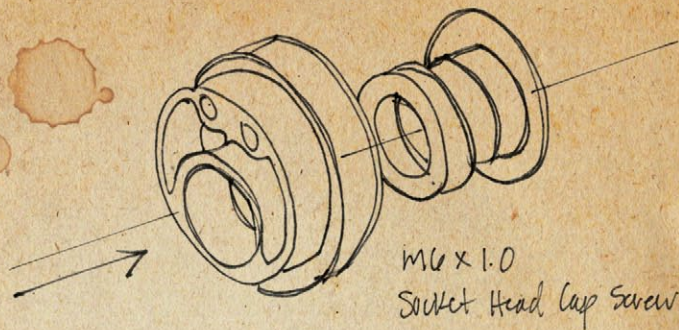
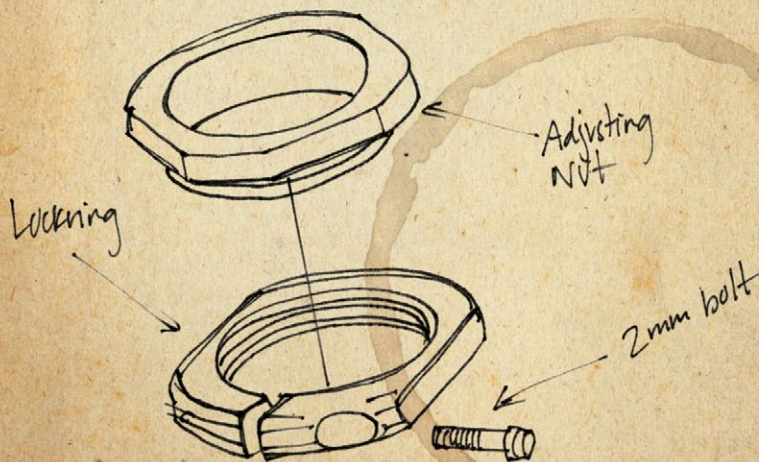




problem solvers

BICYCLE PARTS CATALOG & BATHROOM READER



WELCOME!

Thanks for your interest!

If you've made it this far, we've piqued your interest enough to convince you to open our bathroom reader to page 1. We're flattered. Thank you. If you haven't tossed it into the wastepaper bin by now, please, allow me to convince you to read further.

At Problem Solvers, we're devoted to making complex, crazy, creative and custom bike projects possible. Our parts and accessories give you options—compatibility across diverse industry "standards", replacement hardware, add-ons and attachments—to make your bike just the way you like. To put it simply: we help you transform your bike for purposes never conceived by the manufacturer...much to the chagrin of manufacturers.

This is our first print catalog. We've organized it roughly according to what area of the bike the part is used for, but our hope is that you page through it all to see the vast array of our arsenal.

Enjoy.

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TEAM PROBLEM SOLVERS

CHRIS DUERKOP General Manager

My belly can attest: I like messing about with bikes and parts and their configuration more than I actually ride 'em. I'm widely regarded (by my mom and dad) as an expert basement bike mechanic. I watch far too many home improvement shows, I drink too much beer of poor quality, I don't wear workshop-appropriate footwear and I sometimes use 25.4mm stem clamps with 26.0mm handlebars like it's no big deal.



BEN OLIVER Sales & Customer Service

People call me BenO. I've worked in the cycling industry my entire adult life as a mechanic, both in shops and for different road cycling teams. I'm also one of those A-holes who thinks the bicycle really is a solution to many of the world's ills, if we could just get more people riding them. That's what's so great about working for Problem Solvers—we help people to get on their bikes by making wacky stuff that makes other things work even when they're not supposed to.... in a way it's like we're crusaders for world peace.



ANDERS BROSTE Lead (and only) Engineer

To me a bicycle is freedom to go, freedom to think, and freedom to achieve. I ride because I love it and for no other reason. I've always loved fixing bikes, and now I design bikes and bike parts, which is a dream come true. I love Problem Solvers because necessity is the mother of invention: creativity at its finest. And we've always been about re-purposing and reusing our bike stuff, which was "green" before "green" was cool. Oh, and I don't like the idea of electronic shifting...



Accessory Mounts

Handlebar Accessory Mount

Accessory lovers often run out of space to mount their widgets, especially with road handlebars. This slim clamp allows for more accessories—computers, lights, MP3 players, etc—to be mounted and easy to access. 31.8mm clamp with shims.

HB0901



HB0901



THE WRONG TOOL FOR THE JOB



SPOKE AS AN AWL

Bend a 1.8mm spoke into a comfy handle and sharpen the other end for a handy awl to clear out housing ends after cutting, pick glass out of tires or as toothpick and/or splinter pick (sterilize with the blowtorch). The spoke head is also very effective at pulling hair clogs out of drains.

ZONE	REV.
--	A-00

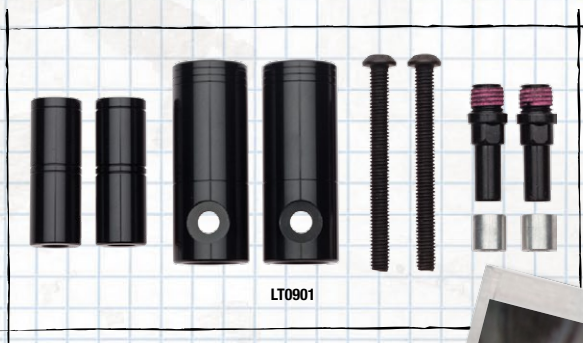
GRAPHIC PLACEMENT

Accessory Mounts

Brake Stud Light Mounts

During a brief visit to Calhoun Cycle in Minneapolis, Greg (sales guy and idea man) asked, "Hey, why don't you guys do a light mount for V-brake studs?" To which I quickly responded, "I don't know." Well Greg, ask and ye shall receive. This pair of mounts attaches to your brake studs to provide a medium-height light position. It'll work with or without the brakes installed. 22mm diameter, black, pair.

LT0901



DATE

ISSUED BY

21-Feb-2012

Accessory Mounts

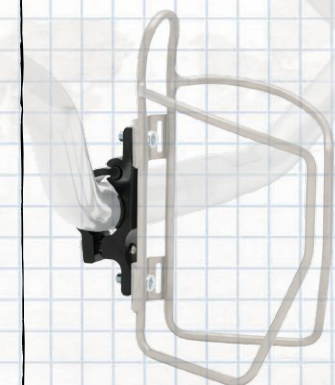
Handlebar Clamp Water Bottle Cage Mount

Our Clamp-on Water Bottle Cage Mount makes it easy to put your water bottle cage on your handlebars (or anything else that uses standard water bottle braze-on spacing). It's especially useful for smaller frames, kids' bikes or just for increasing your H₂O carrying capacity.

WC0900	22.2–25.4mm
WC0901	25.4–31.8mm



WC0900



Quick-Release Nut Light Mount

This handy little bit replaces the nut on your quick release skewer so you can mount a headlight. Maybe your handlebars are already too cluttered with your bell, smart phone, cyclometer, map clip, mirror and coffee cup holder. Or maybe you're a scientist. And scientists know that the lower you mount a light on a bike, the broader your beam of light is, allowing better visibility of objects on the road.

