ICH SUCCEAGUAL

How to, prices, specs, spring rates and tricks you ought to know if you're going to mess around with these things in the first place.



ARNACO, BETOR, BOGE, CURNUTT, HO KONI, RED WING, TELESCO, AND THERMAL PHASE

By the absolutely wasted Editors of MODERN CYCLE

oww.legends=vamgha=enduros.c

What we have attempted to do here, is give you a comprehensive guide to all the rebuildable shocks on the market. None of the gas shocks are included, even though several are rebuildable. We're experimenting with several of those right now, including the Ceriani and Marzocchi.

The shocks we've gone into here, make up the bulk of the accessory shocks available and some of them even come as original equipment on new motorcycles.

You'll notice a big difference in the amount of information present on the different shocks. This is most assuredly not favoritism for one brand over another, but rather an obvious effort on the part of some shock manufacturers to put out information. A good com- manufacturers that do not currently parison would be the amount of data

ings from the long time leader in the field, Koni. Apparently, Boge is trying harder to please and inform the customer, while Koni is so secretive about their product, that information is next to impossible to obtain.

Additionally, some of the largest manufacturers of rebuildable shocks, like Yamaha, do not even sell a tool for working on the Thermal-Phase shock.

Part of the mystery extends to springs and their identification. We have what must be considered the most complete spring rate charts available on these pages, but still, several manufacturers offer little or no information about what they sell to the public.

We've included several springs from offer a rebuildable shock — notably then take a look at the meager offer- they are commonly available springs.

It's interesting to note that shocks that used to be considered the leaders in the field (Ceriani, Betor, etc.) have all but disappeared from the scene. Much of the reason for their decline, we feel, is their lack of getting the data out to the buying customer. In fact, the standard Ceriani shock is not even included in this article, because the current licensed rep has locked inventory and did not even want to disseminate info.

And on the other hand, we applaud the fine efforts of companies like Red Wing and Boge for not only making the information available, but for going out of their way to assist us in assisting you.

One last thing . . . this is not a comparison test of any sort . . . but rather a collection of information that absoand specifications available from Boge, S & W and Girling-simply because lutely should find a permanent home in your toolbox.

SHOCK ABSORBER MODELS 11¾" SHOCKS

Greeves 250 MX Griffon, 250 Desert Griffon, 380 MX

Husqvarna 125 MX, 175 MX, 250 MX, 250 Enduro, 360 MX, 360 Enduro, 400 MX, 450 MX, 450 Desert Master

Kawasaki MC-1M 90, MC-1 90

Ducati 750 GT Sport Suzuki GT185, GT250, GT380, GT500, GT550, GT750

124" SHOCKS American Eagle 125 CMX R2, 250 CMX R2, 400 TMX R2

Can Am 125 MX, 175 MX, 125, 175 Enduro

Cooper 250 MX. Enduro DKW 100, 125 MX

Greeves 175 Pathfinder Harley Davidson Z-90, SR-100 Baja, TX-125,

SX-175, SX-250 Kawasaki G-3 90, G-5 100, K-S 125, G-3 100

Montesa 123 Cota Trials, Picnic, 125 Capra MX

Ossa 175 Stiletto Pion., 250 Stiletto Pion., DMR

Penton 125, 175 MX, 125, 175 Enduro Rickman 250 MX

Rokon 134 Trail, RT-340 Enduro Suzuki

TS-125, TC-125, TS-185, TC-185

Yamaha
DT100, LT2, LT3, 100
Enduro, DT125, AAT2, AT3,
125 Enduro, DT-175, DT250,
DT360, DT400, MX100,
MX125, VZ125, MX175,
YZ175, TY250

Zundap 125 MX, Enduro

Bultaco Astro 200TT, 250TT, 350TT, 360TT

Honda CB100 KI/K2, CB/CL 125SL Kawasaki G-3 100, SI-250, S2-350, Mach II, 500 Mach III, H1-500, KZ 400 Yamaha RD250, RD350, XS500, TX500, XS650, TX650

13" SHOCKS

American Eagle 125 Traits Bridgestone 100 GP Enduro

Bultaco Lobito 100 MX, Pursang 125, 175, 200, 250, 350, 360; Sherpa T250, T350; 250 MX GP, 360 MX GP

Can Am 250MX, 250 Enduro

Cooper 250 MX Enduro, 250 MX GP CZ-Jawa

125 MX, 175 Enduro, 250 MX, 400 MX, 250 MX GP, 400 MX GP DKW 125, 175 MX Enduro

Harley Davidson SX-125, SX-350 Hodaka

ACE-90, ACE-100, 100 Dirt Squirt

Husqvarna 175 MX GP, 360 MX GP

Kawasaki G-4 100, F-6 125, F-7 175, F-8 250, F-11 250, F-9 350, F-8 1M 250, 100, 125 MX, 250, 400 MX

Maico M 125, 250, 400, 450, 501 MX; 250, 400 GP

Monarch 125 MX, 125 ISDT Replica Montesa 247 Cota Picnic, 247 Cota, 250 King Scorpion Trail, 247 Cota Trails, Cota 172 Trails, Capra 250 MX, 250 VR, V75 MX250

Ossa 250 Trails Penton 125, 175 MX GP, 175 Enduro/GP, 250 MX/Enduro

Puch 125, 175 MX, 125, 175 Enduro Rickman 125 MX 6 days Suzuki TS-100, TC-100 RL-250 Exacta Triumph/Norton/Villiers 441 Victor Special MX, B-50 MX Victor

Yamaha MX125, 125 YZ, MX175, YZ175, DT250B, DT400B

Yankee 500Z BMW 500, 600, 800, 900 Harley Davidson SS 350 Kawasaki S3-400, 750 Mach IV,

H-2 750 Montesa Rapida 250 Moto-Guzzi Ambassadar 750

Triumph/Norton/Villiers 250 Starfire, Gold Star, 441 Shooting Star, 500 Royal Star, 600 Lightning, Thunderbolt, 750 Rocket III, 500 Tiger, Daytona, 650 Bonneville, 750 Trident, 750 Hurricane, Norton Comando 750, 850, John Player Special

131/2" SHOCKS A.J.S.

250 Y40, 370 Y50 Stormers Bultaco Alpina 125, 175, 250, 350

Hodaka 100-Super Rat, 125 Super Combat, 125 Wombat, 125 Combat Wombat Honda XL100, XL125, XL175,

LX250, LX350 Husqvarna 250 MX GP Kawasaki 250GP MX, 400 GP MX

Ossa 125, 175 Phantom, 175 Phantom MX, 175 Super Pioneer, 250 Desert Phantom, 250 Super Pioneer, 250 Explorer, 250 Plonker, 250 Phantom

Penton 250 MX GP Med. Comp-cant. Suzuki TS-250, TS-400, TM-100 MX, 250 MX GP, 400 MX GP Triumph/Norton/Villiers 500 Victor MX JS Stormer 250, 410 MX

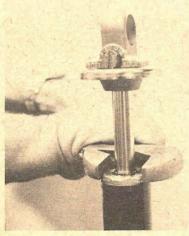
14" SHOCKS Hodaka 250 Enduro Honda CR125, MT125, CR250, MT250, MR175, MR250 Laverda 750 SF, 750 SSC, 1000 Suzuki TM 250, 400 MX

	SPRING RATE	ARNACO	BETOR	BOGE	CURNUTT	GIRLING	HONDA	11/4/4	KONI	W	RED WING	2 % W	TELESCO	уамана
	45	1			95% of all	White-Blue		Length	Measurement	Lbs.	7.00	45-70 P. Gold		MX—250
	50			Gold	Curnutt Shocks	Yellow-Blue		7.1/4"	185 x 17mm	95		SilverGold		360 SE 500
	55				use a 45/65 P			7.1/4"	185 x 22.5	126			Red	White 90 lbs
	60	Blue	Light Blue 60-90 P.°		spring that varies in length.	60-90 P., 8.0" Green-Purple		8·7/16" 8·7/16"	215 x 14 215 x 20	78 112		Plain, 60-90 P., 9.0"—Gold-Gold 60-90 P., 9.5"—Brown-Gold	Text.	MX-125 1973 thru 19 66 lbs.
-	65		Red		Pre-load changes action	60-90 P., 8.1" Green-Orange	7.34	8-11/16"	220 x 11	62		Gold-Red-Gold		MX-100 No color
Ì	70		1		and can be up to	70-100 P. —	-	8-11/16"	220 x 25	140	1000	70-100 P. Gold-Gold-Gold		.65 lbs.
L	70				3 inches	Green-Pink	14	9.1/2"	240 x 9.5	52		70-100 P. Gold-Gold-Gold	3543	YZ 250A YZ 360
	75	Green		Red	shocks.	Yellow-Yellow	1,5	9.1/2"	240 x 14	78		Yellow-Yellow (Girling), 7.5"—Gold-Green 9.0"—Gold-Blue, 9.5"—White	Green	68 lbs.
	78			White	springs are bright	Yellow-Green		Measure	NOTE: ments are taken f	om			17.7%	80/145
L	80		1 4	80-100 P. Orange	red.	Yellow-Red		center of co	il to center of ne		Section.	THE PERSON NAMED IN COLUMN		NOTE:
	82	100	11770	0				occ .	nustration below.			Gold-White		Most Yamaha
	88		TO A		- X	Yellow-White	13.0				In Rebuild 5	Yellow-White (Girling)	13	springs are not
	90	Red		Yellow 90-120 P. Silver		Bue	8.0" Green-Yellow 9.4" Green-White				Rates In		Yellow	color code You mus know mod to know
	96				-	Green-Red					d Wing			poundag
	100	Orange	N.A.			7.4" Green-Blue 8.4" Green-Green		\cdot\			See Red	Purple-Gold, Green-Green (Girling)		
	110		Dark Blue			8.0" Red-Red 8.4" Pink-Purple 9.4" Red-White		7				4.00	White	
	120		Green			Red-Green			8					
	125		1		Carre		THE	-				Red-Gold	CHAIL I	
	126				13 5	Red-Yellow					7 %	Red-Yellow-Gold (Girling)	200	
	135		A-60	Purple								9.0"—Gold-Blue-Gold 9.5"—Gold-Pink-Gold		
	150		الازريا	Pink		TO SERVE			TV TV				44	
	250			None	100			100			7	The state of the s		

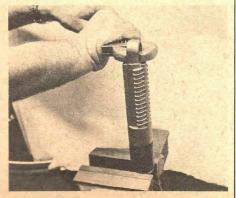
ARNACO



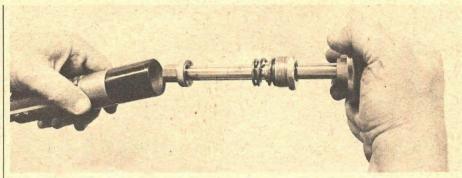
INSTRUCTIONS: DISASSEMBLY/ASSEMBLY. DISASSEMBLY — Remove load spring after prying lock tab on spring retainer (if engaged) and rotate counterclockwise about 90°.



Secure lower mount of unit in vise and unscrew 1¼-inch packing nut from top of body.



Or to prevent slipping, put cap nut in vise and turn body.



Pull top mount, shaft, and piston assembly from cylinder, and empty fluid.



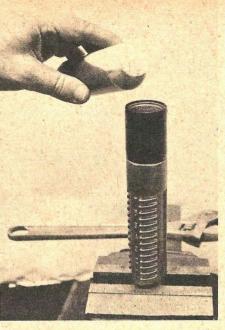




Remove packing nut assembly from shaft. This is adequate disassembly for normal servicing.



REASSEMBLY—Wash all parts thoroughly in good grade solvent. Coat all surfaces of seal with cup grease. Install packing nut over wrench flats and rotate while pushing over shaft.





Fill cylinder with 2nd SUSPENSION Damping Fluid to the level indicated on Fluid Level Indicator for length of suspension unit.

SPECIAL SERVICE FOR OLDER UNITS

As a special service for early customers, ARNACO will rebuild and update older units to new, Super-2ND specs with Kal-Gard finished, pressure-tested cylinders and relieving pistons at a cost of approximately \$25 per pair plus shipping. Damaged parts needing replacement will be billed at prevailing prices. Send dampers only, no load springs, please. Enclose \$15, balance shipped C.O.D.

DAMPING FLUID AND REBUILDING KITS

REBUILD KIT contains all seals, damping fluid and level indicator needed to service two damper units. \$10.75 SEAL KIT contains complete set of seals for two units. \$7.75 DAMPING FLUID, 4 oz. size \$1.00-8 oz. \$1.75

	PART LIST	A L	
Part #	Part Name		Price
550020	Cylinder		\$10.05
550016	Spring-top/bottom		.85
550021	End fitting		4.75
550009	Shaft		12.05
550008	Adjust. rod		2.25
100532-006	O-ring		.20
550025	Washer-top		.95
550022	Cam		2.55
550010	Ring retainer		.60
550002	Nut-Bearing assem.		7.10
550099	Seal		.60
550011	Wiper		.60
550012	Spring-top-bottom		.95
100532-023	O-ring		.35
550005	Piston		5.05
550084	Teflon		1.25
550006-13/35	Poppet		.60
550007	Spring-poppet		.50
550015	Guide		1.20
550092	Washer cup		1.20
	Extension springs		3.63
	Mounting bushings		1.25
	Load springs		7.25
	Seal kit		7.50
	Rebuild kits		10.50
		ith packing	
	hock absorbers		59.90
	tandards		64.50
	5 & 14.0 specials		69.50
	rebuild		17.85
	from standards		29.50
Damping units I	ess springs		45.38
		(2)	49.48
251	The second second	(3)	54.98
Damping units I	ess springs/grommets		
No. of the last		(2)	44.48
The street		(3)	49.94

NOTE: Old-style removable seals being replaced with new cap containing non-removable improved seal. New caps fit old style shocks with no modifications needed.



Reassemble in reverse order of disassembly.

