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Welcome!

Welcome to our 2024 catalog showing the full line of Amish and Mennonite carriage parts manufactured at our facility in Birdin-Hand, Pennsylvania. While many of our products remain the same, you will notice some changes and additions as we strive to serve you better.

We would like to take time to thank first and foremost, our Heavenly Father for the blessings He bestows upon us every day! Secondly, we thank you, our valued customers for continued support as we continue to strive for excellence in every aspect of business: innovation, quality & service! We sincerely appreciate the valuable feedback you provide, as it helps us improve our products.

Our goal while assembling this catalog was to make it easier for you to place orders, so we hope you find that simplicity as you browse through these pages. Please call us if you have any questions about our products.

About Us

A family owned and operated business since 1979, nestled in the heart of Lancaster County, Carriage Machine Shop manufactures quality carriages and parts, while offering friendly customer service.

Where to Find Us

Carriage Machine Shop, LLC 250 Maple Ave. Bird-in-Hand, PA 17505 **717-397-4079 717-397-4085 (fax)**

Terms & Conditions

RETURNS:

No returns will be accepted unless authorized by a representative of CMS LLC. Merchandise will be credited when it is in our warehouse. Return shipping costs must be prepaid. A 25% restocking fee applies to all returned or refused merchandise. No returns will be accepted after 30 days unless upon agreement. Items to be returned must be in original condition.

SHIPPING DAMAGES:

Shipping damages must be reported within 24 hours of delivery. Please keep your item and all packing materials for possible inspection. If the item returned under this clause is found to be perfect and in full working order, it will be returned to you and an administration fee of 15% of the purchase price plus the shipping cost back to you will be charged.

12 MONTH LIMITED WARRANTY:

Parts from CMS LLC are warranted for a period of 12 months from the date of manufacture, subject to the terms & conditions as follows:

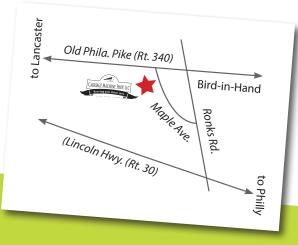
- CMS LLC will repair or replace any part which is defective or becomes faulty within a period of 12 months from purchase, provided it is returned to us, shipping paid, and that the part has only been used in the normal and correct way. We reserve the right to change/improve specifications from time to time without notice. Any repairs or modifications performed by anyone other than CMS LLC automatically voids this warranty.
- Labor: The owner may at his option and with CMS LLC approval, have the defective part shipped to the shop for repair. All labor and material costs for repair at the shop will be borne by CMS LLC, but the owner assumes all shipping costs. **Should the owner choose a source other than CMS LLC to repair the part, this warranty will be voided and CMS LLC no longer assumes responsibility for the part.**
- · Warranty applies to original owner only.
- Steel wheels have a 6-Year Pro-Rated Limited Warranty. See page 9 for details.

TERMS:

Wholesale accounts get 1% discount when paid in 10 days, net 30. Retail customers payment is due upon receipt.

NOTICE:

Carriage Machine Shop will not be liable or responsible for any type of accident that may arise from any of our products. Use all of our products at your own risk.

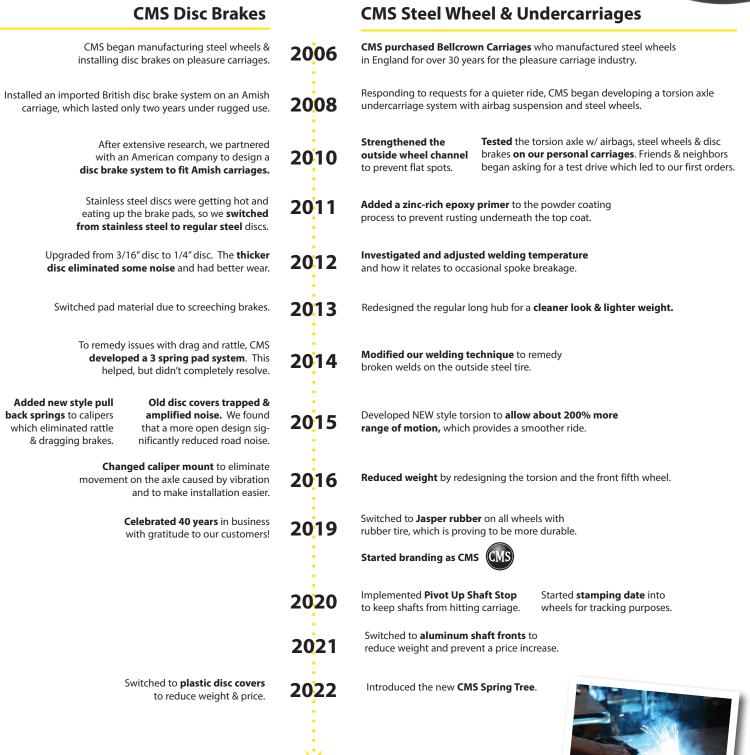




Improving Since 1979.

Carriage Machine Shop opened its doors in 1979 to begin manufacturing 2-wheeled carts for the pleasure driving market. As that market began to diminish around 2006, we shifted our focus to increase Amish and Mennonite buggy parts manufacturing. Since that time, we have spent considerable energy in developing and refining the steel wheel, undercarriages, and disc brakes. Enjoy a quiet drive through the history of CMS product improvements...







(pictured) Gear w/ rubber torsion axle • 5200-AB Airbag Suspension • 5532 Disc brakes w/ 5100-P covers • 5300 Pivot-up steel shafts • 5502-RFR 36" x 40" steel wheels w/ rubber & flat steel rim • 409 lbs.