LT0900



LT0900

ZONE	REV.	DESCRIPTION
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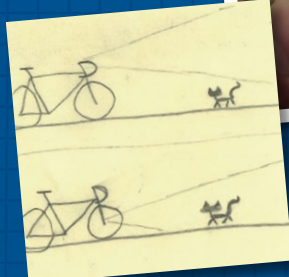
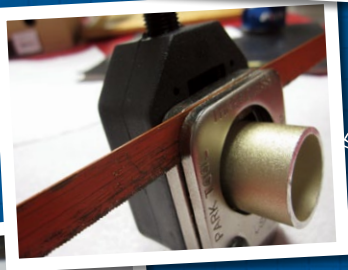
DIY M5 LIGHT MOUNT

Stuff you need:

- Star nut
- Star nut setter
- Steerer tube
- Hacksaw & cutting guide
- M5 bolt
- Headlight

1. Figure out how wide you need the mount to be. This will depend on how wide your light is and where you're going to mount it. Mark the steerer tube accordingly.
2. Cut that thing and file it down.
3. Pound in the star nut with the star nut setter.
4. Mount it to your frame with the M5 bolt.

Bonus points for finding a bar-end plug that'll fit in there.



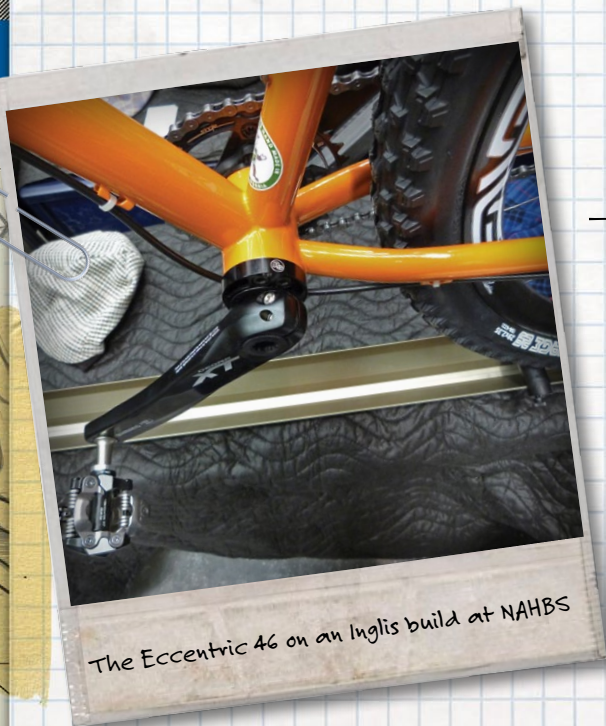
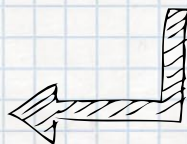
Bottom Bracket Stuff

Eccentric 46 Bottom Bracket

The E46 provides a singlespeed conversion option for modern frames. In recent years, lots of manufacturers chose to build frames with 46mm diameter bottom bracket shells—working around “PressFit 30” bottom brackets. The “30” refers to the crank spindle size, 30mm in diameter. But heck, there’s still plenty of good old 24mm spindle cranks (Shimano Hollowtech II, RaceFace X-Type, etc.) out there. This got us to thinkin’ (dangerous, we know), “most of these modern frames come with vertical dropouts, and there’s no clean singlespeed option”.

So we designed the E46 to fit into those 46mm bottom bracket shells, but instead of “PressFit 30” cranks, the bearings welcome 24mm spindle cranks. When it’s installed, you get 16mm of fore-to-aft adjustment to properly tension your chain.

CR0098



The Eccentric 46 on an Inglis build at NAHBS

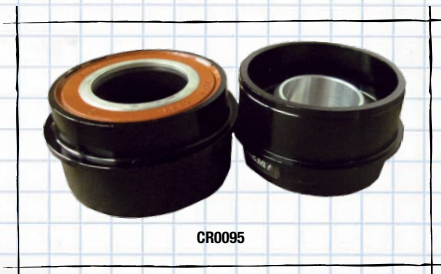
ZONE	REV.	DESCRIPTION
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Bottom Bracket Stuff

Abnormal 46 Bottom Bracket

The A46 combines normally incompatible cranks and frames, accepting 24mm cranks and fitting inside 46mm diameter BB shells (frames designed around PressFit 30 BBs). The good news (for you) is that your old cranks aren't obsolete! The bad news (for crank manufacturers) is that your old cranks aren't obsolete!

CR0094	A46	PF30 to Hollowtech II, MegaExo, X-Type
CR0095	A46	PF30 to GXP



BB30/PressFit 30 Adapter Kit

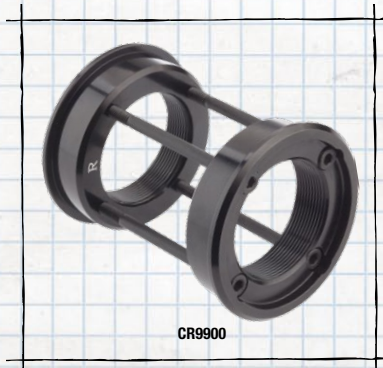
Machined from high-density Dupont Delrin plastic, these adapters allow for the use of external bottom bracket crankarms (24mm spindles) with newer BB30 and PressFit 30 bottom bracket bearings.

CR0096

GXP Spindle Adapter Kit

Our GXP Adapter Kit is made specifically to adapt our BB30/PressFit 30 Adapter Kit and/or our Eccentric 46 Bottom Bracket for use with SRAM/Truvativ GXP cranks.

CR0097



American to English Bottom Bracket Adapter

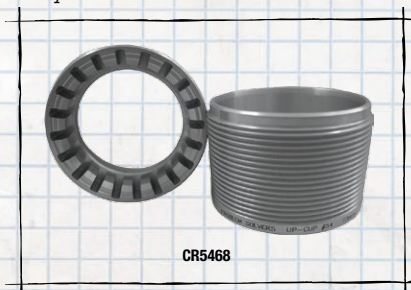
Having a hard time finding a decent replacement BB for your Schwinn Varsity? This simple converter allows you to use your English-threaded bottom bracket in older American-style bottom bracket shells.

CR9900

Up-Cup #54

Our alloy Up-Cup #54 replaces the plastic non-drive side bottom bracket cups for Shimano UN54 square-taper bottom brackets. Use the Up-Cup to replace broken cups or upgrade from the original.

CR5468	68mm
CR5473	73mm



Brake Stuff

Cable Doubler

We make two Cable Doublers. The first allows you to control two brakes with just one lever. The second allows you to control one brake with two levers. Commonly used in adaptive cycling, the Doublers are great because you can use them with any type of cable-operated brake system.

BR3341	1:2 (Pulls 2 brakes with 1 lever)
BR3342	2:1 (Pulls 1 brake with either of 2 levers)



BR3341

Double Barrel Brake Levers

Designed for use with long-pull brakes, the Double Barrel levers allow two brakes to be actuated with one hand.

