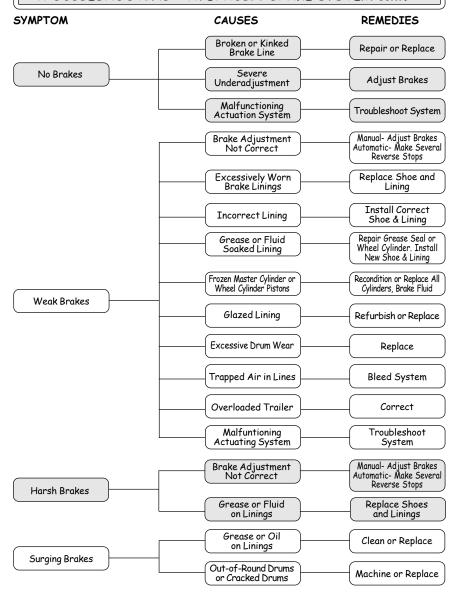
- A. Hydraulic Cylinder
- B. Shoe Return Spring
  C Hold Down Spring
- C Hold Down Spring
- D. Adjuster

- E. Adjuster Spring
- F. Shoe & Lining
- G. Backing Plate

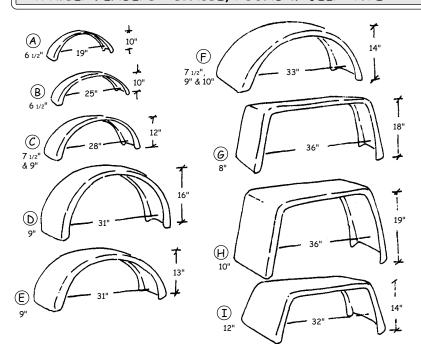
## TROUBLESHOOTING- HYDRAULIC BRAKE SYSTEM



## TROUBLESHOOTING- HYDRAULIC BRAKE SYSTEM cont.



## TRAILER FENDERS- SINGLE, ROUND & "JEEP" TYPE

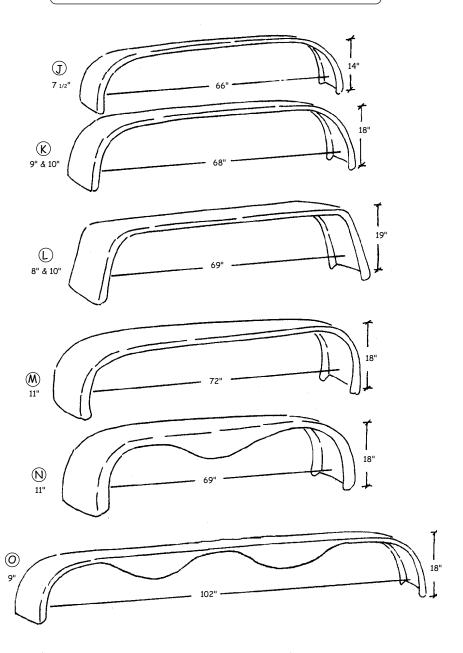


## SPECIFICATIONS & DIMENSIONS

Style	Wheel	Dimensions		
#	Size	Width	Length	Height
A	8"	6 1/2"	19"	10"
B	12"	ıı .	25"	10"
<b>(C)</b>	13"	7 1/2"	28"	12"
	u .	9"	ıı .	"
<b>D</b>	14"	9"	31"	16"
(E)	"	9"	31"	13"
	"	10"	"	"
F	15"	7 1/2"	33"	14"
	"	9"	ıı .	"
	"	10"	"	"
G	"	8"	36"	18"

Style	Wheel	Dimensions		
# '	Size	Width	Length	Height
$\overline{\Theta}$	15"	10"	36"	19"
I	14"	12"	32"	14"
J	15"	7 1/2"	66"	16"
K	u	9"	68"	18"
	"	10"	"	"
L	=	8"	69"	19"
	"	10"	ıı .	"
M	16"	11"	72"	18"
(N)	15"	11"	69"	18"
0	"	9"	102"	18"