5200-AB

Medium airbags in front & rear, choice of spindles. Most popular setup for most any size carriage or small surrey. *Specify box length & width*.

5200-RS Rubber shocks instead of airbags



5201-AB

Medium airbags in front & rear, choice of spindles. Rear airbags are set up wider for spring wagons, surreys, or pick-ups. *Specify hub centers* for length and rear airbag centers.

5201-RS Rubber shocks instead of airbags

NOW STANDARD Pivot-up Shaft Stop Now you can fold up your shafts without worrying that it will

rub against your carriage top.

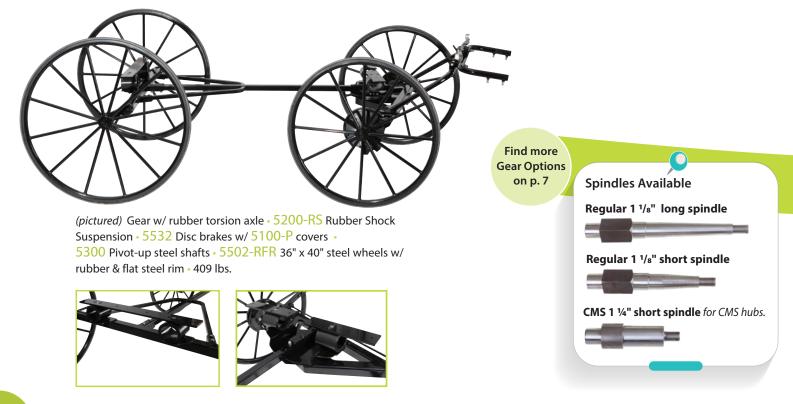




5204-AB

Set-up for market wagons, spring wagons, or surreys. Spring in front, medium airbags in rear, choice of spindles. *Specify center of front spring to center of rear axle, and rear airbag centers.*

5204-RS Rubber shocks instead of airbags



Torsion Gear w/ Spring





AVAILABLE TO SHIP ON A 3' X 6' SKID

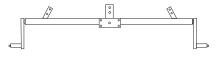




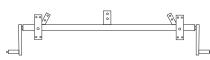
(pictured) Gear w/ rubber torsion axle • 5205 Spring attachment • 5532 Disc brakes w/ 5100-P covers • 5300 Pivot up steel shafts • 5502-RFR 36" x 40" Steel wheels w/ rubber & flat steel rim • Weight 465 lbs (weight includes springs)

Set-ups:

5205 Set-up for single or double carriage with springs (front & rear). Rear spring mounts behind the axle to shorten wheel base. Wooden block not needed to mount springs. *Specify spring centers*.



5206 Set-up for single or double carriage with springs (front & rear). Rear spring mounts on top of axle. Wooden block not needed for rear axle. *Specify spring centers*.



5207 Set-up for side springs on pickups, spring wagons, or surreys. Specify center of front spring to center of rear axle, and rear spring centers.



5208 Set-up for double half elliptic springs on market wagons. *Specify center of front spring to center of rear axle.*

NOW STANDARD Pivot-up Shaft Stop Now you can fold up your shafts without worrying that it will rub against your carriage top.



Custom Cart Axle w/Torsion 5214 Choose spindles, mounting brackets & axle length. *Specify cart*

body width, wheel track width, and what type of attachment to mount body.

*NOTE: Spring Gears are made to fit 1 ½" springs. Springs are NOT included.





(pictured) 5210 CMS Straight Axle (does not have torsion axle) • 5532 Disc Brakes w/ 5100-P covers • 5300 Pivot-up steel shafts • 5502-RFR 36" x 40" steel wheels w/ rubber & flat steel rim • Weight 421.5 lbs

Not interested in torsion axle? ...but still want the benefits of CMS 1 ¹/₄" hub system, pivot-up shafts, disc brakes, and steel wheels? This gear is for you!

Set-ups:

5210 Straight Axle Gear Set-up for single carriage with springs. *Specify spring centers*.

5211 Straight Axle Gear w/ side springs in rear Set-up for side springs on pickups, spring wagons, or surreys. Specify center of front spring to center of rear axle, as well as rear spring centers.



5212-AB Straight Axle Gear w/ Airbags in rear Set-up for market wagons, pickups, spring wagons, or surreys. Specify center of front spring to center of rear axle, as well as rear airbag centers.

> Rubber Shock... 5212-RS



NOW STANDARD Pivot-up Shaft Stop Now you can fold up your shafts without worrying that it will rub against your carriage top.

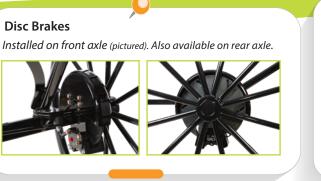


without worrying that it will rub against your carriage top.

Comparing Weight to a Traditional Gear

T	TRADITIONAL	CMS UNDERCARRIAGE	
suspension & axles	1″ straight axles w/ EZ Ride Springs	CMS Straight Axle • Larger bearings allow easier w/ 1 ¹ / ₄ " axle stubs & rolling & last longer leaf spring attachment • Eliminates need for axle clips	
wheels	Wooden w/ channel rubber & flat steel	Steel w/ rubber• Low maintenance & durable& flat steel• Avoid annual re-hooping	
brakes	7″ drum	Disc w/ covers • Uniform pad movement prevents wheels from sliding	
shafts	Fiberglass	• Eliminates downward pressure on horse's back (Testing has shown a 75% reduction) • Rust-free stainless shaft fronts	
TOTAL WEIGHT	405 LBS.*	421.5 LBS.*	

*Weights INCLUDE EZ RIde Springs w/ mounting brackets, etc.