BR2902	Right
BR2903	Left



BR2903

Bike poloists use our Cable Doubler to keep their mallet hand free

ZONE	REV.	DESCRIPTION
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Brake Stuff

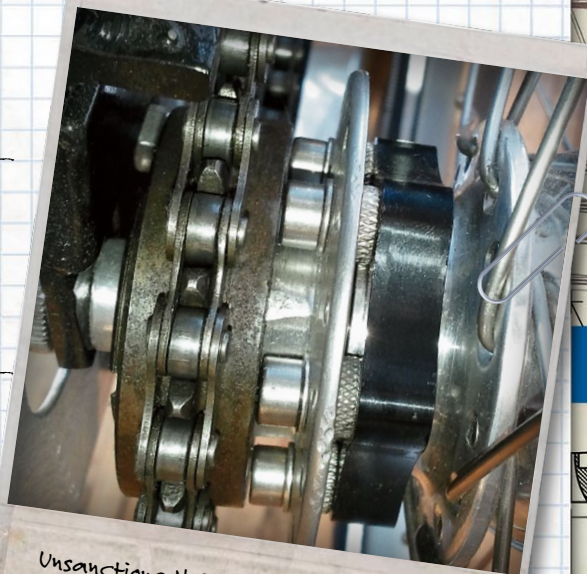
Brake Boss Plugs

Brake Boss Plugs replace removable brake studs—preventing grit, grime and rust from gettin' all up in there. Remember a few years ago when all them mountain frames came with both disc tabs AND removable brake studs? That's why we wanted these. 8 or 10mm diameter. Alloy or plastic. Pairs.

FK9940	Plastic	M8 x 1.25mm
FK9942	Plastic	M10 x 1.25mm
FK9941	Alloy	M8 x 1.25mm
FK9943	Alloy	M10 x 1.25mm



FK9941



Unsanctioned! Center-Lock adapter being used to create a front-drive build

Center-Lock Adapters

These adapters allow the use of 6-bolt rotors on Shimano's Center-Lock hubs. We've got two versions: one with a standard Center-Lock locking, and the other with a pinch-bolt for hubs that have bugged threads.

BR0381	Center-Lock Adapter w/locking
BR0380	Center-Lock Adapter w/pinch bolt



BR2903



Brake Stuff

Cable Hangers

For stoppin' the housin' and hangin' the cables...you know? One interesting note: if you've got a Cane Creek headset, we've got two hangers that are Interlok™ compatible on the bottom.

Part #	Description	Steerer	Color
BR3362	Cross Hanger w/adjuster	1-1/8"	Silver
BR3363	Cross Hanger w/adjuster	1-1/8"	Black
BR3364	Cross Hanger w/adjuster, Interlok	1-1/8"	Silver
BR3367	Cross Hanger w/adjuster, Interlok	1-1/8"	Black
BR3358	Clamp-on Hanger w/noodle	1"	Silver
BR3359	Clamp-on Hanger w/noodle	1"	Black
BR3360	Clamp-on Hanger w/noodle	1-1/8"	Silver
BR3361	Clamp-on Hanger w/noodle	1-1/8"	Black



BR3363



BR3358

Wide Cable Carrier

Spanning 50mm, the Wide Cable Carriers can be mounted lower than conventional hangers, allowing for greater leverage and braking power, especially handy for 'cross setups. The extra clearance also makes them perfect for use with fenders.

BR0350	Silver
BR0351	Black



BR0350, BR0351

Ready for Prime Time

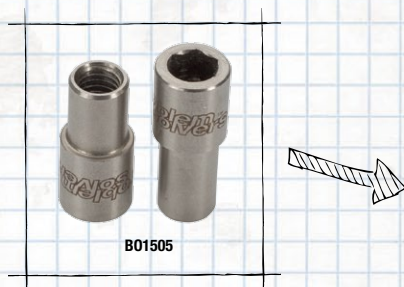
ZONE	REV.	DESCRIPTION
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Brake Stuff

Sheldon Fender Nuts

Mounting fenders to bikes with road calipers is a real pain in the arse. Fickle creatures, the calipers become difficult to adjust once the fenders' tab is stuck on the backside. Enter the late Sheldon Brown. One of our true heroes, Sheldon gave us the idea for the Sheldon Fender Nut. Basically, the Sheldon nut replaces your caliper's brake nut, but also contains threads for standard M6 bolts. This allows you to install and remove the fenders without messing with your brakes.

B01505	13mm front, 10mm rear
B01506	32mm front, 10mm rear



THE WRONG TOOL FOR THE JOB



BABY POWDER FOR SEATING TIRES

Drop the powder on the portion of the tire that's stickin'. When you pump it back up, you should be golden. Gold Bond would probably work too.



FENDER MOUNTING

The nature of the beast is this: fender mounting is an inherently imprecise science. Your frame manufacturer develops the rear triangle with a certain tire size and clearance in mind. The fender maker designs their products around a certain range of frame sizes. As soon as you want to swap out tires or reuse your older fenders, you'll be stuck with some ill-fitting polycarbonate. A couple PS fanboys sent us these DIY fender hacks for better-fitting mudguards.

Vintage Spacers

Mark couldn't get the radius he wanted when his fender was mounted to the chainstay bridge, so he chopped of a bit of wine cork to serve as a spacer. This gave him consistent coverage and a bit of classic flair.

Presta Valve Fender Mount

A friend of ours couldn't get enough fender clearance on his hardtail 29'er (the frame was designed to be able to run fatty tires very close to the seat tube). He realized that he just needed the fender mount to be positioned a bit higher, and told us how he did it:

1. Grab a scrap tube and cut out a section that includes the Presta valve (about 2" on each side in this case)
2. Thread on the Presta valve nut all the way and cut the valve off (leaving about 10mm)
3. Back off the nut to re-thread the valve stem
4. Use a pair of zip ties to attach the tube piece/ valve to the seat tube so the valve portion points to the rear
5. Mount the fender to the valve stem and secure with the valve nut

It ain't pretty. But if you're picky about your fender security and placement, this is a handy trick to have in your arsenal.

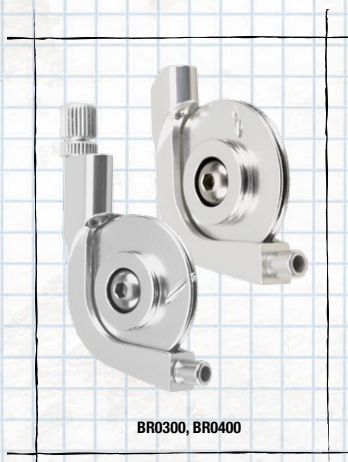


Brake Stuff

Travel Agent

This fancy doo-dad increases the cable pull of short-pull road levers so they'll work with long-pull brakes (like V-brakes or mechanical disc brakes). What? Road and mountain together? It's a perfect example of what we hope to accomplish with this little brand: making two opposing, incompatible forces work together in harmony. Maybe we should've called it the Diplomat...