ARNACO REFERENCE GUIDE

Part Numbers for Popular Makes and Models

MAKE/MODEL	PART NO.	MAKE/MODEL	PART NO.	MAKE/MODEL	PART NO.
AJS		CB125 S2	120-RR-60	125 Six Days	130-JB-60
250	130-GG-75	CR125 M1	140-HH-60	175 Jackpiner	130-JB-75
BSA	AVE TO THE	MT125 K-1	140-HH-60	250 Hare Scrambler	130-JB-75
250	130-FF-75	SL125	S140-BS-75	400 Mint	130-JB-75
500	R125-MM-90S	TL125 K2	140-SK-75	PUCH	
650	R130-CC-100	XL125 K-1	130-HH-60	125	130-HH-75
BMW	- Carlotte Maria	XL175 K-2	130-HH-75	175	130-HH-75
R-50/5, R-60/5, R-75/5	R130-LL-110	CB200 T	120-YX-75	RICKMAN	
BULTACO		CR250 M MT250 K-1	140-HH-75/75XS 140-HH-75/75XS	100, 125 Enduro	130-FF-75
125	130-UU-60	XL250 K-2	135-HH-75	125MX	120-FF-60S
125 Sherpa T	130-UU-40/75XS	XL350 K-1	135-HH-75	250MX	130-MX-75
175	130-UU-75	CB360 T	H125-YX-90	Mark III	130-FE-90
250	130-UU-75	CL360 K-1	H125-YX-90	Mark IV	120-FE-90S
350	130-UU-75	CB400 F	H125-YX-90	SUZUKI	A PER STATE OF
360	125-TQ-90S/75XS	CB500 T	H125-YX-90	TM100	140-RR-60
CAN-AM		CB550 K-1	H125-YX-90	TS100	130-RR-60
All	125-BB-75	CB750 K-1—K5	H135-YX-110	TM125	140-RR-60
CARABELA	100 55 750	HUSQVARNA		TS125	125-RR-60
125	120-EE-75S	250	120-FF-75S	TC185 TS185	125-RR-60 125-RR-60
250	120-EE-75S	360	120-FF-75S	GT185	R120-RR-75S
COOPER	100 111 75	400	115-FF-75	GT250	R120-RR-75S
250 Enduro	130-MM-75	450	120-FF-75S	TS250	135-RR-75
CZ		INDIAN		TM250	140-RR-75
250	130-BB-60	ML-100	120-HH-60	GT380	R120-RR-75
400	130-BB-75	ME-100,-125	130-HH-60	TM400	140-RR-75
DALESMAN		/ MT-100,-125	130-HH-60	TS400	135-RR-75
All	130-FF-60	MI-175	130-HH-75	T500	R120-RR-90
DKW		The state of the state of		GT550	R120-RR-90
125 (front)	F160-BG-60/75XS	KAWASAKI		GT750	R120-RR-110
(rear)	120-HH-75S	G-3, G-4, G-5 100	130-VV-60	All MX models	130-RR-75 or 90
125 Hornet	120-HH-75S	KS-125	125-QG-75	TRIUMPH	
DUCATI		F-7 175	125-VG-75	250	125-MM-75S
160	120-RR-75S	F-11 250 S-1 250	130-QQ-90 125-VG-175	500	130-FF-90
250	125-UU-75S	F-9 350	130-VG-90	650	R120-MM-110
450 R/T	125-FF-90S	KZ 400	125-VG-75	750	R130-MM-110
GREEVES		S-3 400	125-VG-75	YAMAHA	
175	130-FF-75S	H-1 500	R125-VG-75	RD100	130-W-60
250	120-FF-75S	H-2 750	R130-VG-75	DT100	120-JJ-60
380	120-FF-75S	Z1 903	R135-VJ-110	MX100	120-JJ-60
HARLEY-DAVIDSON		MAICO		RD125	R130-VV-75
65 Leggera	110-GG-60S	250MX	125-BB-75S	DT125	120-JJ-75
65 Sportster	110-GG-60S	400MX	130-BB-90/75XS	MX125	130-JJ-75 130-JJ-75
100	130-JJ-75	450MX	130-BB-90/75XS	YZ125	R130-VV-75
TX125	130-JJ-75	501MX	130-BB-90/75XS	RD175 DT175	130-JJ-75
SS350	120-JJ-90S	('75 Mid-Shock models u		MX175	130-JJ-75
XR750	R125-DD-90	MONARK		RD200	R130-VV-75
900 Sportster 1200 (74)	H-D140-WW-110L H-D140-WW-110L	125MX, 6-Days	130-AA-60	RD250	R125-W-75
	11-0140-111110	MONTESA		DT250	130-JJ-90
HODAKA	120 DD CO	250	125-UU-75S	MX250	130-JJ-90
100 (All)	130-RR-60	NORTON	120 00 700	RD350	R-125-W-75
125 (All)	130-RR-75	750 Commando	R125-GG-110	MX360	130-JJ-90
HONDA	105 1/1/ 000	850 Commando	K125-GG-110	DT400	130-JJ-90
MR50	105-KK-60S	Roadster, l'state	R125-GG-110	XS500	130-VV-90
C70M XL70 K-1	130-UU-60S	OSSA (Constant)		MX500	130-JJ-90
XR75	110-MU-60 110-UU-60S	Stiletto	120-UU-75S	XS650	R130-W-110
XR75 K-2	110-MU-60S	250	130-UU-75	YANKEE	
CT90	130-UU-75S	250 Six Days	135-UU-75	500 'Z'	130-RR-75
10008	120-SS-75S	(No sleeves in grou		NOTE: For 1975 models with	
100, SL100	130-55-605	PENTON	4-19-19-19-19	ing, substitute letter 'Y' as	
	Total Or Party	TENTUN		IIIR. SUNSTITUTE LETTEL 1 42	HIST LETTER HIL DALE

The information on this page explains the codes for the ARNACO parts numbers. By following the steps outlined below, you can order suspensions for any vehicle not listed on the inside pages.

(1) The first three digits describe the eye-to-eye center measurements in 1/2" increments. For example:

120 = 12" eye-to-eye

 $125 = 12\frac{1}{2}$ " eye-to-eye 130 = 13" eye-to-eye, etc.

(2) The FIRST letter identifies the TOP bushing dimensions. The SECOND letter identifies the BOTTOM bushing dimensions. Both are according to the table at the right.

(3) The last digits describe the load spring rate. SHORT spring length is indicated by the letter S following the spring rate digits. For example:

75 = 75 lb./in.

90 = 90 lb./in., etc.

To illustrate:

Model 120-AC-75 defines a 12" eye-to-eye center distance with a .316 bore X .750 long top bushing, a .356 bore X .750 long bottom bushing, and a 75 lb./in. load spring rate.

If you wanted to order a 13" eye-to-eye center distance with a .356 bore X .750 long top bushing, a .356 bore X .940 long bottom bushing, and a 90 lb./in. spring rate you would specify model no. 130-CD-90.

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		da d
	example: 120-AB-75S	
	everde et	ing and spirituate (3)
	ever lad spirit	to be defined by the state of t
	(1)	S B G
(2		
	Profes its:	1-0-

		BOR		LENG	TH	BOLT	CIZE
Sizes CO Te			MM	in.	MM	in.	MM
8 - 4				15011			
DNIHSON B		16	8	.750	19	5/16	8
HS(16	8	.782	20	5/16	8
8 C		56	9	.750	19		9
S D		78	270	.865	22	3/8	
E		78	FIFE	.822	21	3/8	
MOUNTING	.3	78		.940	24	3/8	
ž C	.39	95	10	.704	18		10
H	.39	95	10	.750	19		10
J	.39	95	10	.782	20		10
K	.39	95	10	.822	21		10
L	.39	95	10	.865	22		10
N	1 .39	95	10	.940	24		10
1	.4:	35	11	.750	19		11
P	.43	35	11	1.055	27	FUELS:	11
C		75	12	.704	18		12
R	.4	75	12	.782	20		12
S	.4	75	12	.822	21		12
T	1.4	75	12	.900	23		12
U	.4	75	12	.940	24		12
V	.5!	55	14	.822	21		14
M	1 .6:	25	16	1.430	36.5	E HEAT	16
X	.6:	25	16	1.055	27		16
Y	YC	OKE T	YPE	.750	19		10
Z	YC	KET	YPE	.782	20	DE BE	10

SPECIAL APPLICATIONS

Referring to the schematic drawing above, if your suspensions are run in the steeply angled position A, use of the 110-lb. spring is recommended, along with poppet M5. If a mid-shock mounting as shown in B is used, the normal spring should be adequate, but perhaps will be preferred with additional pre-load. If distance D is 1-4 inches ahead of the usual mount near the rear wheel spindle, use poppet M4. For distance D of 5 inches or more, poppet M5 should give greatest satisfaction. Angle C is the normal mounting and no special suffix for poppet specification need be added to the basic part number. Order these items by the basic parts code, plus poppet, as: 130-BJ-110 (M5).

RELATION OF STROKE (TRAVEL) TO OVER-ALL UNIT LENGTH

The following strokes are available for the overall lengths listed, Please specify where doubt exists. Note: Greater stroke is not always desirable where clearance for tires may be a problem!

	Model	No.	Length	Stroke
H	090		9 inches	2 inches
	095		9½ inches	2 inches
	100		10 inches	2 inches
	105		10½ inches	3 inches
	110		11 inches	3 inches
	115		11½ inches	3 inches
	120		12 inches	3.5 inches*
	125		12½ inches	4 inches*
	130		13 inches	4 inches
	135		13½ inches	4 inches*
	140		14 inches	43/4 inches
	160		16 inches	4 or 4½ ins.

^{*}Also available on order with 31/2 inches.

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The top of the shock will now slide off and you can re-secure it in the bottom fork leg. Now use a screwdriver to move the dust cover down and slip a 17mm wrench onto the jam nut.



Remove the jam nut that holds the shock assembly together.

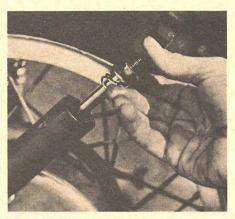
All pieces that wear are among those found in the kit. You need purchase nothing else other than shock fluid.

REBUILDING BETOR SHOCKS

While it's always best to rebuild a shock under the cleanest possible conditions, you still might have to do a quick job in the field. As long as reasonable care is taken, and dirt is kept out, you shouldn't have any problems. This Betor was rebuilt not only in the field, but on the bike. If you don't have a vise, then the swingarm of your bike can be used to hold it while you work on the unit.



While holding the jam nut you can turn the top of the shock off with Channel locks.



You'll find the seal, seal tensioner, and spring. They come off next!



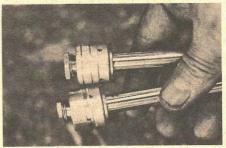
Use a small screwdriver to pry out the O-ring. A new one is included in the kit.



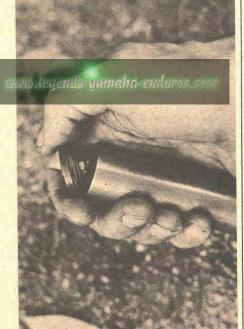
Hold the shock housing with one hand, grasp the rod with the other and remove the piston assembly.



Force the inner cylinder to the side with your fingers and it will put out easily.



The new piston has a ring. The older one is grooved. Progress.



There's a valve at the bottom of the cylinder and it is replaced by one included in the kit. These pieces snap together with just a little pressure.



Put the cylinder with its new valve back in the shock housing and fill the center of the cylinder with fluid (3 oz.) until it spills over a tiny bit.



Slide in the new piston and rod assembly, then the upper cylinder block, rebound spring, tensioner cup, tensioner, spring (new), and seal (new).



In goes the O-ring and the top nut is secured with a pair of Channel locks. You don't need to overtighten.



Run the 17mm jam nut on the shaft to the bottom of the threads; slide on the spring and dust cover.



The dust cover slips under the 17mm nut and you can hold the shaft with a 10mm wrench.



Run the top piece of the shock on with your fingers, then catch the 17mm nut. The old shock rod is a good tool for tightening. Replace all the mounting rubbers and bushings supplied in the kit and you've done it.

BOGE





Place head of shock in a vice or insert a punch through the eyelet to hold shock steady and place 13mm (1/2" or 11/16") wrench on top retaining nut.



Loosen retaining nut counterclockwise. Rotate shock in holding device and remove eyelet, washer, nut, and rubber bumper.

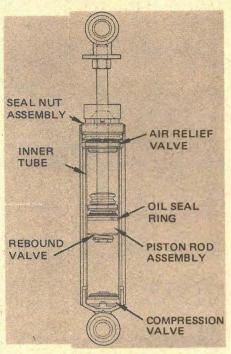


Depress piston rod assembly to lower position. Place one inch flat bottom socket on seal nut assembly and remove in counterclockwise direction.

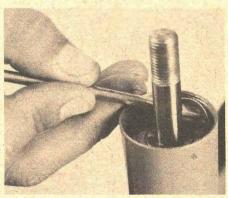
CAUTION: Do not use adjustable type wrench for this step or serious damage may occur to the seal nut.



Slide nut seal assembly up piston rod until it reaches threaded section and carefully twist off from that point. Be careful not to damage nut seal if it is to be reused.



BOGE SHOCKS

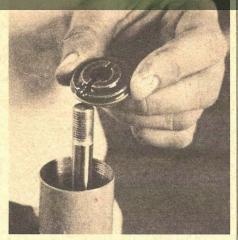


Carefully unseat and remove "O" ring by hand or with a small screwdriver. CAUTION: Do not damage setting guide or "O" ring during removal.



Pull complete piston assembly enough to expose the inner valve tube. Hold the valve tube and slide the steel "O" ring guide setting off.

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Slide rod guide off while holding the inner valve tube.

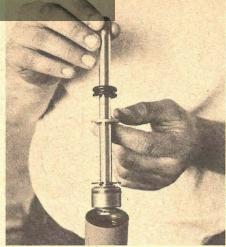


Carefully pull piston rod assembly out of the inner valve tube. Place rod assembly aside until completion of next step.



After removal of piston rod assembly. Pour out old shock fluid from inner valve tube and shock body reservoir. Clean and dry all parts thoroughly.

If you need to replace the piston rod assembly be sure to remove the inner rubber stop and washer seat from the piston rod and place them on the new piston rod.



Compression valve replacement can be done at this point. Bottom the piston rod once or twice on the compression valve and it will come out.

Before re-assembling your shock, be sure to measure a predetermined amount of Mulholland Hydro-Damp Fluid as recommended for your shock size. Consult the following fluid chart for the appropriate measurements.

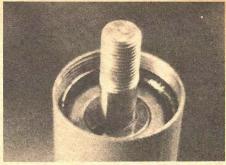
SHOCK NO.	AMOUNT
MX 1075	. 74cc ± 2
MX 1175	. 87cc ± 3
MX 1225	. 95cc ± 3
MX 1300	. 98cc ± 3
MX 1350	110cc ± 3
MX 1400	122cc ± 3
SS 1175	. 87cc - 3
SS 1225	. 95cc ± 3
SS 1300	110cc ± 3
SS 1350	117cc ± 3
SS 12608	. 91cc ± 3
SS 12610	. 91cc ± 3
SS 13308	105cc ± 3
SS 13310	105cc ± 3
SS 13010	100cc ± 3

Fill the inner valve tube approximately 3/4 full and pour the remainder of the measured Hydro-Damp Fluid into the shock body reservoir.



Place assembly into shock body. Be careful not to spill Hydro-Damp Fluid. Place rod guide on piston rod. Slide down and position in top of the inner valve tube.

Place the steel "O" ring setting on the piston rod and center over the rod guide. Push assembly down into shock body to seat.



Lower the rubber "O" ring into the shock body. Make certain that it is down flush on the rod guide and is below the inner threads.



Place bullet head tool over piston rod threads and lubricate with grease. Slide the seal nut assembly down into place and screw down by hand.



Using a torque wrench and one-inch flat bottom socket tighten the seal nut assembly down to 40 ft./lbs. torque maximum.

Place the rubber bumper on the shaft. Use some Lock-tite or equivalent on the locking nut and screw onto the shaft.



Place top eyelet assembly on the shaft and tighten down. Use a vice or a punch to hold the eyelet and lock the holding nut against the eyelet with a 13mm wrench.