Fifth Wheel Spring Mount Wooden block NOT needed to mount spring



Rear Axle Spring Mount

Wooden block is NOT needed to mount spring.



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Find more Gear Options on p. 7

Gear Options At-A-Glance 💮 😿 😥

 estandard optional NA = not available 	Torsion w/ Air Bag	Torsion w/ Spring	Straight Axle w/ Spring
Rubber torsion axle	•	٠	NA
Straight back torsion	0	٠	NA
Regular angle torsion	٠	0	NA
Steel perch	٠	٠	٠
Air bags or rubber shocks (front & rear)	٠	NA	NA
Air bags or rubber shocks (rear, spring in front) NA	0	0
Heavy duty fifth wheel w/ nylon wafer	٠	٠	٠
Steel wheels	0	0	٠
CMS 1 ¼" spindles (only fits the CMS 1 ¼" hub & disc brakes)	0	0	•
1 ¹ /8" long spindles	0	0	NA
1 ¹ /8" short spindles	0	0	NA
CMS disc brakes	0	0	٠
Disc covers	0	0	٠
Hydraulic drum brakes (only available on 1 1/s" long or short spindles)	0	0	NA
Pivot up shafts	0	0	٠
Tabs for regular shafts	0	0	NA
Pivot up shaft stop	٠	٠	٠
Custom shaft attachments	0	0	NA
Attachment for side springs	NA	0	0
Attachment for double half elliptic springs	NA	0	NA
Made to fit any carriage top (Call us with spec	cs) 🔴	٠	٠
Durable powder coating	٠	•	٠
5th Wheel Stop	0	0	0

Write your order notes here so when you re-order, it's easy!

Installation Tips:

Airbag Gear

- **Recommended air pressure** will vary due to weight and style of carriage top being used. 15 to 20 PSI is recommended for Lancaster County.
- When installing a **#5200 gear**, you will want to **hook up the airbags side to side**, meaning left rear and left front airbag to one gauge, then the same for the right side.
- Very important! Anytime you install airbags, be sure to cut the ends of the tubing straight. If they are not cut straight, they will leak!
- Use Loctite Thread Sealant 545 (CMS part# 5451) on all air fitting threads.
- Check all wheel bearings installed by CMS for tightness to your specs. We tighten them at the shop, but as you know, wheel bearings can loosen once broken in.

Spring Gear

- When installing a #5205 gear or any of our gears with spring, you will need to supply your own springs, spring blocks, clip bars, bolts, and hangers.
- Check all wheel bearings installed by CMS for tightness to your specs. We tighten them at the shop, but as you know, wheel bearings can loosen once broken in.

Disc Brakes

- Use Loctite Thread Locker 263 (CMS part# 5450) on all disc brake bolts, especially on the disc and #5342 Caliper Braket. Use sparingly!
- **Do NOT overtighten bolts** when installing Disc Brakes. You will only stress the bolt and cause premature failure.
- CMS Disc Brakes work best when used with a Master Cylinder without a check valve. CMS #5559 already has the check valve removed. When using a master cylinder from a vendor other than CMS, please remove the check valve.



Rigorous powder coat process for maximum coating adhesion. ✓ Please specify size when ordering.



PARTNER KEYSTONE KOATING KEEPS YOUR WHEELS PROTECTED

Every Carriage Machine wheel receives the same process at Keystone Koating.

They first blast the wheels using steel grit to ensure the metal is cleaned and ready for coating. The workhorse of protection is a zinc-rich epoxy primer coating applied to the wheel, creating a barrier from rust and other corrosive materials. This has been proven to greatly extend the life by up to 4 times!

Finally, a top coat of polyester powder coating is applied giving your wheels a beautiful highgloss finish with approximately 6-8 mils of protection from the harsh elements.

Other services offered by Keystone Koating:

- Blasting
- Masking of parts to protect certain areas from powder
- Quality control personnel
- Value added services (i.e. packaging, minor assembly, etc)
- Delivery

CMS Channel **Profile Rubber** Rubber fits CMS steel

 Environmentally responsible option vs. wet paint



Steel Wheel – Long Hub fits PA 1" or 1 1/8" long spindle axle Weight				
5500-NONE	No Rubber or Steel	29 lbs		
5500-ROH	1 ¼ Half Round Jasper Rubber	34 lbs		
5500-ROF-J	1 ¼ Flat Top Jasper Rubber	34 lbs		
5500-ROF-T	1 ¼ Flat Top TBP Rubber	34 lbs		
5500-RFR	1 $^{1}\!$	51 ½ lbs		
5500-RFR-LP	Low Profile TBP Rubber and 3/8 x 1 3/8" Flat Steel Rim	51 ½ lbs		
5500-RHR	1 ¼ Flat Top TBP Rubber and 1 1/8" Half Round Steel Rim	51 ½ lbs		
5500-RHR-LP	Low Profile TBP Rubber and 1/8" Half Round Steel Rim	51 ½ lbs		







1 ¼" Round Top 5190



1 ¼" Low Profile Flat Top 5191



Graber & Canadian custom hubs available upon request.