BR0300	Silver
BR0311	Black
BR0400	Silver w/adjustment barrel
BR0411	Black w/adjustment barrel



15

4.5

Other Brake Hardware

BR7922	Brake Lever Adjustment Barrel, 10mm
B01500	Brake Nut (for road calipers), 22mm
B01502	Brake Nut (for road calipers), 30mm
FS1180	Cantilever Stud, M10 x 1.25mm
FS1169	Cantilever Stud, M10 x 1mm
FS1067	Cantilever Stud Repair Kit

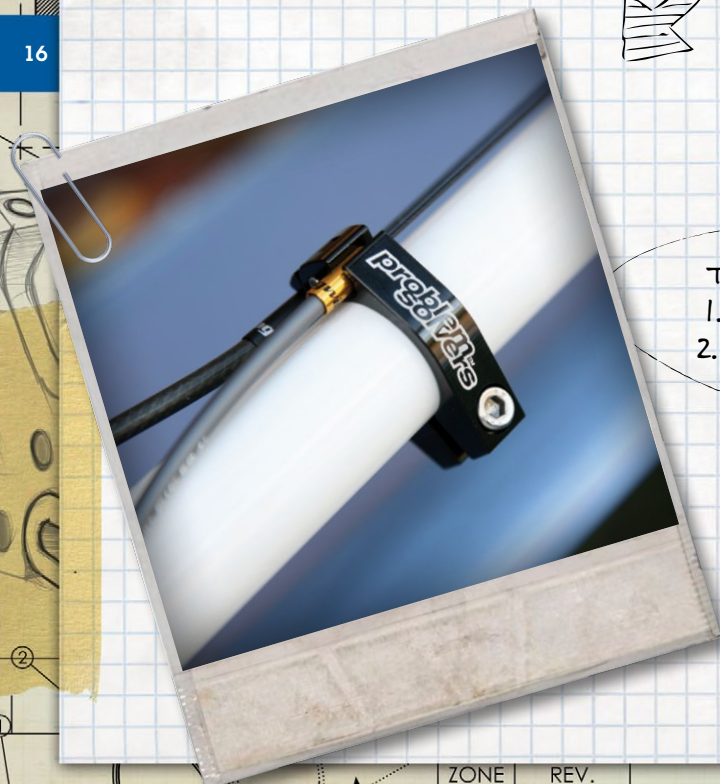


Cables & Housing

Backstop

Available in four clamp diameters for common toptube sizes, the Backstop provides cable stops where there were none. So if you want to put brakes on your track bike, this is whatcha need.

BR5454	1-1/8" (28.6mm)
BR5455	1-1/4" (31.8mm)
BR5456	1-3/8" (34.9mm)
BR5457	1-1/2" (38mm)



TORQUE:
1. Go 'til you strip it out.
2. Back off 1/4 turn.

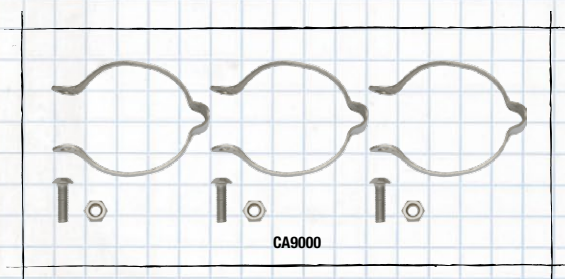
ZONE	REV.	DESCRIPTION
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Cables & Housing

Clamp-On Cable Guides

Our Clamp-on Cable Guides secure full housing on frames that don't have cable stops or housing guides brazed on. Stainless. Three clamp diameters, sold in sets of three.

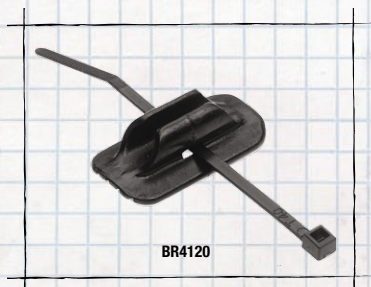
CA0900	25.4mm
CA0901	28.6mm
CA0902	31.8mm



Housing Guides

Put your hydraulic hose or cable housing where you want it.

BR4114	Hydraulic Brake Guides	Mount to existing housing stops	Silver	Pair
BR4115	Hydraulic Brake Guides	Mount to existing housing stops	Black	Pair
BR4120	Stick-On Hydraulic Brake Guides	Zip ties included	Black	Bag/5



Cassette Stuff

Spacers

FW8294	3.0mm, 8-speed spacer	Silver
FW1323	3.5mm, 5/6-speed spacer	Black
FW8400	4.5mm, fits 7-speed cassette to 8/9/10-speed freehub	Black
FW8401	Fits 10-speed cassette to 11-speed freehub	Black



FW8401

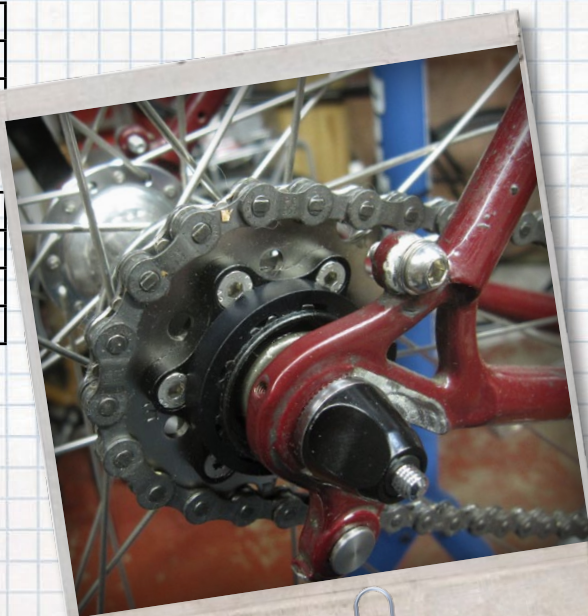
Cogs

Stamped singlespeed cogs are inexpensive, but tend to wear a groove into your freehub body's spline. Cogs with thicker profiles tend to be pretty expensive, so when they wear out you're stuck buying a new one.

Wouldn't it be great if you could have a little of both?

Our cogs have no splines, but they easily mount to our splined Cassette Cog Carrier (CCC). That way, you get the broad contact patch of the CCC along with inexpensive cog replacements. Here's the kicker: the hole-pattern for the cogs fits on to 6-bolt disc rotor mounts. So if you've always wanted flip-flop fixed/free hub for off-roadin', you've got it.

FW9907	CCC w/17t 6-bolt cog
FW9908	CCC w/19t 6-bolt cog
FW9900	16t 6-bolt Cog
FW9901	17t 6-bolt Cog
FW9902	18t 6-bolt Cog
FW9903	19t 6-bolt Cog
FW9904	20t 6-bolt Cog
FW9905	21t 6-bolt Cog
FW9906	22t 6-bolt Cog



ZONE

A-00

DESCRIPTION

GRAPHIC PLACEMENT

Derailleur & Shifting Things

Direct Mount Adapter

We initially developed this adapter for standard mountain bike frames with 68/73mm-wide bottom bracket shells, but quickly realized the need was much greater for the fat bike market, where the 100mm wide bottom brackets make front derailleur applications a little difficult. So we did both: our Direct Mount Adapters clamp around the seat tube to allow for the use of Shimano high direct-mount front derailleurs on frames with either 68/73 or 100mm wide bottom brackets.