# TRAILER FENDERS — TANDEM & TRIPLE — ROUND & "JEEP" TYPE



#### UNDER 80" LIGHTING REQUIREMENTS # Location Qty. Description (A)2 Class A Stop Signal On rear each side of center at same level, as far 2 Turn Signal apart as practical but no 2 Trail Lamps closer than 24" O/C. 2 Reflex Reflectors 1 License Plate Lamp (B) 2 Red Class A Reflectors One each side, as far rear as practical 2 Red Side Markers (C) 2 Amber Class A Reflectors One each side, as far front 2 Amber Side Marker as practical

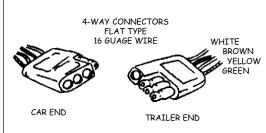
## \*OVER 80" LIGHTING REQUIREMENTS

#	Qty.	Description	Location
<b>(D)</b>	*2	Red Clearance Lights	Amber front/Red rear,
E	*2	Amber Clearance Lights	each side extreme width
F	3	Identification Lamps or	One center light w/one
		Light Bar	each (R) & (L) centers 6"
			min 12" max.

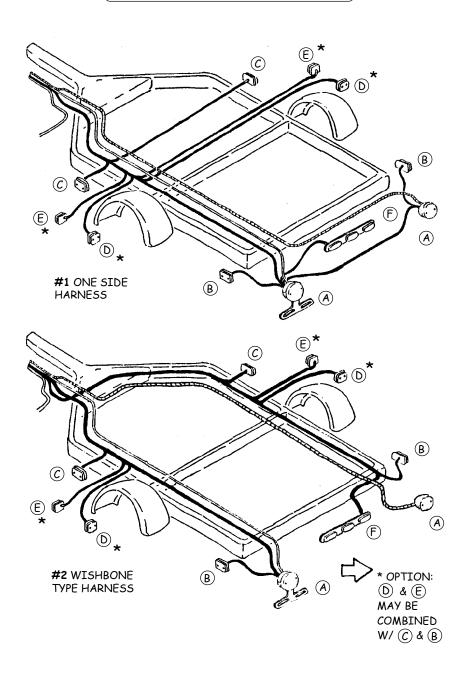
Note: Where practical, combination fixture may incoporate 2 or more of these functions together, ie. combination fixture 7 functions stop, tail, turn, license, side marker, side & rear reflector lamp. Exception: clearance lamps may not be combined w/tail or I.D. lamps.

<sup>\*</sup>Clearance & marker light option/combination— turn  $\bigcirc$  &  $\bigcirc$  at 45° angle & eliminate  $\bigcirc$  &  $\bigcirc$ 

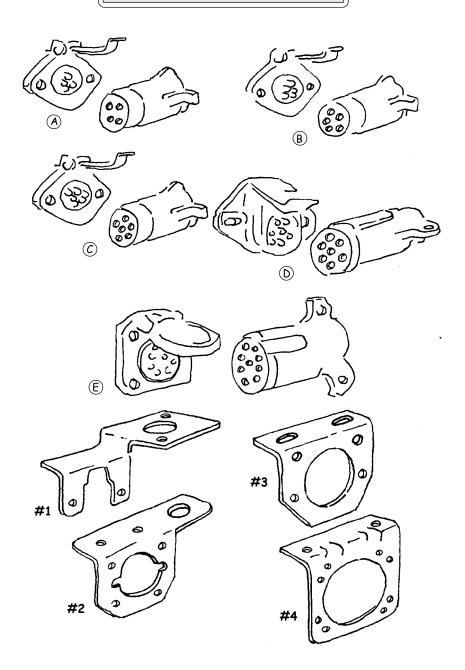
COLOR CODE FOR WIRE		
White	Ground	
Brown	Tail, License, Side	
	Marker, Clearance	
	& Identification Lamps	
Yellow	Left Turn & Stop	
Green	Right Turn & Stop	