Steel Wheel – Flush Hub fits PA 1" or 1 1/8" short spindle axle Weight				
5501-NONE	No Rubber or Steel	29 lbs		
5501-ROH	1 ¼ Half Round Jasper Rubber	34 lbs		
5501-ROF-J	1 ¼ Flat Top Jasper Rubber	34 lbs		
5501-ROF-T	1 ¼ Flat Top TBP Rubber	34 lbs		
5501-RFR	1 $^{1}\!$	51 ½ lbs		
5501-RFR-LP	Low Profile TBP Rubber and 3/8 x 1 3/8" Flat Steel Rim	51 ½ lbs		
5501-RHR	1 ¼ Flat Top TBP Rubber and 1 1/8" Half Round Steel Rim	51 ½ lbs		
5501-RHR-LP	Low Profile TBP Rubber and 11/8" Half Round Steel Rim	51 ½ lbs		



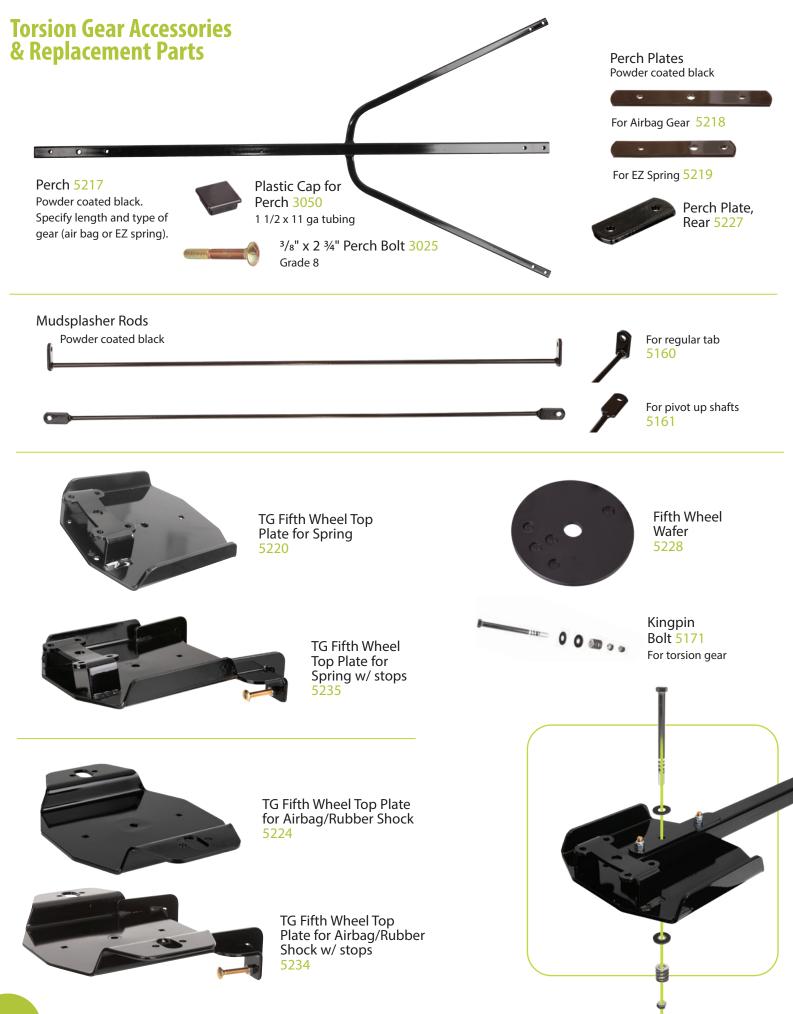
Steel Wheel –	CMS 1 ¼″ Hub	Weight
5502-NONE	No Rubber or Steel	29 lbs
5502-ROH	1 ¼ Half Round Jasper Rubber	34 lbs
5502-ROF-J	1 ¼ Flat Top Jasper Rubber	34 lbs
5502-ROF-T	1 ¼ Flat Top TBP Rubber	34 lbs
5502-RFR	1 $^{1}\!$	51 ½ lbs
5502-RFR-LP	Low Profile TBP Rubber and 3/8 x 1 3/8" Flat Steel Rim	51 ½ lbs
5502-RHR	1 ¼ Flat Top TBP Rubber and 1 1/8" Half Round Steel Rim	51 ½ lbs
5502-RHR-LP	Low Profile TBP Rubber and 1/8" Half Round Steel Rim	51 ½ lbs

Weights based on 40" wheel with 12 spokes

Wheel Accessories



* * * PRO-RATED WARRANTY *	Time elapsed 2 yr	Coverage FULL 50% 30% 20% 10%	CMS Steel Wheel Coverage includes any defect found in the structural soundness of the wheel, under normal use (such as broken spokes, flat spots in channel, cracked hub, etc.) This does NOT include the outer rim, whether it be rubber or steel.
* * *	2 yr24 month	FULL	CMS Outer Rim Coverage on all rubber & steel rim (installed by CMS).



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Pivot-up Shaft Bushing 5257

Delrin plastic. Replacement part for the pivot point of your steel pivot-up shafts.



Pivot-up Plate w/ 1" Tabs

Fits pivot-up plates welded to the axle. Allows easy conversion from pivot-up shafts to regular double hitch pole. Powder coated black.



1" Shaft Spacer 5259 Delrin plastic. 3/8" hole.

Rubber Shock Plate

5159 to install rubber

shock on #5200 gear.



Weld-on Airbag Mount

1 ¹/₈" long spindle 5270

1¹/₈" short spindle 5271

Regular 1 ¹/₄" short spindle 5010

Adjustable Eyes 5149

For double hitch pole.

5230 Raw steel

Fits PA long hub.

Fits PA flush hub.

For CMS hubs.