Part #	BB Shell	Seat Tube Clamp Size
FS1322	100mm	34.9mm Clamp w/31.8, 28.6mm shims
FS1325	Moonlander	34.9mm Clamp w/31.8, 28.6mm shims
FS1323	68/73mm	34.9mm Clamp w/31.8mm shims
FS1326	68/73mm	28.6mm



FS1322



Direct Mount Adapter on a Hunter 29'er



Derailleur & Shifting Things

Braze-on Adapters

For mounting braze-on front derailleurs on bikes without the braze-on mount. Because these are slotted, they come in especially handy on smaller frames where water bottle cage bolts interfere with proper derailleur mounting.

DP0910	28.6mm	Silver
DP0911	28.6mm	Black
DP0920	31.8mm	Silver
DP0921	31.8mm	Black
DP0930	34.9mm	Silver
DP0931	34.9mm	Black



DP0911



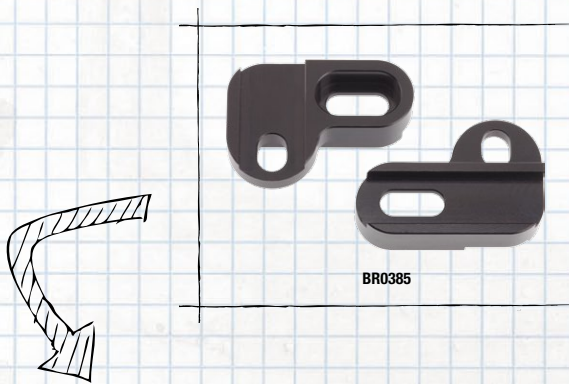
WHO'S YOUR MECHANIC?

Derailleur & Shifting Things

MisMatch Adapter

We love that mountain component manufacturers are making shift and brake levers that can be connected to each other to save handlebar space. But what if you want to mix 'n' match? We've developed our MisMatch Adapter to mate MatchMaker™ compatible SRAM shifters with I-Spec™ compatible brake levers from Shimano.

BR0385



Derailleur & Shifting Things

Cross Clamp

Our Cross Clamps mount to your seat tube to make your top-routed cables compatible with bottom-pull road derailleurs. Whaa? Well, you wanna race 'cross, right? But 'cross frames have top-routed cables, requiring a top-pull front derailleur. All the good, light components tend to be coopted from road groups, which have bottom-pull-only derailleurs. Lots of 'cross frames have a mount for a pulley already integrated—the Cross Clamp allows you to do this with any frame. Get it?

FS0911	Cross Clamp	28.6mm	Black
FS0913	Cross Clamp	31.8mm	Black
FS0915	Cross Clamp	34.9mm	Black
FS0917	Cable Pulley		Black



FS0911

Grease is cheap.
Parts is expensive.



ZONE

REV.

DESCRIPTION

A-00

GRAPHIC PLACEMENT

Derailleur & Shifting Things

Two-Pulley Tensioner

On frames with vertical dropouts, use our TPT to take up chain slack on singlespeeds or internally geared hubs on bikes with vertical dropouts. For bonus points, you can use it to create 2 x 1 or 3 x 1 drivetrains. On-the-go chainline adjustments make this a favorite among the Solvers staff. Max cog size: 18-tooth. Chain wrap: 20-teeth. For 3/32" chains.

CH0900



23

4.5

Chain Tensioner w/Derailleur Hanger

Cures singlespeed frame-buyer's remorse. This handy tensioner secures your axle in place and features a derailleur hanger so you can convert back to geared living.

CH0901



Derailleur & Shifting Things

Shifter Mounts

We love us some downtube shifters. In fact, we love 'em so much we'd like to put 'em on bikes that don't have downtube shifter mounts. Use this clamp to mount 9/10-speed shifters to 28.6/31.8mm downtubes.

LD0900	Downtube Shifter Mount
LD0901	Steerer Tube Shifter Mount



THE WRONG TOOL FOR THE JOB



SPANNER WRENCH AS BAR TAPE HOLDER

I loathe wrapping drop bars. You've got to be meticulous, consistent. But then you get halfway through and get a call (from nature, duty or your mom). You've got one hand on the wrap, but if you leave you lose your progress.

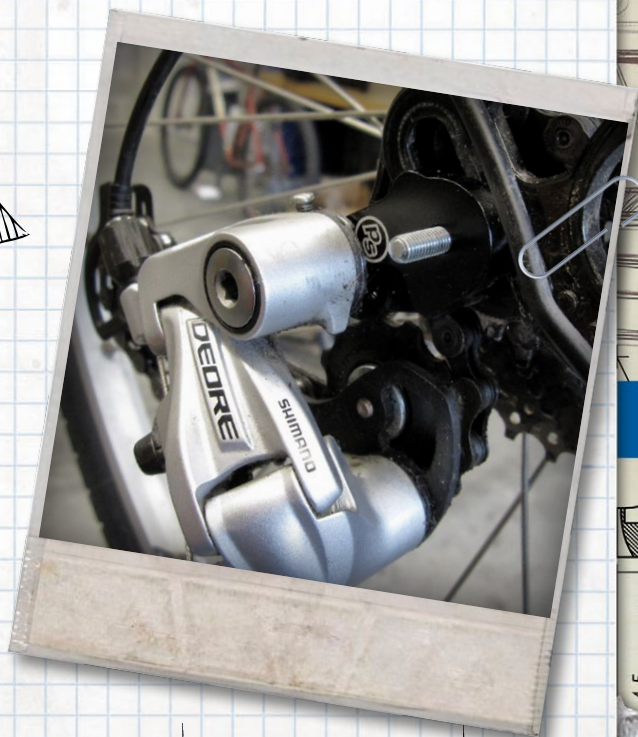
Before starting to wrap, grab a spanner wrench. When you've got to take a break in the middle of the job, just pinch the tape to the bar with the spanner. It acts as a clothespin, gently holding the wrap in place. Now you can jump-rope, go to the fridge, or page through the latest Family Handyman magazine and get back to your bar wrapping at your leisure.

Derailleur & Shifting Things

Universal Derailleur Hanger

The Universal Hanger should be in everyone's saddlebags. If your existing derailleur hanger busts, strips or is totally wonky, the Universal Hanger replaces the drive-side nut on your quick-release skewer so you can get the majority of your gear range back. This little guy is absolutely essential for touring or epic mountain biking.

FS0920



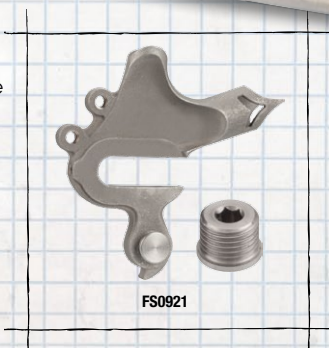
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4.5

Derailleur Hanger Plug

We've seen all those fixed-gear conversions in the wild with the derailleur hanger just sitting there lookin' ugly. Enter the Derailleur Hanger Plug. It's stainless (which is nice). The cool part: the 4mm hex broach is on the inside of the derailleur hanger, so you get a smooth, finished look instead of an empty hole. Better yet, it'll keep grit and grime from mucking up the threads.

FS0921



Derailleur & Shifting Things

Shifter Boss Covers

These boys cover up the downtube shifter bosses on your singlespeed/fixie conversions, protecting the bosses from grit and grime, and look good doing it.