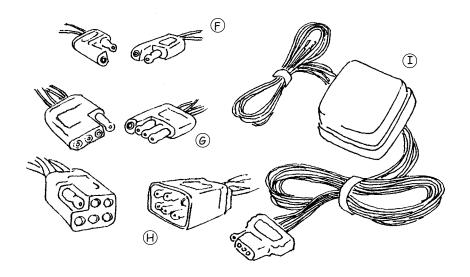


## TRAILER LIGHTING DIAGRAM



## TRAILER WIRE CONNECTORS





### TRAILER WIRE CONNECTORS

## Heavy Duty Connectors

- (A) 4-Way— for Trailers w/o Brakes
- (B) 5-Way— When Extra Circuit Required
- © 6-Way— for Trailers w/Electric Brakes
- (b) 7-Way— Used on Semi, R.V. & Utility Trailers
- (E) 9-Way— Used on Trucks

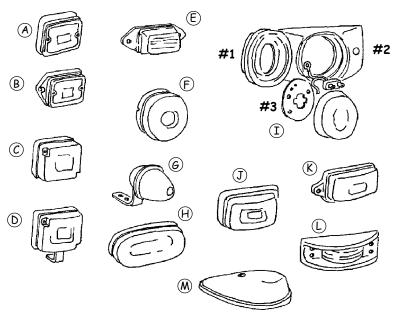
### Connector Brackets

- #1 Use w/4- & 5-Way (A) & (B)
- #2 Use w/6- & 5-Way ©
- #3 Use w/7- & 5-Way (b)
- #4 Use w/9- & 5-Way (E)

#### Molded Connectors/Converters

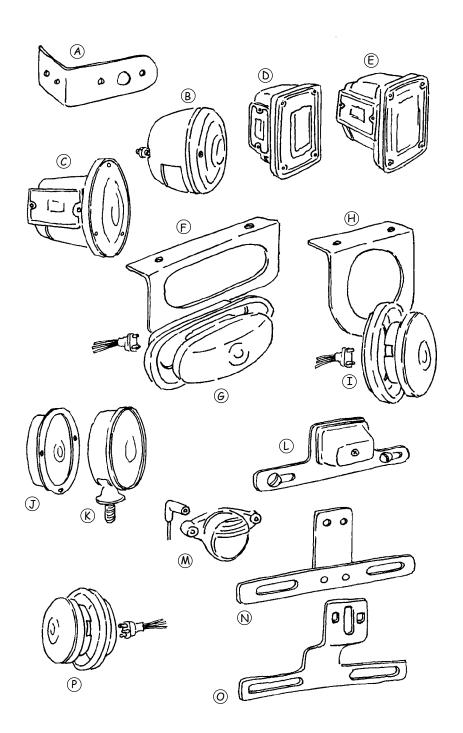
- (F) 2 Pole—for C.B.S.
- 6 4 Pole— Used on Most Boat Trailers
- H 6 Pole— 6-Way
- Tail Lamp Converter from 3 Wire to 2