6103 Raw steel



Brackets to install pivot-up on 1" or 1 1/8" regular axle 5263

3/8" x 1 3/4" Hexhead Bolt Grade 8 3024 For pivot up`



³/₈" x 1" Hex Bolt 3023 Stainless steel



Socket Head Flat Screw -3%" x 1" 3034 Stainless



³/₈" x 1¹/₂" Elevator Bolt Grade 5 3022 Stainless steel



³/₈" x 1¹/₂" Socket Head Cap Screw Grade 8 3021

Pole 5138

for pivot- up

Double hitch, aluminium

Emergency Kit 5480

make a small repair on the

Everything you need to

road to get home safely.

Metal Shafts 5036 Steel heel with stainless



Powder coated black.



Double hitch, aluminium with adjustable heel to fit shaft tabs from 44" centers to 42" centers. Powder coated black. Adjustable pole length to fit a variety of horses and ponies.

Total weight is 52 lbs.

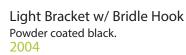


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Miscellaneous Buggy Parts



Halogen Light Bracket Powder coated black. 2010



Light Bracket for Buggy w/ Bridle Hook Powder coated black. 2260

Mirror Bracket Powder coated black. 2148-S short (4 ¹/₈")

2148-M..... medium (5¹/₈") 2148-Llong (6¹/₈")

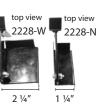


Mirror Bracket Stainless steel

2235-M medium (5 ¹/₈") 2235L long (6 ¹/₈")



Window Holdup Powder coated black. Fits Amish carriage boxes. 2228-N narrow 1 1/4" 2228-W wide 2 ¼"





Window Holdup -Mennonite Style 2228-M

Powder coated black. Fits most Mennonite carriage boxes.



Roller Irons 5279

With nylon rollers. Very quiet & durable. Used for steel rims or rubber tire.

Automotive Paints & Primers



DTR & DTM Black Urethane Primer HP5311

Direct to rust / rust converter. Very high build acrylic urethane primer. Wood grain, etc. filler. Direct to metal application. 3-4 hour sanding time @ 80 degrees. 1 hour pot life. 4:1 mixing ratio w/ HH3100. 1 ½ gal kit



Mudsplasher Strips 5178 $\frac{1}{8}$ " x 1" aluminium strip. Specify length: 29 1/2", 32", 35", 37", 39"



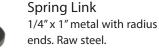
Mudsplasher J-Clips Stainless, with bolts

Extra Bolts, Nuts & Washers for Mudsplasher J-Clips 5173-BP 50 pc. pack





Bio Plastic Eyelette 5174 For J-Clip



2250 .. 1 ¼" hole center 2251 .. 1 ½" hole center 2252 2" hole center



wheel washing a breeze.





Direct to anything application with excellent adhesion. 10 day topcoat window. Not a sanding primer. Direct to rust, has rust converter. 2 gal kit

DURAFLINT 9044 - Black Paint HC9044

Excellent gloss and color retention. 8 hour assembly time, 2 week full cure. 6 hour pot life. 10 year gloss. Can be used in direct to metal application. Comparable to U280. 1 gal kit

Air Bag Kit & Parts

Market Wagon Kit

Reduce vibration and noise in a market wagon or spring wagon. Install on rear axles. Standard kit fits 1" and 1 $^{1}/_{8}$ " axle. Also available for 1 1/4" axle. Specify axle size when ordering.



with Airbags 5087-AB



with Rubber Shocks 5087-RS





Air Bag Bracket 5092 Powder coated black

Air Bag Bracket Adjuster 5089 Powder coated black



Air Bag Bracket Axle Mount 5090 Powder coated black



Poly Tubing 5400 ¹/₄" poly tubing used on all CMS air bag systems.



Air Bag medium 5086



Rubber Shock 5360



This kit of items is used on our 5200-AB Torsion Gear, but can also be used on other gears. Check the list below to be sure this kit includes everything you need.

3023 Hex Bolt - 3/8" x 1" - stainless steel (8)

- 3034 Socket Head Flat Screw ³/₈" x 1" (8)
- 3101 Split Washer ³/8" Stainless steel (8)
- 5028 Air pump (1)
- 5029 Air pressure gauge, bracket (2)
- 5086 Air bag, medium (4)
- 5390 Air pressure gauge 60 psi (2)
- 5398 Brass tee, ¹/8" NPT (2)
- 5399 Watts Air fill valve (2)
- 5400 Poly tubing, ¼" (per foot) (25)
- 5401 Legris tee, 1/4" poly (2)
- 5403 Legris elbow, ¹/8" NPT x ¹/4" poly (2)
- 5410 Legris elbow, 1/4" NPT x 1/4" poly (4)

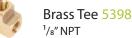


Air Gauge Panel Mount 100 PSI

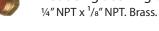
Air Pump 5028 Hand-operated. Included with all gears and kits with air bags. Style and color may vary.



Watts Air Fill Valve 5399 ¹/₈" NPT. Use with standard hand pump or tire chuck.



Reducing Bushing 5405



Legris Tee 5401 For ¼" poly tubing

Legris Tee 5402 ¹/₈" NPT x ¹/₄" poly



Legris Elbow 5410 1/4" NPT x 1/4" poly (fits into airbag)

Legris Elbow 5403 ¹/₈" NPT x ¹/₄" poly

Legris Straight 5404 ¹/₈" NPT x ¹/₄" poly

1/4" Tubing Clip 5183



Self Drilling Screw Panhead #8 x ¹/₂" 3035 Stainless steel



5200-RSKIT

This kit of items is used on our 5200-RS Torsion Gear, but can also be used on other gears. Check the list below to be sure this kit includes everything you need.