FS0900



Shifter Boss Covers on a
Pinarello conversion

THE WRONG TOOL FOR THE JOB



REPAIR STAND CLAMP AS TIRE SEATER

When your stubborn tire won't seat correctly,
clamp the trouble spot in your repair stand.

ZONE	REV.	DESCRIPTION
--	A-00	GRAPHIC PLACEMENT

Hardware

Chainring Bolt & Nut Sets

Because those chainrings won't attach themselves.

Part #	Usage	Material	Color	Qty
CR1470	Single	CroMoly	Silver	Set/5
CR1471	Double	CroMoly	Silver	Set/5
CR0010	Single	Alloy	Silver	Set/5
CR0011	Single	Alloy	Black	Set/5
CR1401	Double	Alloy	Silver	Set/5
CR1400	Double	Alloy	Black	Set/5
CR1472	Single	Stainless	Silver	Set/5
CR1473	Double	Stainless	Silver	Set/5

Double Hex Head Chainring Bolt & Nut Sets (5mm hex bolt, 6mm hex nut)

CR1475	Double	Alloy	Silver	Set/5
CR1476	Double	Alloy	Black	Set/5
CR1477	Double w/Guard	Alloy	Silver	Set/5
CR1478	Double w/Guard	Alloy	Black	Set/5

Inner Chainring Bolts (no nuts)

CR1647	Inner (12.5mm)	CroMoly	Silver	Set/5, bolts only
CR1405	Inner (8mm)	Alloy	Black	Set/5, bolts only
CR1406	Inner (8mm)	Alloy	Silver	Set/5, bolts only
CR1650	Inner (16mm)	Stainless	Silver	Set/5, bolts only

More Hardware

HU7100	Axle Nuts, 10 x 1mm
HU7101	Axle Nuts, 9.5mm x 26 tpi
HU7102	Axle Nuts, 9 x 1mm
CR1408	Crank Bolts, M15
CR1238	Crank Bolts, M8



CR1400-06



HU7100



CR1408



Headset Stuff

Headtube Adapters

Adapt your headtube to accommodate different fork sizes, or to add a "regular" fork to your "weird" frame. These reducers are designed for traditional, external cup headsets.

Part #	Fork	Headtube	Stack Height
HD9900	1-1/8"	EC37 (1-1/4" traditional)	Adds 2mm
HD9901	1"	EC34 (1-1/8" traditional)	+2mm
HD9902	1-1/8"	Headshok (2")	+12.7mm
HD9903	1-1/8"	Klein (2")	+12.5mm
HD9904	1-1/8"	EC49 (1-1/2" traditional)	+9mm



HD9900

*For a case of beer, I'd be game
for some lunchtime knurling.*



Headset Stuff

Locking Headset Spacers

Locking spacers keep the fork in place when the top cap and stem are removed. This is useful for a multitude of reasons: maintaining headset adjustment when switching stems, displaying frame/fork combinations, shipping bikes, or traveling with a bike. 8mm tall. For 1-1/8" steerer tubes only.

HD9974	Black
HD9975	Silver



HD9974

Top Caps & Compression Plugs

Things could get very unpleasant, very fast if you don't have one of these installed.

Part #	Model	Color	Steerer Size
HD0900	Ultra Light Top Cap	Silver	1-1/8"
HD0901	Ultra Light Top Cap	Black	1-1/8"
HD0111	Standard Top Cap	Black	1"
HD0131	Standard Top Cap	Black	1-1/8"
HD0931	Top Cap w/star nut	Black	1-1/8"
HD9911	Compression Plug	Black	22-26mm ID



HD0900



HD0931



HD9911



Headset Stuff

Micro-Adjustable Headset Spacer

This spacer replaces the star nut or compression plug in your headset assembly. How? Well, after installing your headset spacers and stem, the Micro-Adjustable Spacer snugs up your stem against the spacers with a 36mm headset wrench.

HD9970



THE WRONG TOOL FOR THE JOB



PRESTA VALVE NUT SPACERS

We discontinued our 3mm SpaceOuts when we realized that anyone who needed a thin spacer could just look around the shop floor and find two or three or fifty Presta valve nuts. If your bolts are too long, if your water bottle cage is interfering with your front derailleur clamp, if your fenders are messing with your disc brakes, etc...

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Pumps & Inflation

Air Bob

The Air Bob is a universal tire inflator that attaches to air compressors (via standard 1/4" NTP quick couplers) and sports an integrated pressure gauge. Fits Presta & Schrader valves. Quickly inflate your tubes and leave the floor pump alone.

PU9997

Presta Valve Extenders

Available for both standard valves and those with removable cores, our Presta Valve Extenders add 30-70mm to your existing valve length for the deep section rims.

Part #	Type	Length	Color
PU4513	Removable Core	30mm	Silver
PU4516	Removable Core	30mm	Black
PU4514	Removable Core	50mm	Silver
PU4517	Removable Core	50mm	Black
PU4515	Removable Core	70mm	Silver
PU4518	Removable Core	70mm	Black
PU4500	Standard	34mm	Black
PU4501	Standard	34mm	Silver
PU4511	Standard	52mm	Black
PU4512	Standard	52mm	Silver



PU4500



PU9997



PU4513

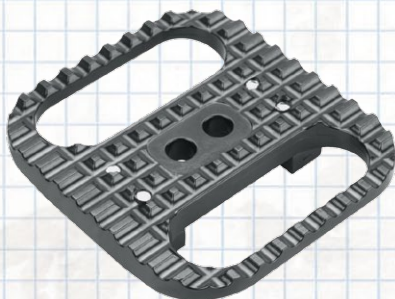


Pedals

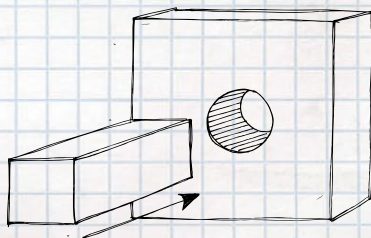
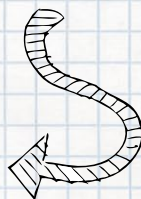
Deckster Clipless Pedal Adapters

Sometimes wearing socks-and-sandals doesn't seem so wrong. Our Decksters attach to your two-bolt style cleats so you can clip the platform into your clipless pedal and BLAMMO: a flip-flop pedal so you can wear your flip-flops.

PD1151



PD1151



No Problem

No longer a fashion faux pas

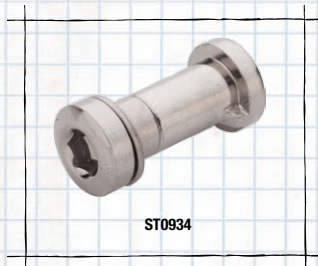
ZONE	REV.	DESCRIPTION
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Seatpost Enhancements

Seat Binder Bolts

CroMoly. Slotted. Shiny.

ST0934	16mm
ST0935	19mm
ST0936	21mm



Seatpost Clamps

Our Seatpost Clamps with rack mounts provide a stable spot to mount your rear rack stays on bikes without seatstay braze-ons. Very handy.