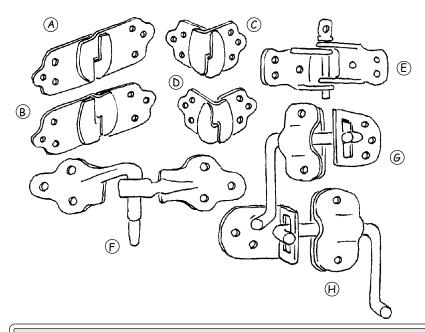
TRAILER WIRE COLOR CODE					
Color	Circuits	Recommended Wire Gauge			
Univers	Universal 4 Pole Connectors				
White	Ground Return	16 <i>G</i> a			
Green	Right Turn & Brake Lights	16 <i>G</i> a			
Yellow/Red	Left Turn & Brake Lights	16 <i>G</i> a			
Brown	Tail Lights	16 Ga			
Univers	al 6 Pole Connectors				
White	Ground Return	12 Ga			
Brown	Tail Lights	16 <i>G</i> a			
Yellow	Left Turn	16 Ga			
Red	Stop	16 <i>G</i> a			
Green	Right Turn	16 <i>G</i> a			
Blue	Auxiliary Circuit, Brakes	12 <i>G</i> a			
Recreat	ion Vehicle 7 Pole Connectors	-			
White	Ground Return	10 Ga			
Blue	Electric Brake	12 Ga			
Green	Tail, License, & Running Lights	14 <i>G</i> a			
Black	Battery Charge	10 <i>G</i> a			
Red	Stop & Left Turn Signal	14 <i>G</i> a			
Brown	Stop & Right Turn Signal	14 <i>G</i> a			
Yellow	Auxiliary Circuit	14 Ga			
White	Ground Return	10 <i>G</i> a			
Heavy Duty 7 Pole Connectors					
Black	Clearance, Side Marker, & ID Lamps	12 Ga			
Yellow	Left Turn & Hazard Signal	12 <i>G</i> a			
Red	Stop Lamps & Anti-Lock Devices	12 <i>G</i> a			
Green	Right Turn & Hazard Signal	12 <i>G</i> a			
Brown	Tail, Rear Clearance Marker, & License Plate Lamps	12 <i>G</i> a			
Blue	Auxiliary Circuit	12 Ga			



MA	ARKER, CLEARANCE & CAB LIGHTS
A	Stud Mount Marker Light, Red & Amber
B	Ear Mount Marker Light, Red & Amber
<b>©</b>	Stud Mount Clearance/Marker Light
<b>(D)</b>	Ear Mount Clearance/Marker Light
(E)	"Mini" Clearance/Marker
F	Surface Mount Marker/Clearance
<b>6</b>	Beehive Type Clearance
$\Theta$	Oval Clearance, One or Two Light
I	Factory Sealed Round Clearance/Marker
	#1. Rubber Grommet Mount
	#2. Surface Mount Branch Deflector
	#3 Surface Mount Cam Lock
J	Stud Mount Submersible Clearance
K	Ear Mount Submersible Clearance
L	Armored Marker
(M)	Cab Marker Lamp

## LIGHTS/BRACKETS— REAR Description (A)Stud Mount Light Bracket, Left & Right Class "A" Conventional Round Combination Stop, Tail & Turn (B) w or w/o License Window 1. 2 Stud Mount, Plastic, 2 Screw Lens 2. Snap On Lens 3. Universal Mount, Plastic, 2 Screw Lens 4. 2 Stud Mount, Steel, 3 Screw Lens Class "A" Round, 7-Way Combination Stop, Tail, Turn, (C)\* License Window & Side Marker (D)\* Class "A" Square "Submersible" 7-Way (E)\* Conventional 7-Way (F) Oval Light Steel Mounting Bracket Oval Factory Sealed Beam (Disposable) Stop, Tail (G) & Turn w/Rubber Grommet (H)Round Light Steel Mounting Bracket (I)Round Factory Sealed Beam (Disposable) Stop, Tail & Turn w/Rubber Grommet $\bigcirc$ Recessed Mount - Stop, Turn & Tail. Available: Steel, Stainless Steel, Rubber, Plastic Pedestal Mount - Stop, Turn & Tail. Available: Single & Double Face (K)(L) License Light w/License Bracket (M) License Light (N) Conventional License Bracket 0 Universal Mount License Bracket (P) Round, Back-up (Clear) Factory Sealed Beam (Disposable) \*Available: Kit Form— Includes 1 Each: 7-Way, 6-Way, License Plate Bracket, Amber Front Side Marker Lights, Trailer Harness, Trunk Connector, Metal Clips, Wire taps & Wire Nuts.