BOGE SHOCK SPECS

					STOCK			K SPECS				STOCK		
	MAKE & MODEL	YEAR	PART NO.	SPRING RATI		ADDITIONAL PART	TS REQUIRED	MAKE & MODEL	YEAR	PART NO.	SPRING RATE SUGGESTED	PISTON ROD VALVE	ADDITIONAL PARTS REQUIRED FOR SPECIAL SETTINGS	2
	A.J.S. • 250-Y40 Stormer	69-73	MX1350	6090 PR	PR188S			* KZ-400 750 Mach IV, H2-750	All	SS1225 SS1300	80100PR 90120PR	PR178M PR178M		
	370-YS0 Stormer AMERICAN EAGLE	69-73	MX1350	78STWD	PR188S			Z1-900 Z1-900 Police	All	SS1350 SS1350	120STWD 135STWD	PR178M PR178M		
13	125-CMX R2 125-Trails	70-73 73	MX1225 MX1300	6090 PR 6090 PR	PR181S PR188S			LAVERDA 750 SF, 750 SSC	73.75	MX1400	120STWD	PR188S	PR188M	
	250-CMX R2 400-TMX R2	70-73 72-73	MX 1225 MX 1225	6090 PR 7BSTWD	PR181S PR181S	A.e. Y		1000 MAICO	75	MX1400	120135P	PR188S	PR188M	
	BENELLI 500 Quatro 750 SEI	All	SS1225	110STWD	PR178M	10-6		M125 MX M250 MX	72-73 Ail	MX1300 MX1300	6090 PR 78 STWD	PR188S PR188S	BU14-0B/8U12-08	
	750 SEI BMW	All	SS1225	120STWD	PR178M			M400 MX M450 MX	AII 74	MX1300 MX1300	78 STWD 78 STWD	PR188S PR188S	8U14-08/8U12-08 BU14-08/BU12-08	1
	500, 600, 800, 900 BRIDGESTONE	AII 72-74	SS1300	120STWD	PR188M			M501 MX 250, 400 GP	All Mid '75	MX1300 MX1300	80100PR 110STWD	PR188S PR188S	8U14-08/BU12-08 PR188M COV227	н
	100 GP, Enduro BUL1 ACO Lobito 100 MX	All	MX1300 MX1300	6090 PR	PR188S PR188S				and and	MX1300	120STWD	PR188S	PR188M BU14-08/BU12-08	FIR
3	Pursang 125, 175 Alpina 125, 175	All 73-74	MX1300 MX1300 MX1350	6090 PR 6090 PR	PR 188S PR 188S			MONARCH 125 MX, 125 ISDT Replica	All	MX1300	6090 PR	PR188S		11
	Astro 200 TT Pursang 200	72·73 71·74	SS1225 MX1300	6090 PR 6090 PR	PR178M PR188S			MONTESA 123 Cota Trials, Picnic	All	MX1225	6090 PR	PR178S		
	Pursang 250 Alpina 250	71-74 73-74	MX1300 MX1350	78 STWD 6090 PR	PR188S PR188S			125 Capra MX 247 Cota Picnic	All 74	MX1225 MX1300	6090 PR 6090 PR	PR178S PR188S	DATE OF THE	
	Sherpa T250 Astro 250 TT	72-73 73	MX1300 SS1225	6090 PR 6090 PR	PR188S PR178M			247 Cota 250 King Scorpion Trail	74-75 All	MX1300 MX1300	6090 PR 78STWD	PR188S PR188S		
	Pursang 350 Alpina 350	71-73 73-74	MX1300 MX1350	78STWD 78STWD	PR188S PR188S			247 Cota Trails Cota 172 Trails	Atl 75	MX1300 MX1300	6090 PR 6090 PR	PR188S PR188S		
	Pursang 360 Sherpa T350	74 72-74	MX1300 MX1300	78STWD 78 STWD	PR188S PR188S			Capra 250 MX, 250 VR V75 MX250	AII 75	MX1300 MX1300	6090 PR 120STWD	PR188S PR188S	CDV227H	
	Astro 360 TT Astro 360 TT	71.73	SS1225 SS1225	6090 PR 6090 PR	PR178M PR178M	00.0004		Rapida 250 MOTO-GUZZI	All	SS1300	78STWD	PR178M		10
	250 MX GP 360 MX GP CAN AM	75 75	MX1300 MX1300	110STWD 120STWD	PR188S PR188S	PR188M PR188M	COV227H	Ambassador 750	All	SS1300	120STWD	PR178M		1 10
	125 MX, 175 MX 125, 175 Enduro	73-74 73-74	MX 1225 MX 1225	6090 PR 78STWD	PR181S PR181S			NORTON Comando 750, 850	All	SS1300	90120PR	PR178M		
	250 MX 250 Enduro	75 75	MX1300 MX1300	78 STWD 78 STWD	PR188S PR188S	PR188M PR188M	COV227H	JS Stormer 250, 410 MX John Player Special	69-73 All	MX1350 SS1300	78STWD 90120PR	PR188S PR178M		
	CARABELA 125 Caliente, Enduro	69-73	MX1225	6090 PR	PR181S			OSSA 125, 175 Phantom	75	MX1350	6090 PR	PR188S		
	200 Carrera 125 Marquesa	72-73 74-75	MX1300 MX1400	78 STWD 6090 PR	PR188S PR188S			175 Stiletto, Pion. 250 Stiletto, Pion., DMR,	69·74 69·74	MX1225 MX1225	6090 PR 6090 PR	PR181S PR181S		
	125 Enduro, 175 Enduro 200 MX	74-75 74-75	MX1225 MX1300	78STWD 78STWD	PR181S PR188S			250 Trials 175-Phantom MX	72-74 75	MX1300 MX1350	6090 PR 6090 PR	PR188S PR188S		
	COOPER 250 MX, Enduro	73	MX1225	78STWD	PR181S			175-Super Pioneer 250-Desert Phantom	75 75	MX1350 MX1350	6090 PR 78 STWD	PR188S PR188S		
	250 MX, Enduro 250 MX, GP (In development)	74 75	MX1300 MX1300	78 STWD 110STWD	PR188S PR188S	PR188M		250-Super Pioneer 250-Explorer	75 75	MX1350 MX1350	78 STWD 78 STWD	PR188S PR188S		
	CZ-JAWA 125 MX	All	MX1300	6090 PR	PR188S	BU14-08/BU12-08		250-Plonker 250-Phantom	75 75	MX1350 MX1350	6090 PR 6090 PR	PR188S PR188S	7000	
3	175 Enduro 250 MX	72·74 70·74	MX1300 MX1300	78STWD	PR188S PR188S	BU14-08/BU12-08 BU14-08/BU12-08	N. X	PENTON 125, 175 MX	70-74	MX1225	6090 PR	PR181S		
	400 MX 250 MX GP	70-74 75 75	MX1300 MX1300	78 STWD 1 10STWD	PR188S PR188S	BU14-08/BU12-08 8U14-08/BU12-08	PR188M	125, 175 Enduro 125, 175 MX-GP 175 Enduro/GP	70·74 74%·75 75	MX1225 MX1300 MX1300	78 STWO 110STWD 110STWD	PR181S PR188S PR188S	PR188M PR188M	
	400 MX GP DKW		MX1300	135STWD	PR188S	8U14-08/BU12-08	COV227H	250 MX/Enduro 250 MX-GP Med.	75 74 75	MX1300 MX1300 MX1350	80100PR 120STWD	PR188S PR188S	PR188M COV227I	.
	100, 125 MX 125, 175 MX, Enduro	71-73 74	MX1225 MX1300	6090 PR 78 STWD	PR181S PR188S			Comp-cant PUCH	/5	MX1350	135STWD	PR188S	PR188M COV2271	
	DUCATTI 750 GT, Sport	74	SS1175	110STWO	PR178M			125, 175 MX 125, 175 Enduro	70-74 70-74	MX1300 MX1300	78 STWD 78 STWD	PR188S PR188S		
1	GREEVES 175 Path Finder	71-73	MX1225	6090 PR	PR181S			RICKMAN						
	250 MX Griffon 250 Desert Griffon	71.74 71.74	MX1175 MX1175	6090 PR 6090 PR	PR173S PR173S			125 MX, 6 Days 250 MX	70.74 70.74	MX1300 MX1225	6090 PR 6090 PR	PR188S PR181S		
	380 MX Griffon, Desert HARLEY DAVIDSON	71-74	MX1175	78 STWD	PR173S			ROKON 134 Trail	All	MX1225	6090 PR	PR181S		1
	SR-100 Baja TX 125	71-74 73	MX1225 MX1225	6090 PR 78 STWD	PR181S PR181S			RT 340 Enduro SUZUK1	Att	MX1225	80100PR	PR181S		
	SX 125 SX 175	74-75 74-75	MX1300 MX1225	78 STWD 7 8 STWD	PR188S PR181S			TS-100, TC-100 TS-125, TC-125	AII AII	MX1300 MX1225	6090 PR 6090 PR	PR188S PR181S		
	SX 250 SX 350	74-75 73-74	MX1225 MX1300	78STWO 80100PR	PR181S PR188S			TS-185 TC-185	All	MX 1225 MX 1225	6090 PR 78STWD	PR181S PR181S		
	SS 350 XL 1000, XLCH 1000	73-74 All	SS1300 SS14500	80100PR C250STW	PR178M			TS-250 TS-400	All	MX1350 MX1350	78STWO 800100PR	PR188S PR188S		
	FXE 1200, FX 1200. FLH 1200 HODAKA	All	SS14020	C250STW				TM-100MX TM-125 MX	All	MX1350 MX1400	6090 PR 6090 PR	PR188S PR188S		
	ACE-90 ACE-100, 100 Dirt Squirt	All	MX1300 MX1350	6090 PR	PR188S PR188S			TM-250 MX TM-400 MX	All	MX1400 MX1400	78 STWD 78 STWD	PR188S PR188S		
	100-Super Rat 125 Wombat, 125 Combat Wombat	All /	MX1350 MX1300	6090 PR 6090 PR	PR188S PR188S			RL-250 Exacta 250 MX GP	74-75 75	MX1300 MX1350	6090 PR 120STWD	PR188S PR188S	PR188M CDV227F	
	125-Super Combat 250 Enduro	74-75 Mid '75	MX1350 MX1400	6090 PR 78 STWD	PR188S PR188S			400 MX GP GT-185	75 All	MX1350 SS1175	135STWD 78STWD	PR188S PR173M	PR188M CDV227F	1
	HONDA CL 100 K1/K2, CB/CL 125 SL	70-75	SS1225	6090 PR	PR178M	Market Market		GT-250 GT-380 GT-500	All All	SS1175 SS1175 SS1175	80100PR 80100PR	PR173M PR173M		
	XL 100, XL 125 XL 175	70.75 73.75	MX1350 MX1350	6090 PR 78 STWD	PR188S PR188S			GT-550 *GT-750	All All	SS1175 SS1175 SS1175	90 STWD 90120PR 120STWD	PR173M PR173M PR173M		
3	XL 250 XL 350	All	MX1350 MX1350	80100PR 90 STWD	PR188S PR188S			TRIUMPH B-50 MX Victor	All					
	CR 125, MT 125, CR 250 MT 250	All All Mid 75	MX1400 MX1400	6090 PR 78 STWD	PR188S PR188S			500 Tiger, Daytona 1 650 Bonneville	All	MX1300 SS1300 SS1300	80100PR 90 STWD 90120PR	PR188S PR178M PR178M		
	MR 175, MR 250 CB/CL 175	Mid 75 All and	MX1400 SS13308 SS12608	78 STWO 78 STWO	PR188S PR178M PR178M			750 Trident 750 Hurricane	All All	SS1300 SS1300	120STWD 120STWD	PR178M PR178M		luros.c
	CB 200 St. 350	74-75 71-72	SS12608 SS13310	80100PR 80100PR	PR 178M PR 178M		.,	TRIUMPH/NORTON/VILLIERS BSA						1
1	CB/CL 350, CB 360G, CL 360, F-400 *CB/CL 450, CB 500, CB 550	All All	SS12610 SS12610	80100PR 90120PR	PR178M PR178M			250 Starfire, Gold Staf 441 Victor Special MX	All All	SS1300 MX1300	6090 PR 78STWD	PR178M PR188S		
1	May require modifications in the mud ch	nain guard.					1919	441 Shooting Star 500 Royal Star	All	SS1300 SS1300	80100PR 90120PR	PR178M PR178M		
	CB 1000 (In development)	All and Mid 75	SS13310 SS13010 SS13310	120STWD	PR178M PR178M PR178M		The same	500 Victor MX 600 Lightning, Thunderbolt	AII	MX1350 SS1300	90 STWD 90120PR	PR188S PR178M		
	HUSQVARNA 125 MX	Mid '75	SS13310 MX1175	136STWD 6090 PR	PR178M			750 Rocket III YAMAHA	All	SS1300	120STWD	PR178M		
	175 MX 175 MX-GP	74 75	MX1175 MX1175 MX1300	6090 PR 110STWD	PR173S PR173S PR188S	PR188M	No.	DT100, LT2, LT3 100 Enduro	All	MX 1225	6090 PR	PR181S		1
	250 MX 250 Enduro	69.74 73.74	MX1175 MX1175	78 STWD 80100PR	PR 173S PR 173S	- n Toom		DT125, AAT2, AT3 125 Enduro DT175 DT250	All	MX1225 MX1225	6090 PR 6090 PR	PR181S PR181S		
	250 MX-GP	75 and	MX1350	120STWD 110STWD	PR188S	PR188M PR188M	COV227H	DT250 DT360 DT400	All All	MX1225 MX1225 MX1225	78 STWD 78 STWD 78 STWD	PR181S PR181S		1
	360 MX 360 Enduro	70·74 73·74	MX1175 MX1175	78 STWD 80100PR	PR173S PR173S	-		MX100 MX125, YZ125	AII 71-74	MX1225 MX1225 MX1225	6090 PR 6090 PR	PR181S PR181S		
	360 MX-GP	75 and	MX1300	120STWD 135STWD	PR188S	PR188M PR188M	CDV227H	MX125, YZ125 MX175, YZ175	75 72-74	MX1225 MX1300 MX1225	6090 PR 6090 PR	PR181S PR188S PR181S	7	
	400MX 450 M X, 450 Desert Master	73.74 73.74	MX1175 MX1175	78 STWD 80100PR	PR173S PR173S		1	MX175, YZ175 DT250-8, DT400-8	75 Early 75	MX1300 MX1300	6090 PR 78 STWD	PR188S PR188S	The state of the s	
1	G4-100 G5-100 KS-125	All	MX1300	6090 PR	PR 188S			TY250 RS100, RD125	72-74 All	MX1225 SS12608	6090 PR 6090 PR	PR181S PR178M		
1	G5-100, KS-125 F6-125, F7-175	All	MX1225 MX1300	6090 PR 78 STWD	PR181S PR188S			RD200 RD250	All	SS12608 SS1225	6090 PR 78 STWD	PR178M PR178M		
1	F8 250, F11-250 F9-350 F9-350	AII 74-75 72-73	MX1300 MX1300 MX1300	78 STWD 80100PR 78STWD	PR188S PR188S PR188S		177	RD350 XS500, TX500	All	SS1225 SS1225	B0100PR 90 STWD	PR178M PR178M		
1	G3-100 F8-1M 250	72-73 72-73	MX1225 MX1300	6090 PR 78 STWD	PR181S PR188S			XS650, TX650	All	SS1225	90120PR	PR178M		
	100, 125 MX 250, 400 MX	74-75 74	MX1300 MX1300	6090 PR 78 STWD	PR188S PR188S		1.00							
	250 GP MX, 400 GP MX G3-100	Mid 75 74-75	MX1350 SS1225	120STWD 6090 PR	PR188S PR178M			YANKEE 500-Z	All	MX1300	80100PR	PR188S		18
1	\$1-250 \$2 350 Mach II \$3-400	All	SS1225 SS1300	80100PR 80100/PR	PR178M PR178M			ZUNDAP 125MX, Enduro	All	MX1225	78 STWD	PR181S		
1	500 Mach IT, H1 500	All	SS1225	90 STWD	PR178M			*May require modifications in the muid	chain guard	111	2.17	V Jacob		