- 3034 Flat Socket Head Cap Screw ³/₈" x 1" (8)
- 3021 Flat Socket Head Cap Screw 3/8" x 1 $\frac{1}{2}$ " SS (4)
- 3022 Elevator Bolt ³/8" x 1 ¹/₂" Grade 2 (4)
- 5360 Rubber Shock (4)
- 5159 Rubber Shock Plate (4)
- 3018 Nylon Lock Nut Zinc plated ³/8" (16)
- 3005 3/8" Fender Washer (4)





Mounting Plate 5196 for air toggle switch

250 Maple Ave. Bird-in-Hand, PA 17505 Carriage Machine Shop, LLC •

Air Compressor & Parts

Air Manifold Assembly w/ 2 regulators and air compressor 5192

- Recommended for carriages and buggies with equal weight front and back
- Left side air bags go to left gauge
- Right side air bags go to right gauge
- Simply adjust to preferred air pressure
- Regulators maintain air pressure in airbags and air compressor starts automatically when more air is needed and power is on
- Backup manual air fill valve to charge air reservoir if needed

Air Manifold Assembly w/ 2 regulators, air compressor, and check valves 5193

- Recommended for spring wagons, pick ups, cab wagons, surreys with more weight on the rear axle than on the front.
- Rear airbags go to one gauge
- Front airbags go to one gauge
- Simply adjust to preferred air pressure
- Regulators maintain air pressure in airbags and air compressor starts automatically when more air is needed and power is on
- Check valves help stabilize the load by restricting air from moving between airbags
- Backup manual air fill valve to charge air reservoir if needed

Air Manifold Assembly w/ 2 paddle switches 5194

- Recommended for carriages and buggies with equal weight front and back
- Left side air bags go to left gauge
- Right side air bags go to right gauge
- Fill and release switch for easy air pressure adjustment
- When power is on, air compressor starts automatically when more air is needed
- Backup manual air fill valve to charge air reservoir if needed



Threaded Brass Bushing 5406 1/2 NPT male x 1/8" NPT female

Compression Straight 5431 w/ 1 nut. 1/8" NPT male to 3/16" tube



Compression Straight 5428 w/ 1 nut. 1/8" NPT female to 3/16" tube



Compression Straight 5429 w/ 1 nut. 1/4" NPT male to 3/16" tube



Paddle Switch 5381 Paddle Seat Air Valve 3/16 barb

> Pressure Regulator 5380 Clippard Pressure Regulator, #10-32 Mainfold Mount, Knurled Knob, 10-50 psig

Victor Compact Tire

Pressure Switch 5382

Fixed Setpoint Pressure Switch, wire

lead , 1/8 NPT Male Connection, 50 PSI Setpoint off 30 PSI Setpoint on

Inflator 5383 12 volt air compressor

> SS Face Plate 5192A-1 16 ga #4 polish, for manifold w/ regulators.



Plug 5432 w/ hex drive. 1/8" NPT w/ sealant.

Rubber Ball 5384 for manifold check valve, 5/16".





SS Face Plate 5194A-1 16 ga #4 polish, for manifold w/ paddle switches.

717-397-4079 • 717-397-4085 (fax)

Disc Brakes & Parts

Kits contain parts for 2 wheels. Order 2 kits for 4 wheels. Master cylinder is not included in kits, but can be purchased separately on pg. 17.

PLEASE NOTE: If you are mounting disc brakes on fiberglass or wooden wheels without channel, rubber, and steel, you can expect some rattle due to excessive vibration. Feel free to call with questions!

Disc Brake Kit w/ Covers for Regular Axles 5530-DC Clamp-on bracket. Fits 1" or 1 1/8" axle.



Disc Brake Kit for Regular Axles 5530 Clamp-on bracket. Fits 1" or 1 1/8" axle



Disc Brake Kit for CMS 1 ¼" Hub 5533 For gear with weldon caliper bracket (not included).



Disc Brake Kit for 8 Bolt Hub 5534 For gear with weldon caliper bracket (not included).



Also Available: Disc Brake Kits for Farmerstown Axle Systems5535Fits 1 ¼" Farmerstown Axle5536Fits 1 ½" Farmerstown Axle

Metal Disc ¼" x 9 ½". Zinc plated steel.





5041 For regular hub wheels

5043 For CMS 1 ¼" hub



Brakleen 5247 Used to clean brake rotors and calipers.



Aluminum Disc Mount 5048 For mounting discs to aluminum wheels.



Aluminum Disc Mount 5049 For mounting discs to metal, wooden & fiberglass wheels.



Disc Covers 5100-P High-gloss black plastic.

Disc For #5

Disc Cover Rubber 5186 For #5100 disc covers.

CMS Disc Brakes now compatible with... TROOPER by READEdge



Mounting holes in disc brakes are now provided for quick installation of the Trooper speedometer.