ST0686	31.8mm	Black
ST0687	34.9mm	Black



THE WRONG TOOL FOR THE JOB



SPOKE AS CHAIN HOLDER

Got this one from Brett Fleming over at Efficient Velo Tools. Use your needlenose to bend a spoke around in a full loop, put an angle on the end. This will keep your chain in place while you mess around with your chain tool and connector links.



Seatpost

Seatpost Shims

Part #	Seatpost Size	Seat Tube Size	Thickness
ST0250	30.9mm	31.6mm	0.7mm
ST0214	27.2mm	28.6mm	1.4mm
ST0220	27.2mm	29.2mm	2.0mm
ST0222	27.2mm	29.4mm	2.2mm
ST0224	27.2mm	29.6mm	2.4mm
ST0226	27.2mm	29.8mm	2.6mm
ST0228	27.2mm	30.0mm	2.8mm
ST0230	27.2mm	30.2mm	3.0mm
ST0232	27.2mm	30.4mm	3.2mm
ST0236	27.2mm	30.8mm	3.6mm
ST0237	27.2mm	30.9mm	3.7mm
ST0242	27.2mm	31.4mm	4.2mm
ST0244	27.2mm	31.6mm	4.4mm
ST0246	27.2mm	31.8mm	4.6mm

Part #	Seatpost Size	Seat Tube Size	Thickness
ST0506	27.2mm	26.0mm	0.6mm
ST0508	25.4mm	26.2mm	0.8mm
ST0510	25.4mm	26.4mm	1.0mm
ST0512	25.4mm	26.6mm	1.2mm
ST0514	25.4mm	26.8mm	1.4mm
ST0516	25.4mm	27.0mm	1.6mm
ST0518	25.4mm	27.2mm	1.8mm
ST0532	25.4mm	28.6mm	3.2mm
ST0538	25.4mm	29.2mm	3.8mm
ST0550	25.4mm	30.4mm	5.0mm
ST0552	25.4mm	30.6mm	5.2mm
ST0554	25.4mm	30.8mm	5.4mm
ST0555	25.4mm	30.9mm	5.5mm
ST0562	25.4mm	31.6mm	6.2mm



Better than pop cans, no doubt about it.



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More Shims & Spacers

SpaceOuts

6mm spacers for use with M5 bolts.
These little guys are especially helpful when the front derailleur clamp interferes with water bottle cage mounting. Or fenders. Or any time your bolt is too long. Or if you want to make a really ugly necklace for a special someone.

B01524	Pair w/bolts
B01534	Bag/10



Steerer Tube Shims

Part #	OD	ID	Length/Height	
SM0260	25.4mm	22.2mm	10mm	Fits 1-1/8" cable hangers on quill stems
SM5320	28.6mm	25.4mm	38mm	Fits 1-1/8" stems on 1" threadless steerer
SM5318	28.6mm	25.4mm	49mm	Fits 1-1/8" stems on 1" threadless steerer

Handlebar Shims

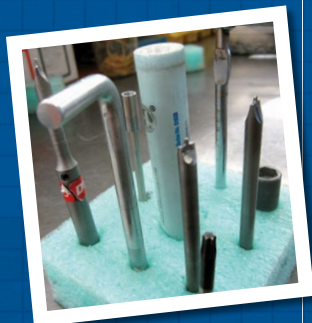
Part #	OD	ID	Length
SM5317	31.8mm	26mm	48mm
SM5316	31.8mm	25.4mm	44mm
SM1071	26mm	25.4mm	45mm
SM1070	26mm	25.4mm	35mm
SM3002	22.2mm	25.4mm	38mm



WHEEL TOOLS

Wheel Tools

We offer a weirdly small selection of wheel tools. As we don't do any other tools, they seem out of place. Well, long story short, our small staff is part of a much larger whole, Quality Bicycle Products, who's wheel-building department has a long-running history of problem solving...



Hjerpe's Nipple Driver

Dan Hjerpe works in QBP's facilities department. We don't really know what he does, other than he materializes whenever something goes wrong. Dan's responsible for many one-of-a-kind tools that the wheelbuilders use on a daily basis: a stand for filling hubs, a custom track system for wheels that come out of the lacing machine, wood table inserts that stabilize hubs and rims for hand-lacing...the department was truly built from the ground up. As things grew, they needed a faster way to lace wheels than the hand-cranked nipple driver that was available. Many iterations of what later became the Holy Driver were hand-made by Dan before we brought it to market.

Williams' Adapters

In training for wheelbuilding, I paged through Gerd Schramer's *The Art of Wheelbuilding*, read up on sheldonbrown.com and looked at all manner of diagrams, and read up on "leading" and "trailing" spokes. I didn't get it. One day, Joel Williams came over to the bench where I was lacing, impatient. "Here. See the logo [on the hub]? Count four, grab this one and start here [by the valve hole]. Then it's just over, over, under." In those few seconds I learned how to lace a three-cross wheel. Joel's mastered the art of making life easier. Joel thought that the thru-axle truing stand adapters we made were okay, but not great; they always slipped out of the hub when he put 'em in the squisher or checked the dish. He and Dan collaborated to cut a groove into the alloy and install an o-ring so they didn't fall out. He brought the idea to us and our new Thru Axle Truing Stand Adapters are the result.



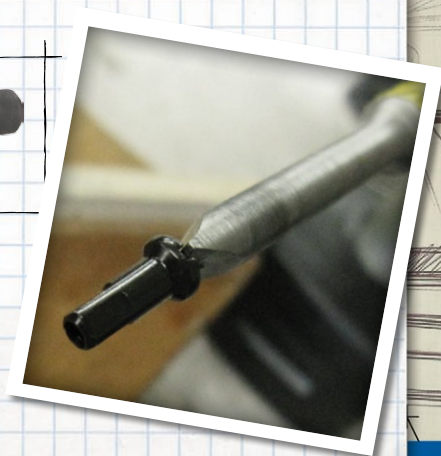
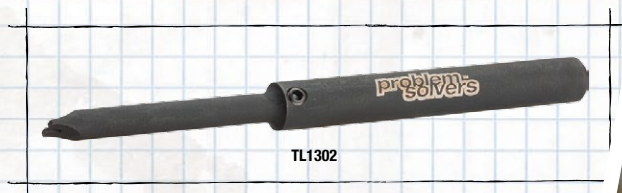
ZONE	REV.	DESCRIPTION
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Wheel Tools

Holy Driver

For quicker wheel building, use the Holy Driver to set your nipples to consistent depths. CroMoly with a black oxidized finish.

TL1302



Thru-Axle Adapters for Truing Stands

Two adapters: one front and one rear for current thru-axle hubs. Grooves and O-rings help keep the adapters in place while you check dish or stress-relieve the spokes.

TL1303	Front	9/15/20mm	Pair
TL1304	Rear	10/12mm	Pair



Shop Rags

How often is it that you remember to wear your apron? If you're like us, you forget a lot. So we wear our Problem Solvers t-shirts, 'cause when they get a big nasty charring stain on 'em or we spill a super-dark stout down the front, we can just rip 'em up and they make the best damn shop rags around.