Motorcycle Shocks General Information and Components

Group Motocross Minicycles Universal Motocross Universal	Fully Extended 10-3/4"	Dist. of Bushing Mount 12mm or 14mm	Dia. Bushing or Clevis Bolt Dia.	Maximum Free Stroke	LENGTH And Part Number	Rebound Action Control	Compression Action	On CM ³		Valve	Part Number/General Personwend of the Ear Different Demains Cartings
Minicycles Universal Motocross			12mm	07		Common	Control	On CM-		Settings	Part Number/General Recommended Use For Different Damping Options
	11-3/4"			67mm 2.64"	160mm PR171S	SOFT (Optional Kits: Medium Only)	SOFT (Optional: Hard)	74cc ± 2	50 ST	MEDIUM HARD COMP.	PRI71S Off-road riding – MX and enduro racing – Desert racing PRI71M MX racing w/GP froward shocks, Increase preload to max. flat track & T.T. COV22PH GP floward setting, Velight of rider over 120 lb.
		12mm or 14mm	12mm	77mm 3.03"	173mm PR 173\$	SOFT (Optional Kits: Med. and Hard)	SOFT (Optional: Hard)	87cc ± 3	All Universal 41.5 I.D. *228 & 238mm High (9" & 9.4" H)	MEDIUM HARD HARD COMP.	PRI32S Off-road riding – MX, enduro and desert racing. PRI32H MX scaing/EPF flower of crantilever shocks and/or springs over 90 lbs./inch. PRI32H Use only when extreme rebound control needed. Shall use over 90 lbs. springs. CnV 227H Some 'GP' forward settings, Prevents over-spring conditions. May use softer springs.
Motocross Universal	12-1/4"	12mmor 14mm	12mm	85mm 3.4"	181mm PR181S	SOFT (Optional Kits: Med. and Hard)	SOFT (Optional: Hard)	95cc ± 3	All Universal 41.5 I.D. *228 & 238mm High (9" & 9.4" H)	MEDIUM HARD COMP.	PRIBIS PRIBIM PRIBIH Same as Above COV227H
Motocross Universal	13"	12mmor 14mm	12mm	92mm 3.7"	188mm PR188S	SDFT (Optional Kits: Med. and Hard)	SDFT (Optional: Hard)	98cc ± 3	Atl Universal 41.5 t.D. *228 & 238mm High (9" & 9.4" H)	MEDIUM HARD COMP.	PR1885 PR188M PR188H Same as Above COV227H
Motocross Universal	13-1/2"	12mmor 14mm	12mm	92mm 3.7"	188mm PR1 88S	SOFT (Optional Kits: Med. and Hard)	SOFT (Optional: Hard)	110cc ± 3	All Universal 41.5 I.D. *228 & 238mm High (9" & 9.4" H)	MEDIUM HARD HARD COMP	PR188S PR188M Same as Above COV227H
Motocross Universal	14"	14mm	12mm	92mm 3.7"	188mm PR188S	SOFT (Optional Kits: Med. and Hard)	SOFT (Optional: Hard)	125cc ± 3	All Universal 41.5 I.D. *228 & 238mm High (9" & 9.4" H)	SOFT MEDIUM HARD HARD COMP.	PRI 1885 PRI 188M PRI 188H Same as Above COV27H
Super Sport Universal	- 11-3/4"	14mm	14mmor 12mm	77mm 3.03"	173mm PR 173M	MEDIUM (Optional Kits: Soft and Hard)	SOFT (Optional: Hard)	87cc ± 3	All Universal 41.5 l.D. *228 &238mm High (9" & 9.4" H)	SOFT MEDIUM HARD HARD COMP.	PRISSS On road riding Road racing T.T. rough tracks. European type R.R. – Springs under 90 lt PRISSM On road riding, Road racing, Dirt track – T.T., S.T., 1/2 and 1 mile, High banks, T.T. PRISSH Some indoor 'Blue Groove'. Accord dry. COV227H Drag racing, Road riding or racing when heavyweight factor & wishes to keep light springs
Super Sport Universal	12-1/4"	14mm	14mmor 12mm	71mm 3.03"	178mm PR178M	MEDIUM (Optional Kits: Softand Hard)	SOFT (Optional: Hard)	95cc ± 3	All Universal 41.5 I.D. *228 & 238mm High (9" & 9.4" H)	SOFT MEDIUM HARD HARD COMP.	PR173S On road racing. Road racing on rough tracks: European type circuits – Springs under 90 II PR173M On road riding. Road racing, Dirt tracks – Ft., S. Tik., I/2 and 1 IIIe. High banks, TO PR173H Some indoor 'Blue Groove'. Ascot dry. COV227H Drag racing, Road riding or racing when heaveweight factor and wishes to keep light sprin
Super Sport Universal	13"	14mm	14mm or 12mm	. 77mm 3.03"/	178mm PR178M	MEDIUM (Optional Kits: Soft and Hard)	SOFT (Optional: Hard)	110cc ± 3	All Universal 41.5 i.D. *228 & 238mmHigh (9" & 9.4" H)	SOFT MEDIUM HARD COMP.	PR1785 PR178M Same as Above / COV227H
Super Sport Universal	13-1/2"	14mm	14mm or 12mm	77mm 3.03"	178mm PR178M	MEDIUM (Optional Kits: Soft and Hard)	SOFT (Optional: Hard)	117cc ± 3	All Universat 41.5 l.D. *228 & 238mm High (9" & 9.4" H)	MEDIUM HARD HARD COMP.	PR178S PR178M Same as Above CDV227H -
Honda Super Sport	12.6"	16mm	CLEVIS 8mm	77mm 3.03"	178mm PR178M	MEDIUM (Optional Kits: Soft and Hard)	SOFT (Optional: Hard)	90cc ± 3	78 80/100	MEDIUM HARD HARD COMP.	PR178S Only when road racing in rough tracks. Ultra lightweight conditions. PR178H Road riding, Road racing, Road racing, PR178H Not recommended unless special modifications to chassis have been made. COV227H When heavyweight factor makes shocks to binten drown. and wishes to keep stock spring
Honda Super Sport	12.6"	16mm	CLEVIS 10mm	77mm 3.03"	178mm PR178M	MEDIUM (Optional Kits: Softand Hard)	SOFT (Optional: Hard)	90cc ± 3	80/100 90/120	MEDIUM HARD HARD COMP.	PR IZBS Only when road racing in rough tracks. Ultra fightweight conditions. PR178M Road riding, Road racing, PR178H Not recommended unless special modifications to chassis have been made. COV227H When heavyweight factor makes shocks to bottom down, and wishes to keep stock springs.
Honda Super Sport	13"	16mm	CLEVIS 10mm	77mm 3.03"	178mm PR178M	MEDIUM (Optional Kits: Soft and Hard)	SOFT (Optional: Hard)	100cc ± 3	120ST	SOFT MEDIUM HARD COMP.	PR178S When Conv. to off-road riding. PR178M Road riding, Road racing, Load racing. PR178H Not recommended. COV227H To help spring action when over weight contition.
Honda Super Sport	13-1/3"	16mm	CLEVIS 8mm	77mm 3.03"	178mm PR178M	MEDIUM (Optional Kits: Soft and Hard)	SOFT (Optional: Hard)	100cc ± 3	78 80/100	SOFT MEDIUM HARD HARD COMP	PR 178S When Conv. to off-road riding. PR 178H Road riding. Road riding. Road riding. PR 178H Not recommended. COV227H To help spring action when overweight contition.
Honda Super Sport	13-1/3"	1 6mm	CLEVIS 10mm	77mm 3.03"	178mm PR178 M	MEDIUM (Optional Kits: Soft and Hard)	SOFT (Optional: Hard)	100cc ± 3 105cc	120 ST 90/120	SOFT MEDIUM HARO HARD COMP.	PR178S Only road racing in rough tracks or utra ughtweight conditions. PR178M Road riding. Road racing. PR178H Not recommended unless special modifications performed to bike. COV227H To help spring action when over-weight condition.
MU MU SU SU SU HS HS HS HS	totocross iniversal fotocross fo	12-174 12-174 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-172 13-173 1	12-1/4" 14mm 12-1/4" 12mmor 14mm 14mm	12-1/4" 14mm 12mm 12mm	14mm 12mm 3.4" 14mm 12mm 3.4" 12mm 3.4" 12mm 3.7" 12mm 3.03" 12mm 12mm 3.03" 12mm 12mm 3.03" 12mm 3.03"	14mm 12mm 3.4" PR181S	12-1/4" 12-mm	12-1/4" 12mm 12mm 3.4" PR181S (Optional Kits: (Opt	12-144" 14mm 12mm 12mm 18mm 12mm 12mm 18mm 12mm 12mm 18mm 12mm 12mm	12-1/4" 12mmor 12mm 28mm 181mm SOFT SOFT All Universal 12-1/4" 12mmor 12mm 29mm 188mm SOFT Optional Kits: Opti	12-1/4" 12mmor 12mm 12

Motorcycle Spring Application Charts

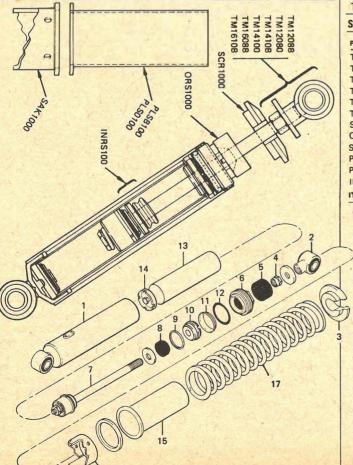
MX Shocks (All Off-Road & Dual Purpose Motoro

MOTORCYCLE	DESCRIPTION			No Table				RI	DERS WEIGHT (IN LBS.)						
WEIGHT	DESCRIPTION	UP TO 100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
UP TO 150 LBS.	MINICYCLES (Only for MX 1075 Shocks) Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Piston Rod) Valve	50 50 STWD STD. SOFT STD.SOFT	50 50 STWD STD. SOFT STD. SOFT	50 50 STWD STD, SOFT STD, SOFT	50 50 STWD STD. SOFT STD. SOFT	50 50 STWD HARD STD. SOFT										
150 TO 190 LBS.	ULTRA LIGHTWEIGHTS Spring Rate In Lbs. Part Number Second Alternative Compression (Foot) Valve Rebound (Piston Rod) Vatve				60 60 STWD STD. SOFT STD. SOFT	60 60 STWD STD. SOFT STD. SOFT	60 60 STWD STD. SOFT STD. SOFT	60/90 6090PR STD. SOFT STD. SOFT	60/90 6090PR STD. SOFT STD. SOFT	60/90 6090PR 78 STD. SOFT STD. SOFT	78 78 STWD STD. SOFT STD. SOFT	78 78 STWD 80/100 STD. SOFT STD. SOFT	80/100 80100PR STD. SOFT STD. SOFT			