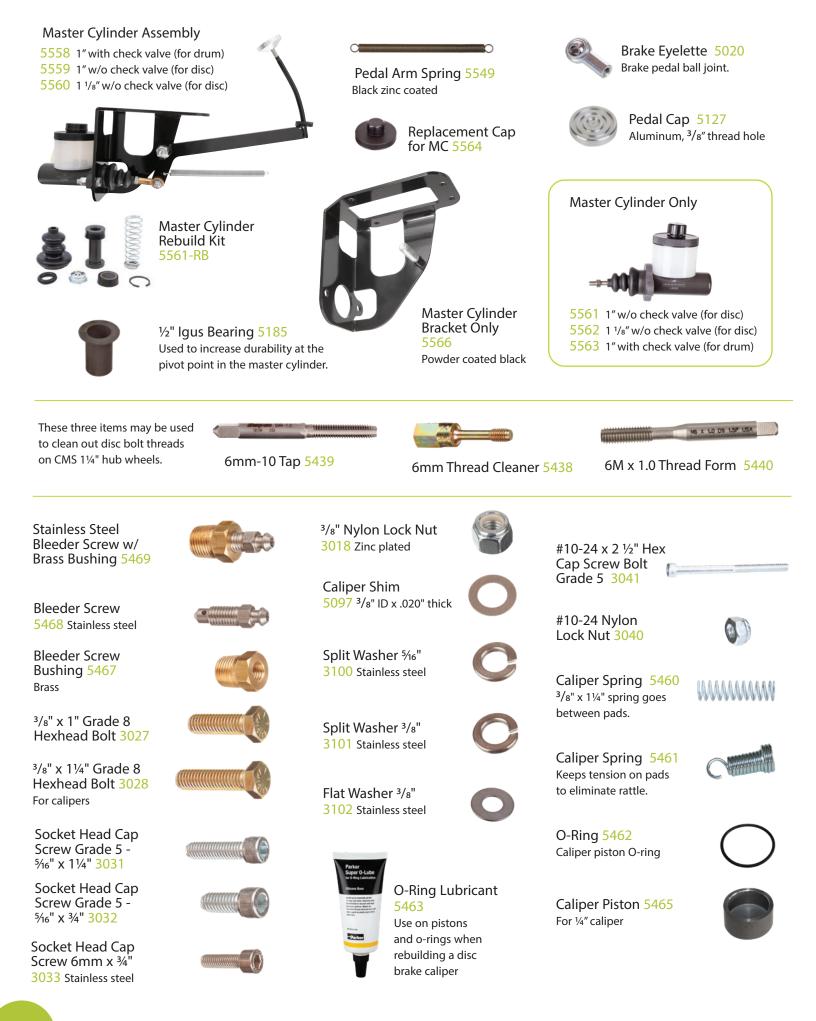


For more information, please contact Dashing Woodworks 717-808-4315 405 Cains Road Gap, PA 17527



717-397-4079 • 717-397-4085 (fax)

17



Brake Fittings



³/₁₆" Brake Tubing High pressure brake tubing is available in 100, 500 & 2000-ft. rolls. 5420per foot 5420-100.....100 ft. roll 5420-500......500 ft. roll 5420-2000.....2,000 ft. roll







³/16" Tubing Clip 5184

Loctite Thread Locker 263

Loctite Thread Sealant 545

5451 Recommended for use on

in place of Teflon tape. 1.69 oz.

disc brakes or air bag fittings. Use

5450 To be used on disc fasteners. 1.69 oz.



- Fits hydraulic disc or drum brakes.
- Solid brass (no-rust)



Compression Tee 5421



Compression Elbow 5422 Fits master cylinder & disc brake calipers.



Compression Straight 5423 Fits drum brakes.



Self Drilling Screw Panhead#8 x ½" 3035 Stainless steel

Replacement Blade 5245







Compression Nut 5424



5393 for Brake Lock Valve & Air Valve

Compression Elbow 5422



5422 Mounting Compression Bracket Elbows

Items sold separately. Shown assembled for reference.

PENNSYLVANIA EXEMPTION CERTIFICATE

This form cannot be used to

Pennsylvania DEPARTMENT OF REVENUE	 STATE AND LOCAL SALES AND USE TAX STATE 6% AND LOCAL 1% HOTEL OCCUPANCY TAX 					les Tax Account count ID or Exempt	
	 PUBLIC TRANSPORTATION ASSISTANCE TAXES AND FEES (PTA) VEHICLE RENTAL TAX (VRT) 			ES (PTA)	(Please Print or Type) Read Instructions		
	ADDITIONAL LOCAL,	. ,	OUNTY HOTEL TAX *			erse Carefully	
THIS FORM MAY BE P	HOTOCOPIED – VO	DID UN	LESS COMPLET	E INFORM	ATION IS	SUPPLIED	
CHECK ONE: PENNSYLV	/ANIA TAX UNIT EXEMP /ANIA TAX BLANKET E>						
Name of Seller, Vendor or Lesso Carriage Machine Shop, LLC	pr						
Street 250 Maple Ave		City Bird	-in-Hand		State PA	ZIP Code 17505	
NOTE: Do not use this form for cla cle, trailer, semi-trailer or tractor wit	iming an exemption on the the PA Department of T	e registra Transport	ation of a vehicle. To c ation, Bureau of Moto	claim an exen r Vehicles, us	nption from the	tax for a motor vehi- e following forms:	
	n for Certificate of Title (fi		. ,	. (t		
Property and services purchased		ficate are	e exempt from tax be	cause: (Sele	,	priate paragraph	
from the back of this form, check t				• •			
1. Property or services will be use		• •					
 2. Purchaser is a/an:holding Sales Tax Exemption Number 3. Property will be resold under Account ID (If purchaser does not have a PA Sales Tax Account ID, include a statement under Number 8 explaining why a number is not required). 							
4. Property or services will be used directly and predominately by purchaser performing a public utility service. PA Public Utility Commission PUC Number and/or U.S. Department of Transportation MC/MX							
 5. Exempt wrapping supplies, Account ID (If purchaser does not have a PA Sales Tax Account ID, include a statement under Number 8 explaining why a number is not required). 							
 Canned computer software purchased by a financial institution subject to the Bank and Trust Company Shares Tax (Article VII) or the Mutual Thrift Institutions Tax (Article XV). 				or the Mutual Thrift			
7. Canned computer software licenses that are billed to a PA address but used outside of PA. The total number of software licenses purchased for invoice #							
8. Other (Explain in detail. Additional spa	8. Other						
I am authorized to execute this certificate and claim this exemption. Misuse of this certificate by seller, lessor, buyer, lessee or their representative is punishable by fine and imprisonment.				yer, lessee or their			
Name of Purchaser or Lessee		Signature	;	EIN		Date	
Street	I	City	y		State	ZIP Code	