#### STAKE RACK CONNECTIONS

- A Left Hand Pair, Stake Rack Connectors, Straight Side Type  $_{3/16}$ " x 2  $_{1/2}$ " 7" O.A.L. (A) & (B) illustrates one set of 4 plus 1 left hand pair and one right hand pair
- B Right Hand Pair (see above)
- C Left Hand Pair Corner Gate Connections 3 5/8" O.A.L. to inside of angle 3/16" x 2 1/2" C & D illustrates one set of 4 plus 1 left hand pair and one right hand pair
- (D) Right Hand Pair (see above)
- © Stake Rack Hinges— formed 3/16" x inside width, 1 9/16" pin to outside holes 2 3/4" w/ 3/8" diameter pin
- (F) Heavy Duty Stake Rack Connections, Cast Hook & Eye 2 1/2" width x 10 3/4" O.A.L. w/9/16" dia. hook x 3"

  Available: Eye Plate & Hook, Left Handed or Right Handed
- ⑤ Security Stake Racke Connection, "No Lefts & No Rights" 1/4"  $\times$  2 1/2" w/1/2" dia. pin 2 units make a set
- (H) Similar to Above

#### \*WHEELS & TIRES- LIGHT TO MEDIUM DUTY FOR TRAILER USE, UTILITY, BOAT & TRAVEL TRAILER Bolt Ply Wheel Wheel Tire Wt. Tire Tire Tire Maximum Pattern Ratina Rim Width Load Capacity Size Size Cap. Max. Load Width Per Dia Inches 65 M.P.H. Wheel Press Ranae P.S.I. Lbs. 8 x 3 3/4 4 on 4 4.80/4.00-8 4 (B) 3 3/4 590 16.3 4.9 60 590 $8 \times 3 \frac{3}{4}$ 5 on 4 1/2 4.80/4.00-8 4 (B) 3 3/4 590 16.3 49 60 590 5 on 4 1/2 | 5.70/5.00-8 4 (B) 590 18.4 5.7 50 715 8 x 3 3/4 3 3/4 12 x 4 5 on 4 1/2 4.80/4.00-12 4 (B) 4 780 20.5 4.8 60 780 12 x 4 5 on 4 1/2 5.30/4.50-12 4 (B) 4 1125 21.2 5.5 55 840 13 x 4 1/2 5 on 4 1/2 6.00/13 ST 32 4 (B) 4 1/2 1060 25.2 6.7 1050 13 x 4 1/2 5 on 4 1/2 6.50/13 ST 6 (C) 4 1/2 1060 25.2 6.7 60 1340 13 x 4 1/2 5 on 4 1/2 6.00/13 ST 4 (B) 5 1/2 1060 25.2 6.7 32 1050 14 x 5 5 on 4 1/2 7.35/14 ST 4 (B) 1250 26.3 7.0 32 1240 14 x 5 5 on 4 1/2 7.75/14 ST(B) 4 (B) 5 1250 27.3 8.0 32 1360 14 x 5 1/2 5 on 4 1/2 7.75/14 ST 6 (C) 5 1/2 1560 26.3 7.0 55 1630 $15 \times 5$ 5 on 4 1/2 7.35/15 ST 4 (B) 5 1350 27.3 7.4 32 1260 $15 \times 5$ 5 on 4 1/2 7.75/14 ST(B) 4 (B) 5 1350 284 76 32 1350 15 x 5 1/2 6 on 5 1/2 7.75/14 ST(C) 5 1/2 1530 28.4 7.6 55 1635 6 (C) 15 x 5 1/2 6 on 5 1/2 7.75/14 ST(C) 6 (C) 6 1530 28.4 7.6 55 1635 $15 \times 5 \frac{1}{2} = 5 \text{ on } 4 \frac{1}{2} = 7.75/14 \text{ ST(C)} = 6 (C)$ 5 1/2 1750 28.4 7.6 55 1635

\*For general reference only. Consult manufacturer's

specifications.

Estimate load to be carried by tire & speed. Radial ply tires should not be mixed with bias tires on same vehicle.



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