The same of the same of		OV:														
	LIGHTWEIGHTS Spring Rate In Lbs.				60	60	60/90	60/90	60/90	78	78	80/100	80/100	90		The To
190 TO 225 LBS.	Part Number Second Alternative				60 STWD	60 60 STWD	60/90 6090PR	6090PR	60/90 6090PR 78 STD. SOFT	78 STWD	78 STWD 80/100	80100PR	80100PR 90	90STWD		
	Compression (Foot) Valve Rebound (Piston Rod) Valve				STD. SOFT STD. SOFT	STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD, SDFT		
A LO LA LA	MEDIUM WEIGHTS		LUIL V	- 11 TO		60	60/90	60/90	78	78	80/100	80/100	90	90 '		
225 TO 260 LBS.	Spring Rate In Lbs. Part Number					60 STWD	6090PR	6090PR	78 STWD	78 STWD 80/100	80100PR	80100PR 90	90 STWD	90 STWD		
	Second Alternative Compression (Foot) Valve					STD. SOFT	STD. SOFT	STD. SDFT	STD. SOFT	STD.SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	90/120 STD. SOFT SOFT/MED.		
	Rebound (Piston Rod) Valve SEMI-HEAVYWEIGHTS		The same		1000	STD. SOFT	STD. SOFT	STD.SOFT		3 1 1			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
260 TO 290 LBS.	Spring Rate In Lbs. Part Number					60/90 6090PR	60/90 6090PR	78 78 STWD	78 78 STWD	80/100 80100PR	80/100 80/100PR	90 90 STWD	90/120 90120PR	90/120 90120PR		
200 TO 290 LBS.	Second Alternative Compression (Foot) Valve						78 STD. SOFT	STD. SOFT	80/100 STD, SOFT	STD. SOFT	90 STD. SOFT	STD. SOFT	SOFT/HARD	110 SOFT/HARD	1 8	
The state of the	Rebound (Piston Rod) Valve		1974			STD. SOFT STD. SOFT	STD. SOFT	STD. SOFT	STD. SOFT	STD. SOFT	STD. SOFT	SOFT/MED.	MEDIUM	MEDIUM		
	HEAVYWEIGHTS Spring Rate In Lbs. Part Number			1 1 1 1 1 1 1			78 78 STWD	78 78 STWD	80/100	80/100 80100PR	90 90 STWD	90/120	90/120 90120PR	110	110	120
295 TO 330 LBS.	Part Number Second Alternative							78 STWD 80/100 STD. SOFT	80100PR	80 100PR 90 STD. SOFT		90120PR	90120PR 110 SOFT/HARD	110 STWD	110 STWD	120 STWD 135 STD . SOFT
	Compression (Foot) Valve Rebound (Piston Rad) Valve						STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT STD. SOFT	STD. SOFT MEDIUM	SOFT/HARD MEDIUM	STD. SOFT MEDIUM	SOFT/HARD MEDIUM	STD. SOFT MEDIUM
			40			9 1				ALC: Y	- N					
MX Shocks	(For Special G.F	 Suspension 	is with E	xtreme	Forward	Angle an	nd Cantile	ever Set-L	Jps)			100	TALL P			
MOTORCYCLE	DESCRIPTION			- 20-		ERS WEIGHT (I		A 100		E	110	7	- 177	REMARKS	H. Carlot	
WEIGHT		130	140	150	160	170	180	190	200	210	LINE S		ALC: N			
	ULTRA LIGHTWEIGHTS Spring Rate In Lbs.	80/100	90	90	90	90/120	90/120	90/120	110 110 STWD	110	The	hydraulic action of a	all of our shocks can	be increased about 2	5% when using our he	eavy duty
UP TO 200 LBS.	Spring Rate In Lbs. Part Number Compression (Foot) Valve	80100PR STD. SOFT	90 STWD STD. SOFT	90 STWD STD. SOFT	90 STWD HARD	90120PR STD. SOFT	90120PR HARD	90120PR HARD	STD. SOFT	110 STWD HARD	Нуб	ro-Damp Fluid - (20 pression and rebound	U-22 grade). It should d are needed.**	be used carefully an	d only when a greate	r nydraulic
	Rebound (Piston Rod) Valve	STD. SOFT	STD. SOFT	STD. SOFT	STD. MED.	SOFT/MED.	STD. MED.	STD.MED.	STD. MED.	STD, MED.	- Prel	oad and spring rate c	hoice depends not or	nly on weight and po	sition of shock moun	its but on
	LIGHTWEIGHTS Spring Rate In Lbs.	90	90/120	90/120	110	110	120	120	135	135	ride and	r's style and ability." shock setting, but fir	This chart gives you a nal choice always dep	general idea on how ends on rider's prefe	to choose the right s rence.	spring rate
200 TO 220 LBS.	Spring Rate In Lbs. Part Number Compression (Foot) Valve	90 STWD STD. SOFT	90120PR STD. SOFT	90120PR HARD	110 STWD STD. SOFT	110 STWD HARD	120 STWD STD. SOFT	120 STWD HARD	135 STWD STD. SOFT	135 STWD HARD STD. MED.	All	Mulholland SS and M	X shocks are filled w	ith the medium rate	Hydro-Damo fluid at	t the
	Rebound (Piston Rod) Valve	STD. SOFT	SOFT/MED.	STD. MED.	STD. MED.	STD, MED.	STD. MED.	STD. MED.	STD.MED.	STD. MED.	fact	ory which is the equi	ivalent to 8-12 grade. Our Hydro-Oamp Flu	When replacing oil o	ontent, always use the	e exact
	MEDIUM WEIGHTS Spring Rate In Lbs.	90/120	110	110	110	120	120	135	135 135 STWD	150	pert Mul	ormance and endura holland Hydro-Damp	Fluid may directly	that does not achieve	the high standards of ion and life of your st	of our hocks.
220 TO 240 LBS.	Part Number Compression (Foot) Valve	90120PR STD. SOFT	110 STWD STD, SOFT	110 STWD HARD	110 STWD HARD	120 STWD STD. SOFT	120 STWD HARD	135 STWD STD. SOFT	HARD	150 STWD SOFT/HARD					actory dyno tuned. A	
	Rebound (Piston Rod) Valve	SOFT/MED.	STD. MED.	STD. MED.	STD. MED.	STD, MED.	STD, MED.	STD. MED.	STD. MED.	MED./HARD	all a	ssemblies go through	three different oil fl	ow dynamometers to	test and adjust loads	s in three
	Rebound (Piston Rod) Valve														ks make it possible to	
	HEAVYWEIGHTS		110	120	120	120	135	135	150	150	9011	al-matched pairs at al	Il times. Please do no	t attempt to change	valuing conditions: It	biou Hise
240 TO 260 LBS. STRAIGHT WOUND SPRI Rate Lbt/linch 50 Part Number 50 STWO	HEAVYWEIGHTS Spring Rate In Lbs. Part Number Part Number Compression (Foot) Valve Rebound (Fiston Rod) Valve IMGS (Bright Black Tellon Finishing) 60 78	110 110 STWD STD. SOFT STD. MED.	110 110 STWD HARD STD, MED.	120 120 STWD STD. SOFT STD. MED.	120 120 STWD HARD STD. MED.	Rate Lbs./Inch Part Number	135 STWD STD. SOFT STD. MED. VE WOUND SPRINGS 60/90 60/90PR	80/100 90 80100PR 90	0/120 Ret	150 STWD HARD HARD HARD TOME FINISHED SP LLbs./Inch 80/100 Number C80100	equ our of d RINGS 90/120 e C90120P	af-matched pairs at al guarantee and unless ampers agein.	Il times. Please, do no you have sophistical "Increase "This will 150 C150STW	et attempt to change ed flow dynamomete	valving conditions; It ers you may never ma tincrease proportiona	t will void atch a set
STRAIGHT WOUND SPRIF Rate Lbs_/Inch 50 Part Number 50 STWD Color Code Gold	HEAVYWEIGHTS Spring Rate In Lbs. Part Number Part Number Compression (Foot) Valve Rebound (Picton Rod) Valve Rebo	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED.	120 STWD HARD STD. MED.	120 STWD HARD STD. MED. PROGRESSIV Rate Libs./Inch Part Number Color Code	135 STWD STD. SOFT STD. MED. FE WOUND SPRINGS 60/90 60/90 60/90 60/90 Red	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90 90100PR 90 Orenge Si	150 STWD SOFT/HARD MED./HARD Finishing) CHF 0/120 Ret 10/120 Ret 10/120 Per Colo	HARD HARD COME FINISHED SP 1.Ds./nch 80/100 Code Ce0100 Crange	equ our of d	af-matched pairs at al guarantee and unless ampers agein.	Il times. Please, do no you have sophistical "Increase "This will	et attempt to change ed flow dynamomete Preload not change bias, but	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRIF Rate Lbs./Inch 50 Part Number 50 STWD Color Code Gold	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number In Compression (Foot) Valve Rebound (Pitton Rod) Valve INGS (Bright Black Tellon Finishing) 60 78 60 STWD 78 STWD Light Blue White (All Street, Paved)	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED.	120 STWD HARD STD. MED.	120 STWD HARD STD. MED. PROGRESSIV Rate Libs./inch Part Number Color Code	135 STWD STD. SOFT STD. MED.	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90 80100PR 90 Orenge Si	150 STWD SOFT/HARD MED./HARD Finishing) CHF 0/120 Ret 10/120 Ret 10/120 Per Colo	HARD HARD COME FINISHED SP 1.Ds./nch 80/100 Code Ce0100 Crange	RINGS 90/120 e C00120P Silver	al-matched pairs at al guarantee and unless ampers agein. 120 C120STW Green	Il times. Please, do no you have sophistical "Increase "This wik 150 C150STW Flok	et attempt to change ed flow dynamomete Preload not change bias, but	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRIF Rate Lbs_/Inch Part Number Color Code SO STWD Gold	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number In Compression (Foot) Valve Rebound (Pitton Rod) Valve INGS (Bright Black Tellon Finishing) 60 78 60 STWD 78 STWD Light Blue White (All Street, Paved)	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED.	120 STWD HARD STD. MED. 150 150 STWD Pink /2 Mile	120 STWD HARD STD. MED. PROGRESSIV Rate Libs./Inch Part Number Color Code	135 STWD STD. SOFT STD. MED. E WOUND SPRINGS 6000 6000PR Red hort Trac	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 80/100 S (Bright Black Tellon 80/100 S (B	150 STWD SOFT/HARD MED./HARD Finishing) CHF 0/120 Ret 10/120 Ret 10/120 Per Colo	HARD HARD COME FINISHED SP 1.Ds./nch 80/100 Code Ce0100 Crange	equ our of d RINGS 90/120 e C90/120 e C90/120 silver	af-matched pairs at al guarantee and unless ampers agein.	Il times, Please, do m. ryou have sophistical "Increase "This will 150 C150STW Plank	nt attempt to change ed flow dynamomete Preliced I not change bies, but 250 CZ\$OSTW None	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRIF Rate Lbs_/Inch Part Number Color Code SO STWD Gold	HEAVYWEIGHTS Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Picton Rod) Valve INGS (Bright Black Tellon Finishing) SO STWD 78 STWD Light Black Tellon Finishing) White (All Street, Paved Spring Rate Lbs./Solo Riding Part Number Double Riding	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Bare Lbz./Inch Pert Number Color Code Fracks, S 60/90 60/90 60/90PR	135 STWD STD. SOFT STD. MED. FE WOUND SPRINGS 60/90 6000PR Red 60/90 6000PR 5000PR	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 99 80100PR 99 Orenge Si K etc., A	150 STWD SOFTMARD MED./HARD MED./HARD 0/120 D120PR Part Colo 78 78 STWD	HARD HARD TOME FINISHED SP 1.1.5.1/hch Number Code C80100 Orange	equ our of d RINGS 90/120 e C90120P	al-matched pairs at al guarantee and unless ampers agein. 120 C120STW Green 80/100 80/100PR STD. SOFT	Il times, Please, do mr. you have sophistical "Increase" "This will 150 CIBOSTN Plank 80/100 80/100 80/100PR	et attempt to change ed flow dynamomete Preload not change bias, but	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRI Rate Lbu/Inch 50 Part Number 50 STWD Color Code Gold	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number In Compression (Foot) Valve Rebound (Pitton Rod) Valve INGS (Bright Black Tellon Finishing) 60 78 60 STWD 78 STWD Light Blue White (All Street, Paved)	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. MED. 135 STD. MED. 135 STWD Purple 1010 and 1	120 STWD HARD STD. MED.	120 STWD HARD STD. MED. PROGRESSIV Bate Libs./Inch Pet Number Color Code Fracks, S 60/90	135 STWD STD. SOFT STD. MED. E WOUND SPRINGS 6000 6000PR Red hort Trac	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 80/100 S (Bright Black Tellon 80/100 S (B	150 STWD SOFT/HARD MED/HARD Finishing) O/120 Policatio 78	HARD HARD OME FINISHED SP Libs./hch Number Code Orange 78 78 STWO	equ our of d RINGS 90/120 P C80120P Silver 78 78 STWD 80/100 STD. SOFT STD MED.	al-matched pairs at al guarantee and unless ampers agein. 120 C120STW Green 80/100 80100PR STD. MED.	Il times, Please, do no you have sophistical "Increases" "Increases "This will 150 C1565TW Fleik "80/100 80/100PR STD. SOFT STD. MED.	n attempt to change diflow dynamometr of the diflow dynamometr of the diflow dynamometr of the difference of the differe	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRI Rate Lbu/Inch 50 Part Number 50 STWD Color Code Gold	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Coro Street, Pave C	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Rose Like Incident Part Incident Part Incident Part Incident Color Code Fracks, SI 60/30 0930PR STD. SOFT STD. MED. 60/90	135 STWD STD. SOFT STD. MED. WE WOUND SPRINGS 60/90 And HOTT Trac 60/90 60/90PR STD. SOFT 500, MED. 60/90	135 STWD HARD STD. MED. STD. MED. SI Bright Black Tellon 80/100 90 000 000 90 000 90 000 90 000 90 000 90 000 90 000 90 000 90 000 90 9	150 STWD SOFT-MARD MED./HARD MED./HARD MED./HARD Philosoft Particles of the control of the contr	HARD HARD HARD HARD HARD HARD HARD HARD	equ our of d	al-matched pairs at al guarantee and unless ampers agein. 120 C120STW Green 80/100 80100PR STD. MED.	Il times, Please, do no you have sophistical "Increases" "Increases" "This will 150 C1565TW Fleik "80/100 80/100PR STD. SOFT STD. MED.	n attempt to change diflow dynamometr of the diflow dynamometr of the diflow dynamometr of the difference of the differe	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRI Rate Lbu/Inch 50 Part Number 50 STWD Color Code Gold	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Foot) Valve Rebound (Picton Rod) Valve Rebound (Picton Rod) Valve Rebound (Picton Rod) Valve Rebound (Picton Rod) Valve Spring Rate Lbs./Solo Riding Part Number Pouble Riding	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Reve Lbs./Inch Protection Color Color Color Color Color STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 6090PR	135 STWD STD. SOPT STD. MED. WE WOUND SPRINGS 60/90 60/90/R STD. SOPT STD. MED. 60/90 60/90/PR STD. SOPT STD. MED. 60/90/PR	135 STWD HARD STD. MED. STD. MED. SI Bright Black Tellon 80/100 90 8010077 90 90 90 90 90 90 90 90 90 90 90 90 90	150 STWD SOFTWD STD SOFTWD STD SOFT SOFT SOFT SOFT SOFT SOFT SOFT SOFT	HARD HARD HARD HARD HARD HARD HARD HARD	RINGS 90/120 P 200120P 78 78 STWD 80/100 STD. SOFT STD MED. 80/100 PS STD. SOFT STD. SOFT STD MED. 80/100 PS STD STD MED. 80/100 PS STD STD MED. 80/100 PS STD STD STD STD STD STD STD STD STD ST	al-matched pairs at al guarantee and unless superarce superarc	Il times, Please, donc you have sophistical "Increase "This will 150 CISOSTW Plink 80/100 80/100PR STD. SOFT STD. MED. 90 90 STWD	nt attempt to change of flow dynamometric dy	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRI Rele Lau/Inch Sel STWD Gold Code SS Shocks UP TO 220 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Fiston Rod) Valve 60 60 78 60 STWD 78 STWD Light Blue White (All Street, Paved Spring Rate Lbs / Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Fiston Rod) Valve Coube Rate Lbs / Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Fiston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Rese Lbb./Indeb Per Number Color Code Fracks, S 60,90 60,90 FT STD. MED. 60,90 60,90 60,90 60,90 FT STD. MED. 507.50 FT STD. MED. 507.50 FT STD. MED.	135 STWD STD. SOFT STD. MED. **E WOUND SPRINGS COOPER Red **POOPER Red **OOPER STD. SOFT STD. MED. **EON SOOPER STD. MED	138 STWD HARD STD. MED. S (Bright Black Tellon Bol 100 90 80 100 PM 90 90 90 90 90 90 90 90 90 90 90 90 90	150 STWD SOFT STD. SOFT STD. MED.	HARD HARD HARD HARD HARD HARD HARD HARD	RINGS 90/120 P 28 STWD 80/100	al-matched pairs at al guarante and unless ampers agein. 120 C120STW Green 80/100 80100PR STD. SOFT STD. MED. 80/100 80100PR STD. SOFT STD. MED.	Il times, Please, do no you have sophistical "Increase" This will 159 C166TW Pink 80/100 80/100PR STD, SOFT STD, MED. SO SOFT STD, SOFT STD, MED.	n attempt to change of flow dynamometr of the different of flow dynamometr of flow dynamo	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRI Rele Law/Inch See Straight See Straight Color Code Gold Gold S SS Shocks UP TO 220 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Geody Valve Rebound (Picton Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Picton Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Rese Lbb./Indeb Per Number Color Code Fracks, S 60,90 60,90 FT STD. MED. 60,90 60,90 60,90 60,90 FT STD. MED. 507.50 FT STD. MED. 507.50 FT STD. MED.	135 STWD STD. SOFT STD. MED. TE WOUND SPRINGS 60/30 60/30 60/30 60/30 60/30 60/30 60/30 8 STD. SOFT STD. MED. 78	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90 90 90000PR 90 90000PR 78 STD. SOFT STD. MED.	150 STWD SOFTWD STD SOFTWD STD SOFT SOFT SOFT SOFT SOFT SOFT SOFT SOFT	HARD HARD HARD SOLD HARD SOLD HARD SOLD HARD SOLD HARD SOLD HARD SOLD HARD HARD HARD HARD HARD HARD HARD HAR	equ our of d our our our of d our our our our of d our our of d our our our our our our of d our our of d our our of d our our our our our of d our	al-matched pairs at al guarantee and unless superarce superarc	Il times, Please, do no you have sophistical or the sophistical of the	nt attempt to change of flow dynamometric dy	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRI Refe Law/Inch See Straight See Straight Color Code Gold Gold S SS Shocks UP TO 220 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Geody Street, Paved Street, Paved Street, Paved String Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. STD. MED. PROGRESSIV Rese Ubs. Indeh Prix Number Color Code 6090PR STD. SOFT STD. MED. 60/90 RSTD. SOFT STD. MED. 60/90PR STD. SOFT STD. 60/90PR	135 STWD STD. SOFT STD. MED. 16 WOUND SPRINGS 60/30 60/30/49 And 60/30/49 And 60/30/49 STD. SOFT STD. MED. 18 STD. SOFT STD. MED. 18 STWD STD. SOFT STD. SOFT STD. MED. 18 STWD. STD. SOFT STD. MED.	135 STWD HARD STD. MED. S In-right Black Tellon 80/100 99 80100PR 99 8010 90 90 90 90 90 90 90 90 90 90 90 90 90	150 STWD SOFTMARD MED./HARD MED./HARD MED./HARD Ph/20 Ret. Ph/20 R	HARD HARD HARD HARD HARD HARD HARD HARD	equ our of d our our our our of d our	al-matched pairs at al guarante and unless ampers agein. 120 C120STW Green 80/100 80100PR STD. SOFT STD. MED. 90 STW. SDFT STD. MED. 90 STWD STD. SOFT STD. MED. 90 STWD STD. SOFT STD. MED.	Uimes, Please, do not you have sophistical	n attempt to change of flow dynamometr of the different o	valving conditions; It ers you may never ma	t will void atch a set
STRAIGHT WOUND SPRI Bate Libri.Inch. Part Number: 50 50 STW Color Code: 60 Hd SS Shocks UP TO 220 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Fiston Rod) Valve 1INGS (Bright Black Tellon Finishing) 60 78 60 STWD 785TWD CLijsh Blue White White (All Street, Paved Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. PROGRESSIV Rese Ubst. Indeh Per Number Color Code G090PR STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. SOFT STD. MED. SOFT STD. MED.	135 STWD STD. SOFT STD. MED. 16 WOUND SPRINGS 60/30 6	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90 90 90000PR 90 90000PR 78 STD. SOFT STD. MED.	150 STWD SOFT STD. MED. 150 STWD MED./HARD MED./HARD MED./HARD MED./HARD MED./HARD MED./HARD MED. 150 STD. SOFT STD. MED. 150 STWD STD. SOFT STD. MED. 150 STWD STD. SOFT STD. MED.	HARD HARD HARD HARD HARD HARD HARD HARD	## STWD ## STD. SOFT STD. MED. ## STWD ## STD. SOFT STD. MED.	al-matched pairs at al guarantee and unless ampers agein. 120 C120STW Green 80/100 80100PR STD. SOFT STD. MED. 90 STW. Dept. STD. SOFT STD. MED. 90 STW. Dept. STD. SOFT STD. MED. 90 STW. Dept. STD. SOFT STD. MED.	Il times, Please, do not you have sophistical vincreases "Increases" increases 159 C1865TW Plink WILLIAM STORM STO	n attempt to change diflow dynamometre diflow dynamometre diflow dynamometre diflowed from the difference diff	valving conditions; It	t will void atch a set
STRAIGHT WOUND SPRI Rate Librilinch Part Number 50 90 W 50 3TW Color Code Gold W SS Shocks UP TO 220 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Fitton Rod) Valve Rebound (Fitton Rod) Valve Rebound (Fitton Rod) Valve Spring Rate Lbs / Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Fitton Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Rest Like Index Per Number Per Number Color Code Fracks, SI 60/30 60/30PR STD. SOFT STD. MED. 60/90 60/90PR STD. SOFT STD. MED. 60/90 60/90PR 78 STD. SOFT 78 STD. SOFT 78 STD. SOFT 78	135 STWD STD. SOFT STD. MED. 16 WOUND SPRINGS 60/30 60/30/49 And 60/30/49 And 60/30/49 STD. SOFT STD. MED. 18 STD. SOFT STD. MED. 18 STWD STD. SOFT STD. SOFT STD. MED. 18 STWD. STD. SOFT STD. MED.	138 STWD HARD STD. MED. S (Bright Black Tellon Bol 100 Per Section 100 Per Se	150 STWD SOFTMARD MED./HARD MED./HARD MED./HARD Ph/20 Ret Percent Photos Percent	HARD HARD HARD HARD HARD HARD HARD HARD	RINGS 90/120 P CB01720 P CB01720 P STD. SOFT STD. MED. 80/100	al-matched pairs at al aguarante and unless ampers agein. 120 c120STW Green 80/100 80100PR STD. SOFT STD. MED. 90 SUTUD SUTUD STD. SOFT STD. MED. 90 SUTUD STD. SOFT STD. MED. 90 SUTUD STD. SOFT STD. MED.	U times, Please, do not you have sophished	n attempt to change of flow dynamometric discovery and the control of the control	valving conditions; It ers you may never may n	t will void atch a set