1. ACCEPTANCE AND VALIDITY:

For this certificate to be valid, the seller/lessor shall exercise good faith in accepting this certificate, which includes: (1) the certificate shall be completed properly; (2) the certificate shall be in the seller/lessor's possession within 60 days from the date of sale/lease; (3) the certificate does not contain information which is knowingly false; and (4) the property or service is consistent with the exemption to which the customer is entitled. For more information, refer to Exemption Certificates, Title 61 PA Code §32.2. An invalid certificate may subject the seller/lessor to the tax.

2. REPRODUCTION OF FORM:

This form may be reproduced but shall contain the same information as appears on this form.

3. RETENTION:

The seller or lessor must retain this certificate for at least four years from the date of the exempt sale to which the certificate applies. MIMPORTANT: DO NOT RETURN THIS FORM TO THE PA DEPARTMENT OF REVENUE.

4. NONPROFIT EXEMPT ORGANIZATIONS:

This form may be used in conjunction with form REV-1715, Exempt Organization Declaration of Sales Tax Exemption, when a purchase of \$200 or more is made by an organization which is registered with the PA Department of Revenue as an exempt organization. These organizations are assigned an exemption number, beginning with the two digits 75 (example: 7500000).



METAL WHEEL ORDER SHEET

CUSTOMER	 ADDRESS	
PO#		
PHONE#		
ORDER DATE	 SHIP VIA	
COMPLETION		

	#5500	BRAKES INSTALLED	
	REGULAR HUB, LONG SPINDLE		
	36"	DISC ON FRONT	
	38"	DISC ON REAR	
	40"		
	42"	DRUM ON FRONT	
	#5501	DRUM ON REAR	
	FLUSH HUB, SHORT SPINDLE		
	36"	RUBBER & RIM OPTIONS	
	38"		
	40"	FLAT RUBBER	
	42"	HALF ROUND RUBBER	
	#5502	RUBBER & FLAT STEEL	
	CMS 1 ¼"		
	36"	LOW PROFILE RUBBER & FLAT STEEL	
	38"	& FLAT STEEL	
	40"	RUBBER & HALF ROUND STEEL	
	42"	LOW PROFILE RUBBER &	
	TZ	HALF ROUND STEEL	
		NONE	
NOTES:			

Revised 4/26/2021



TORSION GEAR ORDER SHEET

CUSTOMER	ADDRESS
PO#	
PHONE#	
ORDER DATE	SHIP VIA
COMPLETION	_
GEAR TYPE	BRAKES
AIRBAG or RUBBER SHOCK #5200 AB / RS	S DISC ON FRONT
AIRBAG or RUBBER SHOCK #5201 AB / RS	S DISC ON REAR
AIRBAG/SPRING or RUBBER SHOCK #5204 AB / RS	S DISC COVERS
EZ SPRING #5205	DRUM ON FRONT
EZ SPRING #5206	DRUM ON REAR
EZ SPRING #5207	
EZ SPRING #5208	NONE
STRAIGHT AXLE #5210	
STRAIGHT AXLE #5211	MASTER CYLINDER
STRAIGHT AXLE (AB or RS) #5212 AB / RS	
	1" w/ CHECK VALVE (DRUM) #5558
WHEELS	OTHER
36 X 40" METAL	
38" X 42" METAL	
NONE	AXLE SPINDLES
CUSTOM SIZE	CMS 1 ¼"
	LONG SPINDLE 1 1/8"
WHEEL RIM OPTIONS	SHORT SPINDLE 1 1/8"
FLAT RUBBER	
HALF ROUND RUBBER	ALUMINUM STRIP (AIR BAG ONLY)
RUBBER & FLAT STEEL	REGULAR
LP RUBBER & FLAT STEEL	SPLIT
RUBBER & HALF ROUND STEEL	
LP RUBBER & HALF ROUND STEEL	AIR COMPRESSOR KIT
	W/ REGULAR GAUGES
SHAFTS	W/ FACEMOUNT GAUGES
	W/ S.S. GAUGE MOUNTING PLATE
SINGLETREE YES NO	
SPRING TREE CHROME BLACK	BODY BOX SIZE (AIRBAG)
SHAFT ATTACHMENTS	SPRING CENTERS (EZ SPRING) 5TH WHEEL STOP YES NO
PLATE FOR PIVOT UP	WELD ON TABS FOR AXLE LIGHTS YES NO
TABS FOR REGULAR SHAFTS	

NOTES:_



CARRIAGE PARTS

ORDER SHEET

CUSTOMER	 ADDRESS	
PO#		
PHONE#		
ORDER DATE	 SHIP VIA	
COMPLETION		

QTY	PART#	DESCRIPTION	PRICE	TOTAL

Revised 12/11/20

ASK for these products at your local coach shop.



Keep Smiling!



Please call for technical questions. Wholesale accounts: Call for quantity pricing.