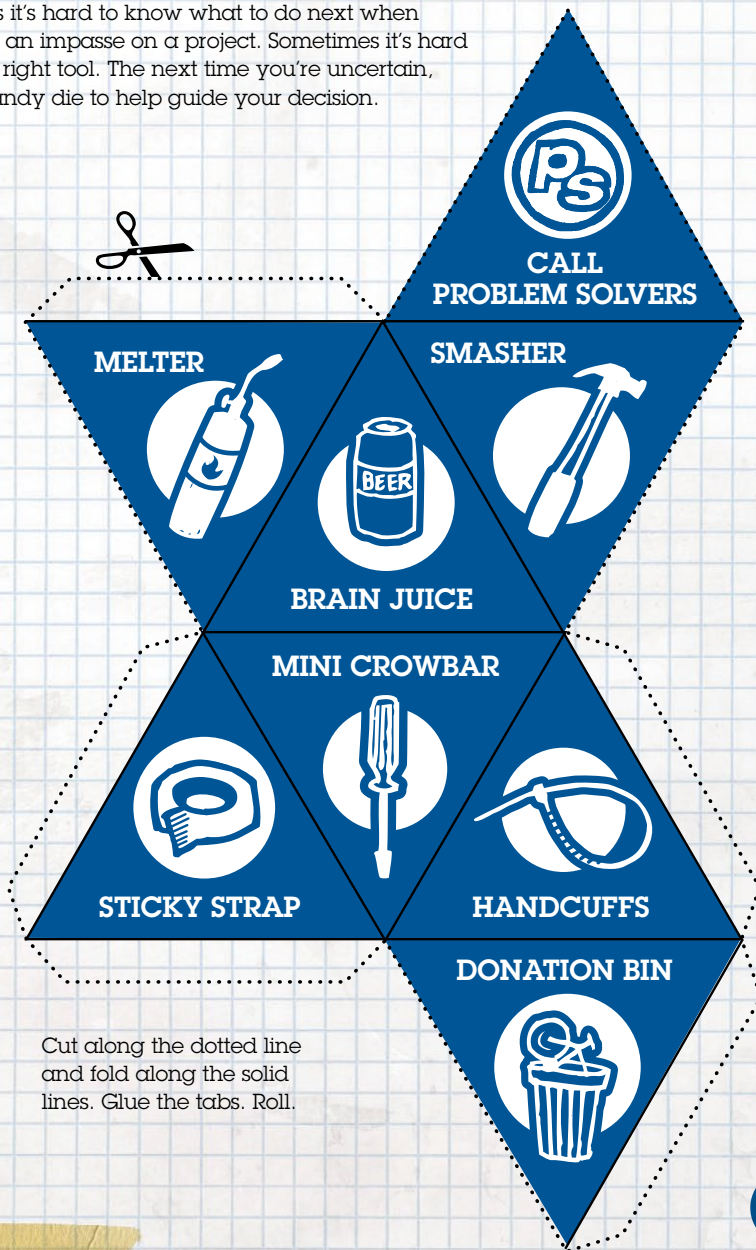
Square Peg		
Size	Men's	Women's
SM	CL5900	CL5905
MD	CL5901	CL5906
LG	CL5902	CL5907
XL	CL5903	CL5908
XXL	CL5904	

What's Your Problem?		
Size	Men's	Women's
SM	CL5909	CL5914
MD	CL5910	CL5915
LG	CL5911	CL5916
XL	CL5912	CL5917
XXL	CL5913	



Problem Solving Die

Sometimes it's hard to know what to do next when you reach an impasse on a project. Sometimes it's hard to find the right tool. The next time you're uncertain, use this handy die to help guide your decision.



Cut along the dotted line and fold along the solid lines. Glue the tabs. Roll.



What's Your Problem?

Our best products start as ideas from the front lines: your workbenches. Whether you're a full-time pro bike shop mechanic or a zip-tie-lovin' bike hacker, your stroke of genius may come in handy. Let us know how we can help: write down, draw, explain, or transmit to us via telepathy.*

* Or you could email us: info@problemsolversbike.com
Write: 6400 West 105th Street, Bloomington, MN 55438
Call: 1-877-997-2572

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Notes



Notes

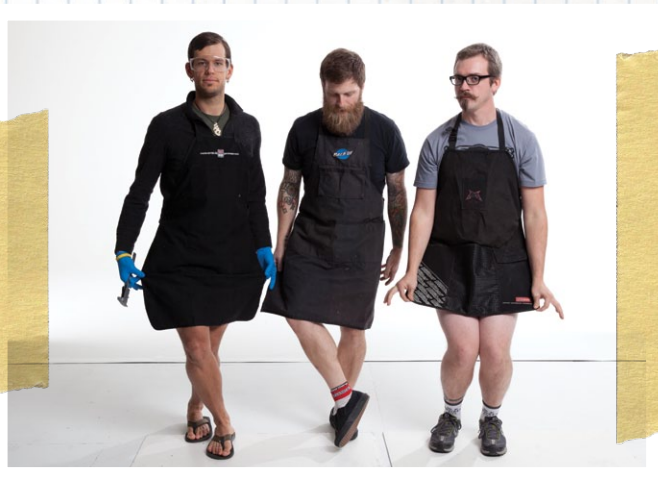
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Where to Buy

Buy Problem Solvers Locally!

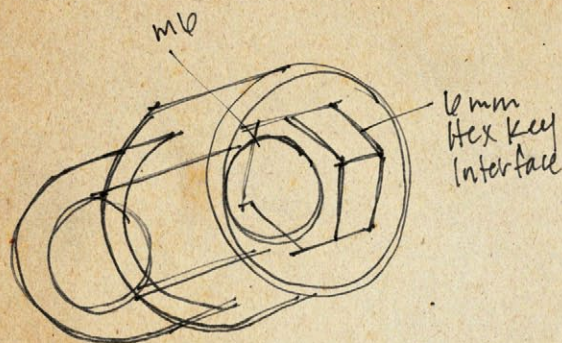
You'll notice that there aren't any prices in this here "catalog." That's 'cause we don't sell our stuff directly to just anybody. We're sold exclusively through bicycle retailers. Why? At one point or another, everyone on the Problem Solvers team has worked in a bike shop. And we understand that the bike shop knows best. Our motivations and product ideas come from the workbench, and we want knowledgeable, technically savvy folks installing our products. We're sold through 5,000 different bike shops in the US of A—there's probably one in your town.

We recently said "engage" for a "Buy Local Now" button to be displayed next to our products on ProblemSolversBike.com. In this way, any visitor to the website can find the product they want from a bike shop in their hometown or, if one's not available, an online retailer. We think that's pretty cool.

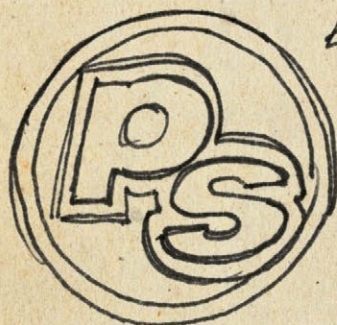


Danke Schöen!
Team Problem Solvers





MAKE IT WORK



← Awesome

Nominal Conversion

mm	inches
22.2	7/8"
25.4	1
28.6	1 1/8
31.8	1 1/4
34.9	1 3/8
38.0	1 1/2

28.6 Clamp
Backstop