STRAIGHT WOUND SPRI Bate Libri.Inch. Part Number: 50 50 STW Color Code: 60 Hd SS Shocks UP TO 220 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Rete Lbb./Indeb Per Number Color Code FTACKS, SI 60/90 60/90 RSTD. SOFT STD. MED. 60/90 RSTD. SOFT STD. MED. 60/90 RSTD. SOFT STD. MED. 78 78 78 STWD.	135 STWD STD. SOFT STD. MED. **E WOUND SPRINGS	13s STWD HARD STD. MED. S (Bright Black Tellon Bol'top Std. Med.) S (Bright Black Tellon Solton Std. Med.) S (Bright Black Tellon Solton Solton Std. Med.) S (Bright Black Tellon Solton Solton Med.) 78 TSTD. SOFT STD. MED. 78 TSTD. SOFT STD. MED. 78 TSTD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 78 STWD 80 STD. SOFT STD. MED.	150 STWD SOFTMARD MED./HARD MED./HARD MED./HARD Philosoft ST. Soft STD. MED. 78 78 STWD STD. SOFT STD. MED. 78 78 STWD STD. SOFT STD. MED. 78 78 STWD STD. SOFT STD. MED. 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100	HARD HARD HARD HARD HARD HARD HARD HARD	80/120 80/120 80/120 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100 80/100	al-matched pairs at al aguarante and unless ampers agein. 120 cm 205TW Green 80/100 80100PR STD. SOFT STD. MED. 90 STWD. STD. MED. 90 STWD. STD. SOFT STD. MED.	## (I times, Please, do no. you have sophistical property of the property of t	11 attempt to change of flow dynamomete of flow dyn	valving conditions; It ers you may never may n	t will void atch a set
STRAIGHT WOUND SPRING Rate Librilinch Rate Librilinch SS Shocks UP TO 220 LBS. 220 TO 260 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Piston Rod) Valve 100 STWD 78 STWD Light Blue White White White CAII Street, Paved Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Best Lbk.Indein Per Number Color Code For Number Color Code STD. SOFT STD. MED. 60/90 60/90PR STD. SOFT STD. MED. 60/90 60/90PR STD. SOFT STD. MED. 60/90 78 TO. SOFT STD. MED. 60/90 STD. SOFT STD. MED. 60/90 STD. SOFT STD. MED. 78 TO. SOFT STD. MED. 78 TO. SOFT STD. MED. 78 TO. SOFT STD. MED.	135 STWD STD. SOFT STD. MED. E WOUND SPRINGS 60700 GROOPR Red Trace 60/90 GROOPR STD. SOFT STD. MED. 60/90 GROOPR STD. MED. 60/90 STD. SOFT STD. MED. 78 TS. SOFT STD. MED. 78 TS. SOFT STD. MED. 78 TS. STWD 60/90 STD. SOFT STD. MED. 78 TS. STWD 60/90 STD. SOFT STD. SOFT STD. MED. 78 TS. STWD 60/100 STD. SOFT STD. MED.	135 STWD HARD STD. MED. S IB-right Black Tellon 80/100 99 80100PR 99 810 810 810 810 810 810 810 810 810 810	150 STWD SOFTMARD MED./HARD MED./HARD MED./HARD Ph/20 Ret Port Port Port Port Port Port Port Por	HARD HARD HARD HARD HARD HARD HARD HARD	RINGS 90/120 C 201/20/20 P 201/20 P 201	al-matched pairs at al guarantee and unless ampers agein. 120	U times, Please, do no you have sophished in the control of the co	na stempt to change of flow dynamometric difference of flow dy	110 110 STWD 110 STWD 120 HARD STD, MED.	will wid atch a set
STRAIGHT WOUND SPRI Rate Libr/Inch Part Number 50 STWO Color Code 60 STWO SS Shocks UP TO 220 LBS. 220 TO 260 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Piston Rod) Valve 100 STWD 78 STWD Light Blue White White White CAII Street, Paved Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. STD. MED. SPT STD. MED. SOFT STD. MED. STD. SOFT STD. STD. SOFT STD. MED. STD. SOFT STD. STD. SOFT STD. SOFT STD. SOFT STD. SOFT STD. SOFT STD. SOTT STD. STD. SOTT STD. SOTT STD. STD. SOTT STD. MED. STD. SOTT STD. STD. SOTT STD. STD. SOTT STD. STD. STD. STD. SOTT STD. STD. STD. STD. STD. STD. STD. ST	135 STWD STD. SOFT STD. MED. 16 WOUND SPRINGS 60790 60790 60790 78 78 TD. MED. 17 STD. MED. 18 STWD 60790 Red 18 STD. SOFT STD. MED. 18 TS STWD 807100 807100 80710 SOFT STD. MED. 18 STD. SOFT STD. MED. 18 TS STWD 807100	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90 90 90 9000PR 90 90 90 90 90 90 90 90 90 90 90 90 90	150 STWD SOFT STD. MED. T8 STWD STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 80/100 B0/100 B0/	HARD HARD HARD SOLITOR HARD HARD HARD HARD HARD HARD HARD HAR	RINGS	al-matched pairs at al aguarante and unless ampers agein. 120	## (I times, Please, do not you have sophistical property of the property of t	In a stempt to change of flow dynamometr of those of flow dynamometr o	valving conditions; It ers you may never may n	t will void atch a set
STRAIGHT WOUND SPRI Rate Libr/Inch Part Number 50 STWO Color Code 60 STWO SS Shocks UP TO 220 LBS. 220 TO 260 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Part Number Geody Piston Rod) Valve Rebound (Piston Rod) Valve Rebound (Piston Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 78 STWD STD. SOFT STD.	135 STWD STD. SOFT STD. MED. E WOUND SPRINGS 60:00 60	135 STWD HARD STD. MED. S In-right Black Tellon 80/100 99 60100PR S1 85 STWD 85 STD. SOFT STD. MED. 78 STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 78 STWD 87 STWD 87 STWD 80/100 STD. SOFT STD. MED. 80/100 SOFT STD. MED. 80/100 SOFT STD. MED. 80/100 SOFT STD. MED.	150 STWD MED./HARD MED./HARD MED./HARD MED./HARD Phi/20 Ret. Phi/2	HARD HARD HARD HARD HARD HARD HARD HARD	RINGS 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120 90/120	######################################	U times, Please, do not you have sophistics	Pipicad of those points to change of the who will be considered to the construction of	110 110 STWD 120 STWD 120 STWD	twill wold stoch as set stoch as set stoch as set stoch as set stoch direction at sets in both d
STRAIGHT WOUND SPRI Rate Labr/Inch Part Number 50 STWO Gold Code Code 50 STWO Gold VO SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Geody Street, Paved String Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve String Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. SOFT STD. MED. SOFT STD. MED. SOFT STD. MED. STD. STD. ME	135 STWD STD. SOFT STD. MED. E WOUND SPRINGS 60:00 6990PR Red 60:90 6990PR STD. SOFT STD. MED. 60:90 6990PR STD. SOFT STD. MED. 78 78 STWD 80:100	135 STWD HARD STD. MED. S IB-right Black Tellon 80/100 99 80100PR Co-enge Si St Co-e	150 STWD SOFT/HARD MED./HARD MED./HARD Ph/20 Ret Port Port Port Port Port Port Port Por	HARD HARD HARD HARD HARD HARD HARD HARD	80100PR STD. SOFT STD. MED. 801100PR STD. SOFT STD. MED. 90120 STD. SOFT STD. MED. STD. SOFT STD. MED. 90120 STD. SOFT STD. MED. 90120 STD. SOFT STD. MED.	### at a full and a fu	## (I times, Please, do not you have sophistical property of the property of t	11 attempt to change of flow dynamomete of flow dyn	110 110 STWD 120 HARD MED. 120 HARD MED. 120 TO STWD 1	120 STWD HARD STD, MED.
STRAIGHT WOUND SPRI Rate Labr/Inch Part Number 50 STWO Gold Code Code 50 STWO Gold VO SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Geody Street, Paved String Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve String Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Best Lbk.Indein Per Number Color Code 6090 RSTD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 87D. SOFT STD. MED. 78 78 STWD 80/100 STD. SOFT STD. MED. 78 STWD 80/100 STD. SOFT STD. MED.	135 STWD STD. SOFT STD. MED. 60/30 6990PR Red PROPER STD. SOFT STD. SOFT STD. SOFT STD. MED. 78 STWD SOFT STD. MED. 78 STWD SOFT STD. MED. 80/100 STD. SOFT STD. MED.	135 STWD HARD STD. MED. S IB-right Black Tellon 80/100 99 801000PR 96 80100 PS 178 STD. SOFT STD. MED. 78 STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 78 THE STWD 80/100 STD. SOFT STD. MED. 80/100 80/100 PS STD. SOFT STD. MED.	150 STWD SOFT/HARD MED./HARD MED./HARD MED./HARD Ph/120 Ret To	HARD HARD HARD HARD HARD HARD HARD HARD	### STUND ### ST	######################################	Ulmer, Please, do not you have sophistics	a stempt to change of flow dynamometr of the different of flow dynamometr of flow dynamom	110 110 STWD 120 STWD 120 STWD	twill wold stoch as set stoch as set stoch as set stoch as set stoch direction at sets in both d
STRAIGHT WOUND SPRI Rate Labr/Inch Part Number 50 STWO Gold Code Code 50 STWO Gold VO SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Fiston Rod) Valve Rebound (Fiston Rod) Valve Spring Rate Lbs./Solo Riding Part Number Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs./Solo Riding Part Number Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Best Lbs. Indei Per Number Color Code For Number Color Code STD. SOFT STD. MED. 60/80 6990PR STD. SOFT STD. MED. 60/90 8090PR 78 TD. SOFT STD. MED. 78 TSTWD STD. SOFT STD. MED. 78 TSTWD STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED.	135 STWD STD. SOFT STD. MED. 60/90 6990PR STD. SOFT STD. MED. 60/90 6990PR STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED.	135 STWD HARD STD. MED. S IB-right Black Tellon 80/100 90 90000PR 90 90 90 90 90 90 90 90 90 90 90 90 90	150 STWD SOFTMARD MED./HARD MED./HARD MED./HARD Ph/20 Ret To 10/120 Ret	HARD HARD HARD HARD HARD HARD HARD HARD	80100 801	al-matched pairs at al aguarante and unless ampers agein. 120 cm 200 cm	## (I times, Please, do no. you have sophished in the control of t	a stempt to change of flow dynamomete of flow dynam	110 110 STWD 110 STWD 120 HARD STD. MED. 120 120 STWD STD. SOFT STD. MED. 120 STWD 120 STWD	120 TWD HARD STD. MED.
STRAIGHT WOUND SPRI Rete Librifich Part Number 50 50 TWO Gold Colde Gold S SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS. 300 TO 340 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Spring Rate In Lbs. Spring Rate In Lbs. Spring Rate Lbs. Spolo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. SOFT STD. MED. SOFT STD. MED. STD. SOFT STD. MED. SOFT STD. MED. SDJ. SDJ. SDJ. SDJ. SDJ. SDJ. SDJ. SD	135 STWD STD. SOFT STD. MED. 60/90 6090PR Red 60/90 6090PR STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 78 STD. SOFT STD. MED. 78 TSTD. SOFT STD. MED. 78 TSTWD 80/100 80/100 80/100 80/100 80/100 B0/100 B0/1	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90000PR 90 90 90 90 90 90 90 90 90 90 90 90 90	150 STWD MED./HARD MED./HARD MED./HARD MED./HARD Phi/20 Per lever	HARD HARD HARD HARD HARD HARD HARD HARD	### STUND ### ST	######################################	U times, Please, do not you have sophistical common to the property of the p	18 attempt to change of flow dynamomete of flow	110 stwp man and man a	120 stwb direction 130 stwb direction 135 dire
STRAIGHT WOUND SPRI Rete Librifich Part Number 50 50 TWO Gold Colde Gold S SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS. 300 TO 340 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Fitton Rod) Valve ### Annumber ### Annumber Compression (Foot) Valve ### Annumber Compression (Foot) Valve ### Annumber Compression (Foot) Valve ### Annumber Couble Riding Compression (Foot) Valve #### Annumber Couble Riding Compression (Foot) Valve #### Annumber Compression (Foot) Valve ##### Annumber Compression (Foot) Valve ####################################	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. SOFT STD. MED. SOFT STD. MED. SOFT STD. MED. STD. SOFT STD. MED. SOFT STD. MED. STD. SOFT STD. MED. SOFT STD. SOFT STD. MED. SO	135 STWD STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 8090PR STD. SOFT STD. MED. 60/90 8090PR STD. SOFT STD. MED. 78 78 STWD 80/100	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90000PR 90 STD. MED. 78 STD. MED. 78 STWD STD. MED. 78 STWD STD. SOFT STD. MED. 90 STD. SOFT STD. MED.	150 STWD MED./HARD MED./HARD MED./HARD MED./HARD POINT MED./HARD POINT MED. TRANSPORT MED. TRANS	HARD HARD HARD HARD HARD HARD HARD HARD	80100PR 80100PR 80100PR 80100PR 80100PR 80100PR 80100PR 90100PR	### A	U times, Please, do not you have sophistical common	18 attempt to change of flow dynamomete of flow of f	110 110 STWD 120 STWD STO. SOFT/HARD 20 SOFT/HARD 20 SOFT/HARD	120 stwb direction 130 stwb direction 135 dire
STRAIGHT WOUND SPRI Rete Libs/Inch Part Number 50 50 50 50 50 50 50 50 50 50 50 50 50	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Geody Britan Street (All Street, Paved Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve String Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV BRIE LIBLING-IN PER IN UNDER COLOR COORD 6090PR STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 78 70 SOFT STD. MED. 78 TO SOFT STD. MED. 78 STWD 80/100 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 90 STD. SOFT STD. MED. 91 STD. SOFT STD. MED.	135 STWD STD. SOFT STD. MED. 60/90 60900PR Red 60/90 60900PR STD. SOFT STD. MED. 60/90 60900PR 78 STD. SOFT STD. MED. 78 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 90/120 STD. SOFT STD. MED.	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90000PR 90 90 90 90 90 90 90 90 90 90 90 90 90	150 STWD SOFT-ARD MED./HARD MED./HARD MED./HARD MED./HARD PO	HARD HARD HARD HARD HARD HARD HARD HARD	RINGS	### at a full and a fu	U times, Please, do not you have sophistics	10 10 10 10 10 10 10 10	110 110 STWD 110 STWD 120 STWD 120 STWD 120 STWD 120 STWD 120 STWD 120 STD, MED. 120 STT/HARD 120 STD, MED. 120 STD, MED. 120 STT/HARD 120 STD, MED. 120 STT/HARD 120 STD, MED. 150 STT/HARD 150 STWD	120 120 STWD HARD STO. MED. 150 STW. MED. 150 STW. MED.
STRAIGHT WOUND SPRI Rate Labr/Inch Part Number 50 STWD Color Code 50 STWD Color Code 50 STWD SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS. 300 TO 340 LBS. 340 TO 380 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Picton Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. STD. MED. SOFT STD. MED. SOFT STD. MED. SOFT STD. MED. SOFT STD. MED. STD. SOFT STD. MED. SOFT STD. SOFT STD. MED. SOFT STD. MED. SOFT STD. SOFT STD. MED. SOFT STD. MED. SOFT STD. SOFT STD. SOFT STD. SOFT STD. SOFT STD. SOFT STD. MED. SOFT STD. MED. SOFT STD. SOFT STD. SOFT STD. SOFT STD. SOFT STD. SOFT STD. MED. SOFT STD. SOTT ST	135 STWD STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 8090PR STD. SOFT STD. MED. 60/90 8090PR STD. SOFT STD. MED. 78 78 STWD 80/100	135 STWD HARD STD. MED. S (Bright Black Tellon 80/100 90000PR 90 STD. MED. 78 STD. MED. 78 STWD STD. MED. 78 STWD STD. SOFT STD. MED. 90 STD. SOFT STD. MED.	150 STWD SOFTMARD MED./HARD MED./HARD MED./HARD Phi/20 ME	HARD HARD HARD HARD HARD HARD HARD HARD	80100PR 80100PR 90120 STD. SOFT STD. MED. 90120 STWD. 90120		U times, Please, do not you have sophistical properties	## a stempt to change of flow dynamometed flow dynamomete	110 110 STWD 120 HARD, STD, MED. 120 STWD 120 STWD 120 STWD 120 STWD 120 STD, SOFT 120 STWD 150 MED. 150	120 120 STWD HARD STD, MED. 120 STWD HARD STD, MED. 120 STWD HARD STD, MED. 120 STWD HARD STD, MED. 150 STWD HARD MED, JHARD
STRAIGHT WOUND SPRI Rate Libr./Inch Part Number 50 90 WO 50 3TM Color Code 60 HD SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS. 300 TO 340 LBS. 340 TO 380 LBS. 380 TO 420 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Good Street, Paved Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Rebound (Piston Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Rebound (Piston Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs. Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) V	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Beits Libt. Indeid For Number Color Code 6090PR STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 78 78 78 78 78 78 78 78 78 78 78 78 78	135 STWD STD. SOFT STD. MED. 60/90 60900PR Red 60/90 60900PR STD. SOFT STD. MED. 60/90 60900PR 78 STD. SOFT STD. MED. 78 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 90/120 STD. SOFT STD. MED.	135 STWD HARD STD. MED. S IB-right Black Tellon 80/100 90000PR 90000PR 8TD. SOFT 8TD. MED. 78 8TD. SOFT STD. MED. 78 78 STWD STD. SOFT STD. MED. 78 78 STWD STD. SOFT STD. MED. 78 90 STWD 80/100 80/100 80/100 80/100 90/120	150 STWD SOFT STD. MED. 20100 PR STD. SOFT STD. MED. 80/100 PS STD. SOFT STD. MED. 90/100 PS STD. 90/100 PS STD	HARD HARD HARD HARD HARD HARD HARD HARD	## STIND ##	al-matched pairs at all aguarantee and unless ampers agein. 120 crash grant and unless ampers agein. 120 crash grant and gra	## (I times, Please, do not you have sophished not	14 stempt to change	110 110 STWD 110 STWD 120 STWD 120 STWD 120 STWD 120 STWD 120 STWD 120 STD, MED. 120 STT/HARD 120 STD, MED. 120 STD, MED. 120 STT/HARD 120 STD, MED. 120 STT/HARD 120 STD, MED. 150 STT/HARD 150 STWD	120 120 STWD HARD STO. MED. 150 STW. MED. 150 STW. MED.
STRAIGHT WOUND SPRI Bele Librilinch 50 STWO Color Code 60 STWO Color Code 80 STWO Color Code 80 STWO Color Code 80 STWO Color Code 80 LBS. 220 TO 260 LBS. 220 TO 300 LBS. 300 TO 340 LBS. 340 TO 380 LBS. 420 TO 460 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Compression (Foot) Valve Rebound (Picton Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Beits Libt. Indeid For Number Color Code 6090PR STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 78 78 78 78 78 78 78 78 78 78 78 78 78	135 STWD STD. SOFT STD. MED. 60/90 60900PR Red 60/90 60900PR STD. SOFT STD. MED. 60/90 60900PR 78 STD. SOFT STD. MED. 78 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 90/120 STD. SOFT STD. MED.	135 STWD HARD STD. MED. S IB-right Black Tellon 80/100 90000PR 90000PR 78 STD. SOFT STD. MED. 78 STD. SOFT STD. MED. 78 STWD STD. SOFT STD. MED. 78 78 STWD SOTTO. SOFT STD. MED. 90 90 STWD 90/120 90/120 90/120 90/120 90/120 PSTD. MED. 110 STD. SOFT STD. MED.	150 STWD SOFTHARD MED./HARD MED./HARD MED./HARD Ph/120 Ret Tools of the period of the	HARD HARD HARD HARD HARD HARD HARD HARD	80100 P STD. SOFT STD. MED. 90/120 90/120 90/120 STD. SOFT STD. MED. 120 STWD 135 STD. SOFT STD. SOFT STD. SOFT STD. SOFT STD. MED. 120 STWD 135 STD. SOFT		Umex, Please, do not you have sophistics	1 attempt to change diflow dynamometed flow dynamometed	110 110 STWD 110 STWD 120 STWD 120 STWD STD, MED. 150 STWD STD, MED. 150 STWD STD, MED. 150 STWD SOFT, MED. 150 SOFT	120 TWD HARD STO. MED. 150 STWD HARD MED. HARD STO. MED. 150 STWD HARD STO. MED. 150 STWD HARD MED. HARD M
STRAIGHT WOUND SPRI Rate Libr/Inch Part Number: 50 TWO Gold Color Code 60 HD SS Shocks UP TO 220 LBS. 220 TO 260 LBS. 260 TO 300 LBS. 300 TO 340 LBS. 340 TO 380 LBS. 380 TO 420 LBS.	HEAVYWEIGHTS Spring Rate In Lbs. Spring Rate In Lbs. Part Number Spring Rate In Lbs. Spring Rate In Lbs. Spring Rate Lbs. Spolo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve Spring Rate Lbs./Solo Riding Part Number Double Riding Compression (Foot) Valve Rebound (Piston Rod) Valve	110 110 STWD STD. SOFT STD. MED. 90 110 80 STWD 110 ST Yellow Dwk 81	110 STWD HARD STD, MED.	120 STWD STD. SOFT STD. MED. 135 STWD Purple 60 60 STWD	120 STWD HARD STD. MED. 150 STWD Pink /2 Mile 7	120 STWD HARD STD. MED. PROGRESSIV Beits Libt. Indeid For Number Color Code 6090PR STD. SOFT STD. MED. 60/90 6090PR STD. SOFT STD. MED. 60/90 78 78 78 78 78 78 78 78 78 78 78 78 78	135 STWD STD. SOFT STD. MED. 60/90 60900PR Red 60/90 60900PR STD. SOFT STD. MED. 60/90 60900PR 78 STD. SOFT STD. MED. 78 STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 80/100 B0100PR STD. SOFT STD. MED. 90/120 STD. SOFT STD. MED.	135 STWD HARD STD. MED. S In-right Black Tellon 80/100 90 80100PR 90 80100PR 90 8TD. SOFT STD. MED. 78 8TD. SOFT STD. MED. 78 78 STWD 8TD. SOFT STD. MED. 78 8TWO 8TO. SOFT STD. MED. 80/100 80/1	150 STWD MED./HARD MED./HARD MED./HARD MED./HARD POINT MED./HARD POINT MED. TRANSPORT MED. TRANS	HARD HARD HARD HARD HARD HARD HARD HARD	80100PR 90/120 80/100 80/100PR STD. SOFT STD. MED. 80/100 80/100PR 90 90 90 90 90 90 90 90 90 90 90 90 90	al-matched pairs at all aguarantee and unless ampers agein. 120 crash grant and unless ampers agein. 120 crash grant and gra	U times, Please, do not vou have sophistic with 150 citisostrum pleak 170	14 stempt to change	110 110 STWD 110 STWD 110 STWD 110 STWD 120 STWD STD. SOFT STD. MED. 120 STWD STD. SOFT MED. 150 STWD SOFT/HARD STD. MED. 150 150 STWD SOFT/HARD 150 STWD SOFT/HARD 150 STWD	120 120 STWD HARD 120 STWD HARD 130 HARD 150 HARD 150 HARD 150 HARD 150 HARD 150 HARD 150 HARD

PART NO.		LIST	DESCRIPTION
	SHOCKS		The same of the same
MX-1075 MX-1175 MX-1225 MX-1300 MX-1350 *MX-1400 SS-1175		54.95 54.95 54.95 54.95 54.95 54.95	MX Shock 10.75" MX Shock 11.75" MX Shock 12.25" MX Shock 13.00" MX Shock 13.50" MX Shock 14.00"
SS-1225 SS-1300 SS-1350		54.95 54.95 54.95 54.95	SS Shock 11.75" SS Shock 12.25" SS Shock 13.00" SS Shock 13.50"
*SS12608 *SS12610 SS13010 SS13308 SS13310		54.95 54.95 54.95 54.95 54.95	Honda Shock 12.60" — 8mm Clevis Honda Shock 12.60" — 10mm Clevis Honda Shock 13.00" — 10mm Clevis Honda Shock 13.33" — 8mm Clevis Honda Shock 13.33" — 10mm Clevis
**SS14020 **SS14500 Springs are no	ot included in abo	59.95 59.95 ove price of	Harley Shock Harley Shock shocks.
	SPRINGS		

	SPRINGS	
t50-STWD 60-STWD	13.95 13.95	
78-STWD 90-STWD	13.95	Srping/78 Straight/White
110STWD 120STWD	15.95 16.95	Spring/110 Straight/Brown
135STWD *150STWD	16.95 16.95	Spring/135 Straight/Purple
6090-PR	16.95 13.95	Spring/150 Straight/Pink Spring/60/90 Progressive/Red
80100PR 90120PR	15.95 15.95	Spring/80/100 Progressive/Orange Spring/90/120 Progressive/Silver
*C80100P *C90120P	20.95 20.95	Chrome/80/100 Progressive/Orange Chrome/90/120 Progressive/Silver
*C120STW *C150STW	21.95	Chrome/120 Straight/Green
**C250STW	21.95 26.95	Chrome/150 Straight/Pink Chrome/250 Straight/Light Blue
- 2		
SOL-250	1.75	8-oz. Shock Oil — Heavy
SOL-251	1.75	8-oz. Shock Oil — Medium



PART NO.	LIST UNIT DESCRIPTION
- V WI	REBUILD ACCESSORIES
SLNT100 RDGD271 ORNG101 ORST102 BUHT300 USP1004	7.50 Seal Nut Assy. 3.95 Rod-Guide 1.00 "O" Ring 1.50 Steel "O" Ring Setting 1.50 Bullet Head Tool 2.50 Universal Spring Preload Washer
1	PISTON RODS
PR-171S PR-171M PR-171H	13.95 Piston Rod Assy. — 171mm soft 13.95 Piston Rod Assy. — 171mm medium 13.95 Piston Rod Assy. — 171mm hard
PR-173S PR-173M PR-173H	13.95 Piston Rod Assy. — 173mm soft 13.95 Piston Rod Assy. — 173mm medium 13.95 Piston Rod Assy. — 173mm hard
PR-178S PR-178M PR-178H	13.95 Piston Rod Assy. — 178mm soft 13.95 Piston Rod Assy. — 178mm medium 13.95 Piston Rod Assy. — 178mm hard
PR-181S PR-181M PR-181H	13.95 Piston Rod Assy. — 181mm soft 13.95 Piston Rod Assy. — 181mm medium 13.95 Piston Rod Assy. — 181mm hard
PR-188S PR-188M PR-188H	13.95 Piston Rod Assy. — 188mm soft 13.95 Piston Rod Assy. — 188mm medium 13.95 Piston Rod Assy. — 188mm hard
COV227S COV227H	COMPRESSION VALVES 4.00 Compression Valve — Soft 4.00 Compression Valve — Heavy
WILL H	UNIVERSAL BUSHING KITS
BU12-10 BU12-08 BU14-12 BU14-10	1.50 Bushing Kit Red 12 to 10mm 1.50 Bushing Kit Red 12 to 8mm 1.50 Bushing Kit Red 14 to 12mm 1.50 Bushing Kit Red 14 to 10mm
BU14-08	1.50 Bushing Kit Red 14 to 8mm

*Available on or before February 28, 1975. **Available on or before March 31, 1975.

†Exclusive for Minicycle MX-1075 universal.

SECONDARY PARTS GROUP

PART NO.	LIST	DESCRIPTION
TM1208B	5.95	SS - Top mounts for 8mm dia, piston rod thread
TM12080	5.95	MX - Top mounts for 8mm dia. piston rod thread
TM1410B	5.95	SS - Top mount for 10mm dia. piston rod thread
TM14100	5.95	MX - Top mount for 10mm dia. piston rod thread
TM1608B	5.95	Honda - Top mount for 8mm dia. piston rod thread
TM16100	5.95	Honda - Top mount for 10mm dia. piston rod thread
SCR1000	2.95	Spring clip retainers — Fits all
ORS1000	1.25	Outer rubber stops — Fits all
SAK1000	4.95	SS - Chrome spring adjusters - 5 way
PLSB100	1.95	SS - Plastic Shock Sleeves - Black
PLS0100	1.95	MX — Plastic Shock Sleeves — Orange
INRS100	1.25	Inner rubber stop — Fits all
ITEM PART	NAME	PART NUMBER

. 1	SHOCK BODY	SKBY-30
2	SHOCK UPPER MOUNT	14 x 10 BLACK SUM140B
		14 x 10 ORANGE SUM1400
		12 x 0B BLACK SUM128B 12 x 0B ORANGE SUM128O
) 3	SPRING RETAINER	SCR-4100
4	SHOCK LOCK NUT ROD/	LN-11610 (NEW) 11/16 x 10
	UPPER MOUNT	LN-5008 1/2 x 08
5	OUTER RUBBER STOP	ORS-1231
6	SEAL-NUT ASSEMBLY	SLNT-100
7	PISTON ROD ASSEMBLY	VARIABLE WITH SHOCK SIZE
8	INNER RUBBER STOP	INRS-923
9	INNER WASHER SEAT	INWS-100
10	ROD GUIDE	RDGD-271
11	STEEL "O" RING SETTING	ORST-102
12	"O" RING	ORNG-101
13	INNER VALVE TUBE	VALT-027
14	COMPRESSION VALVE	CDV227H
		COV227S
16	PLASTIC COVER	PLS-400R

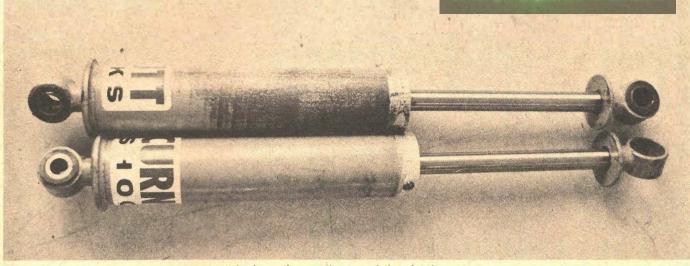
SHOCK SPRING SEAT PRE-SSP-505 16

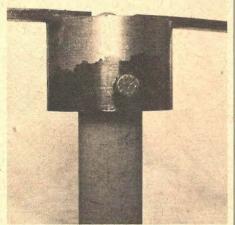
LOAD, 5 POSITIONS (SS SHOCKS)
SPRING 17

VARIABLE UPON SIZE AND RATE

CURNUTT

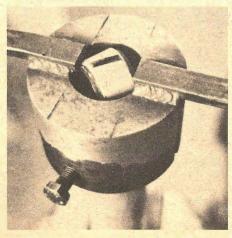
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Remove spring from shock. Care should be taken in removing springs to not scratch the rod. If a screwdriver or any sharp object is used, keep it away from rod.

Remove grommets from shock. The metal insert will press out of the plastic grommet material.



Place the eye of the shock body in a vise making sure that it is held firmly in the jaws with the lower flange of the

body resting on the top of the vise jaws. (This is to avoid leverage on the eye). With pin spanner or strap wrench, remove aluminum seal unit. (Right hand threads used throughout the shock.)



Withdraw rod, piston and seal retainer/ bearing, as a unit, from shock body. Care must be taken not to mar top surface of shock body, as this is a critical sealing surface.

Place upper eye in vise and remove piston with a strap wrench or other suitable tool, taking care not to damage piston. The upper eye may unscrew from the rod instead of the piston, but this does not matter as far as rebuilding goes.

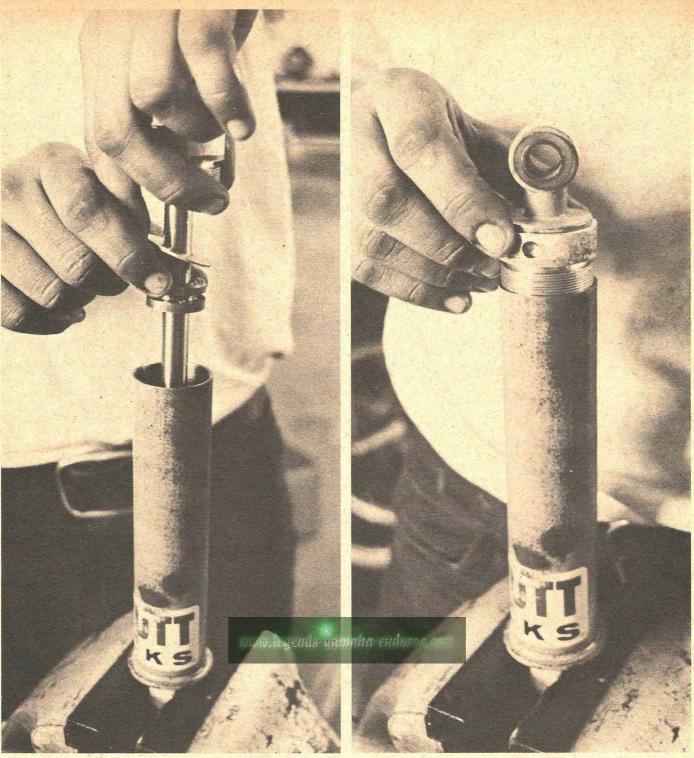
When rod is free from eye or piston, remove seal unit from shaft.

To remove seal, place body of shock in vise as before. Screw seal unit into body 3 or 4 turns. (This is a convenient way to hold seal unit while seal is removed.) Press flat of a sturdy screwdriver under lip of seal. Press in as far as possible. Pry against top of seal unit and seal with pop out. Next remove "O" ring by using a straight pin (scriber, etc.). Push point into "O" ring taking care not to damage sides of "O" ring grooves. Clean "O" ring groove carefully. Check for excessive play of bearing unit on shaft and replace if necessary.

Place new "O" ring into seal unit. Install new seal.



Check rods for wear. If shocks have been leaking for any period of time rod should be checked for wear. Rod lower tolerance is .498. Any rod measuring under this figure will in most cases cause trouble. Rod finish is very important to the life of the seal. If scratches, holes or irregularities occur, seal life will be impaired. Rod polishing is an effective means of returning a good rod finish. This can be done be carefully placing rod threads in the jaw of a drill press. With drill press running polish up and down rod with 400 to 600 grit sandpaper until rod is once against smooth and shiny. When polish is complete, rod size should then be checked. Any rod bent or scratched noticeably should be replaced.



When reassembling, damper unit assembly should consist of top extension-eye, seal retainer/bearing, flat washer, valve (groove facing flat washer) and piston, with groove upward. "O" ring on piston should be replaced. Hold eye in vise and using strap wrench as before, tighten to at least 45 ft. lbs. Before rod is put through seal retainer/bearing, a small amount of shock fluid should be wiped or poured into seal to provide lubrication and prevent seal from sticking initially.

Body of shock should be cleaned thoroughly with soap and water before assembly. Small amount of Permatex should be put on sealing surface of body. Now put body in a vise as before by

holding lower eye. Fill to within 1" of top with Curnutt Shock Fluid. Replace damper unit. As seal retainer/bearing is tightened down push rod to the down position to displace excess fluid. Tighten down lightly. Remove shock from vise and place in boiling water and allow to heat for at least 10 minutes. This will cause oil to expand. Replace shock in vise holding as before and loosen seal retainer/bearing 1/4 turn, again press rod to fully compressed position. This will cause excess oil, which was expanded by heating, to bleed out. Replace grommets, inserts and spring. The shock is now ready for use.

NOTE: The "down damping" of the Curnutt Shock varies according to the make

and model of the machine they were intended to be used on. They cannot be used on other machines unless the damping is correct. The damping is controlled by orifices in the piston of the shock. By placing the correct piston (or damping orifices) the shock can be used on any machine. On heavier or lighter machines, the pre-load of the spring will have to be re-adjusted. The length of the unit can be changed by replacing the top extensions on the rod, with extensions of desired length. These extensions are threaded onto the rod. Piston, extension, etc., can be purchased separately. Charles Curnutt, 75992 Baseline, Twentynine Palms, California 92277. Telephone (714) 367-9179.

- Shocks should compress 3/4" to 1" from full extension when rider is. sitting on machine in normal riding position. Settling should be checked after shocks have had time to loosen up, say two hours riding time. Should shock compress more than one inch, bottoming may occur. If they settle less than 3/4", topping out might occur. One inch is preferable for desert where 3/4" is better for moto-cross.
- Shocks should not bottom or top excessively.
- To test shock, spray light film of WD-40 or anything that will collect dust, on shock rod. This is to leave a record of how far the shock is traveling. Now ride across rough terrain as hard and fast as you would under racing conditions. Avoid any large dips or anything that may cause "G" load bottoming. Shocks should then be examined. Dust mark on the rod should indicate that shocks have been using their full travel, wiping clean to within 1/8" from top of rod. No bottoming should have been noticed by the rider. If they meet these requirements, shocks are adjusted perfectly for the particular machine and rider combination. If shocks had been obviously bottoming, and settling was within the advisable range, this would indicate heavier down damping is necessary. Should they show that they have not used all of their travel by possibly 1/2" to 1", they are too heavily down damped and should be lightened up for maximum performance. This can be done by the individual or by us. There are orfices inside that must be changed a certain amount. If this is attempted by the individual, special instructions should be obtained from us.

A FEW FACTS ABOUT CURNUTT SHOCKS

- Install shocks with rods "up". 1.
- When the rider sits on the machine the 3.7" travel units should 2. compress, from a fully extended position, 3/4" to 1". Under the same circumstances the 4.7" units should compress 1-3/4" to 2". To accomplish this specific settling figure three different length springs are supplied for each travel shock. For the standard travel unit the short spring measures 10-3/4" the medium 11-1/4" and the long 11-3/4". For the long travel units the long 3.7 travel spring is used as the short, the medium measures 12-1/2" and the long 13". On both models "bottoming" will occure if the spring pre-load is too light (settling to far) and "topping out" will occure if the pre-load is to much (not settling far enough). To fine tune the springs for the specific settling required spacer rings placed beneath the spring may be necessary. Spacers are available from us, but another convenient source is a 1-1/2" harness ring which may be purchased at most hardware stores. It may sometimes be referred to as a 1-1/2" Japanned ring. Both will work effectively. One 1/4" ring adjusts for about 25 lbs. The 3/4" - 1" or 1-3/4" to 2" adjustments should be made after a few hours of riding. When shocks are new they may possibly feel tight and tend to stick slightly. This is completely normal and is caused by tight seals and "O" rings. This condition should only last a few hours and diminish as the shocks are broken in.
- Riding the bike with the shocks installed is the only way to test the 3. shocks. "Push down" and "Sit down" tests will be confusing. The Curnutt shock tested in this manner will exhibit the characteristics of a conventional shock that is worn out. If the bike is pushed down abruptly, it will rebound seemingly as if there was no damping. This is normal. Ride them to try them.

WARRANTY

THE CURNUTT SHOCK IS GUARANTEED AGAINST LEAKAGE FOR A PERIOD OF SIX MONTHS ANY SEAL LEAKING WITHIN THIS PERIOD IS CONSIDERED DEFECTIVE AND WILL BE REPAIRED BY US AT NO CHARGE. SHOCKS SHOULD BE SENT BACK TO MANUFACTURER FOR REPAIR.

ANY SHOCK THAT HAS BEEN DISASSEMBLED OR REPAIR HAS BEEN ATTEMPTED WILL NO LONGER BE UNDER WARRANTY.

PARTS PRICES FOR CURNUTT SHOCKS
Rebuild cost \$5.50 pair, plus parts, if needed
Extension eyes \$2.95 each
Shafts-3.7" \$4.25 each
4.7" \$4.50 each
5.7" \$4.95 approx. each
Seal guide \$3.50
Seal guide with seal and O-ring \$5.00
Seal
Small O-ring \$.20
Large O-ring \$.30
Rebuild kit
Piston \$2.50
Valve/floater \$1.25

Washer	\$.35
Body-3.7"	. \$7.50
4.7"	. \$8.00
5.7" \$9.00	
Springs-3.7"	
4.7"	
5.7" \$5.50	
Retainers	
Spacers	
Alloy bushings \$3.00, s	et of 4
Complete Units—3.7" Standard	
3.7" Forward	\$59.95
4.7" Standard	
4.7" Forward	
5.7" Standard \$79.50	

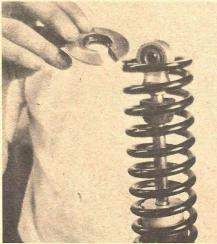
- 1. Keep clean around seal.
- 2. If riding under muddy conditions is done, care would be advisable to keep the shock relatively clean. Should it be a hot day and time between races is sufficient for mud to harden, extreme care should be exercised to clean mud from around top of rod. Mud may collect and possibly harden in this area causing possible damage to seal the next time the shock uses its travel.
- 3. If springs are taken off, avoid scratching the rod. Any scratches of the rod will cause leakage.
- 4. If leakage occurs for any reason, shocks should be rebuilt immediately. Shocks leaking within six months from date of purchase are considered defective and will be repaired at no charge. This excludes damage from crashes or tampering with unit. If they are not rebuilt immediately, unnecessary wear to the internals of the shock will occur making what could have been an inexpensive repair considerably more costly.

If shocks are used constantly for racing, re-building every 4 to 6 months would be advisable even though leakage may not occur. Shock fluid breaks down and the "O" rings may wear making a periodic rebuild to your advantage. If this is done, it is very possible that one set of shocks could last indefinitely for only a few dollars per year.

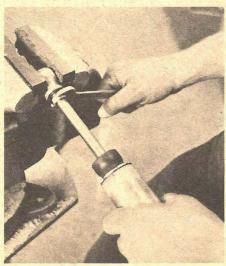
- 6. Grommets in shock should be checked regularly. If they are in bad shape, type tubing used is 5/8" x 7/8" vinyl tubing which can be inexpensively purchased at most hardwares.
- 7. To prevent squeaking of shock and improve shock and spring life, WD-40, silicone sprays, coloidal graphite, or any good lubricant can be put on the body of the shock. Care should be taken not to get lubricant on top of seal causing attraction of dust and dirt to seal area.
- 8. Exhaust pipes should not be mounted as to direct exhaust gases onto the shock.
- 9. Items that may cause leakage include: defective or worn seals, small "O" ring defective or worn, worn or scratched rod, excessively worn top seal assembly (bearing on rod).
- 10. Seals in the unit are Chicago Rawhide No. CR 4985, small "O" ring is a standard commercial type 3/32" x 1/2" x. 11/16", large "O" ring is standard commercial type 1/8" x 1-1/8" x 1-3/8".

HONDA

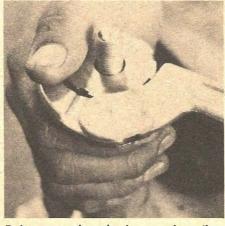




Compress spring, remove clip and spring.



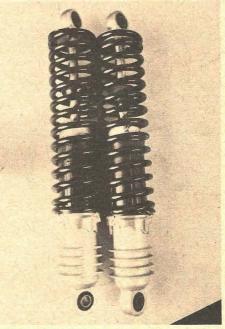
Place top eye in vise and loosen jam nut with 17mm wrench. Remove eye and jam nut.



Before removing shock cap, clean thoroughly through the thread holes. Any dirt present will ruin the threads. Luckily, we had a tool that fit the slotted edges. If you don't, carefully use a large pair of channel locks.



Slide cap up and off of shaft. Twist off slowly at threaded area. A shot of chain lube will help protect the seal from damage.

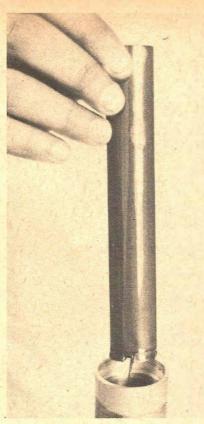




Remove shaft locating unit.



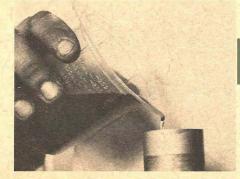
Lift out shaft/piston assembly. Drain oil.



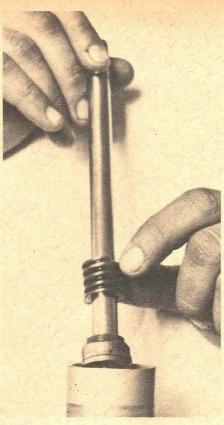
Lift out inner body and clean all parts in solvent. Check for worn or damaged parts. Replace where needed. Refer to specs for part numbers.



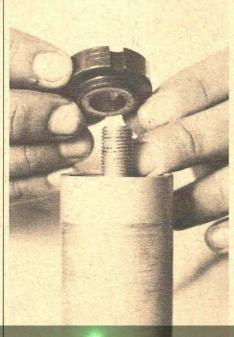
Install inner sleeve back in body. Valve on end of inner body should not be removed and stays firmly in place if left alone.



Pour oil (see specs for amounts) into the outer body.



Install piston shaft assembly back in inner body. Do not push; let it slide in slowly. Make sure top out spring is still in place.

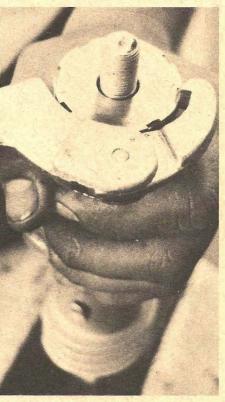


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Install rod guide over depressed shaft.





Thread cap over shaft and tighten. Replace all hardware.

HONDA SHOCK REBUILD PARTS AND NUMBERS

ITI	EM	N	EW			PART			MOD	
NC				NO.	DE		TION		CR2	
1	524	11-	357	-010	GUIDE	, ro	d			2
2	524	12-	357	-010	CASE,	oil	seal			2
3	524	14-	312	2-000	SPRIN	IG, r	ebound	stopper		2
4	524	20-	357	-305	CASE	COM	P., rear	cushion		2
5	524	30-	357	7-305	CYLIN	IDER	ASSY.,	damper		2
6	524	40-	357	-010	ROD	COMP	., damı	per		2
7	912	56-	300	970	OIL-S	EAL,	10x25x	9.5		2
8	913	17-	591	1-005	O-RIN	IG, 30	0.8x1.9			2
			CR	250M	-10002	216 a	nd subs	equent		

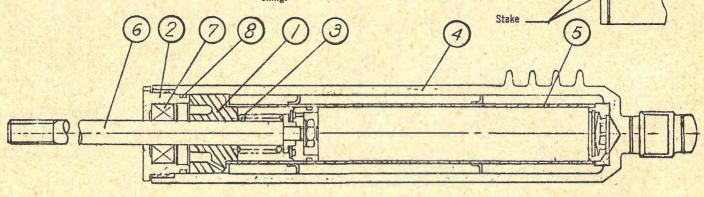
HONDA SHOCK BLOW-UP

CR 250 M-1000216 and subsequent.

The component parts for the rear damper are now available, making it possible to disassemble and make repairs to the damper.

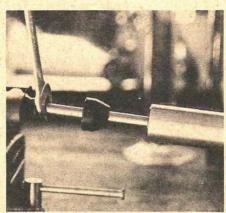
Remarks:

- 1. During repair, exercise care to prevent contamination to the interior components.
- 2. After repair fill cylinder with 102cc quality grade ATF oil. (Automatic transmission fluid)
- 3. Securely stake the oil seal case after tightening.



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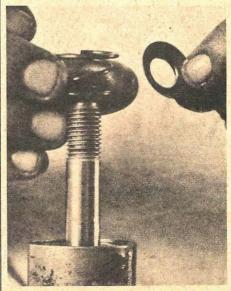
Place eye in vise and loosen jam nut with 19mm wrench. Remove eye and jam nut, then slide off rubber bumper.



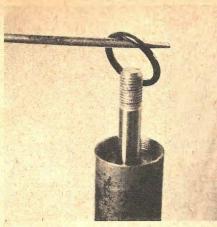
Using special tool, remove cap. Clean cap holes thoroughly before installing pins in spanner tool. Failure to do this could ruin cap.



Slide off cap/seal assembly.



Remove spring and washer from shaft assembly.



Using small screwdriver or pick, pry out O-ring, taking great care not to damage any more than necessary.



Pull shaft locater out.



Remove shaft/piston assembly carefully, while pressing down on inner body. Hold inner body in place and drain oil. Clean all parts in solvent. Do not get any on O-ring or seal if you plan to re-use it.



Check tension nut in foot valve. This must be tight, but must have small movement of flutter valve on opposite side.



Install foot valve on inner vody. Place flat washer on top of foot valve while inner body is held upside down.



Slip outer body over inner body, taking



Place shock back in vise and fill outer body with prescribed amount of oil. This varies from shock to shock. Check specs for amount.



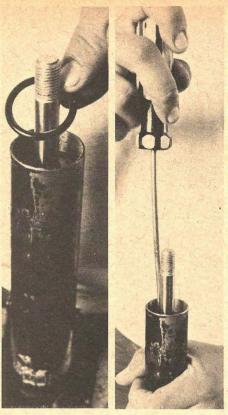
Check bolt in bottom of piston shaft assembly for tightness. Use an 11mm deep socket. This comes loose easily.



Place shaft assembly into inner body and depress gently until oil settles. Let sit for a few minutes to get air out.



Slip locater back in place, making sure it seats firmly in inner body groove.

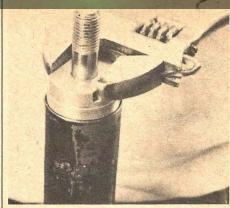


Install O-ring back in place. Press firmly in place with blunt instrument.

KONI GP APPLICATION LIST MAKE/MODEL/CC GP TYPE SPRINGS YEAR BULTACO Sherpa—250-350 Alpina—350 1972-74 76V-1384 240-9.5 or Pursang Mk5/6 125-350 240-14 Matador-250 125 MX-125 175 MX---175 up to 1975 76V-1382 220-11* 250 MX-250 400 MX-400 HUSOVARNA 125 MX—125 250 MX—250 400 MX—400 215-14* and up to 1975 76V-1381 215-20 for 74-75 models KAWASAKI 125 MX—125 250 MX—250 up to 1975 76V-1382 220-11* 450 MX-450 MAICO M-250 MX-250 M-400 MX-400 1970-73 76V-1382 220-11* M-250 MX-250 M-400 MX-400 1974-75 76V-1385 240-18 MONARK MCB 125 Enduro 1971-74 76V-1382 220-11* & Motocross-125 MONTESA Cappra 1972-74 76V-1382 220-11* 250 MX-250 PENTON/K.T.M. 125 MC & GS-125 175 MC & GS-175 1972-74 76V-1382 220-11* 250 MC & GS-250 125 MC & GS-125 175 MC & GS—175 250 MC & GS—250 1975 76V-1385 240-18 SUZUKI TM 250-250 TM 400-400 1972-74 76V-1382 220-11* AHAMAY MX-125-125 MX-250-250 1973-74 76V-1382 220-11* MX-360-360 ZUNDAPP MC-125-125 1972-75 76V-1381 215-14



MODERN CYCLE recommends that you not use the stock Koni seal and cap because it's prone to leakage. We have used the Number One Products Koni cap with great success. The seal is part of the cap and of the spring loaded variety. Put tape over threads, grease lightly and slip the cap in place.



Tighten cap down. Stroke shock and if any air lock is felt, loosen cap and bleed air out.

KONI GP ALUMINUM FINNED SHOCKS

	TYPE 76V-1381	TYPE 76V-1382	TYPE 76V-1384 & 85
L	308mm (12.126")	328mm (12.91")	343mm (13.50")
L1	240mm (9.49")	250mm (9.84")	255mm (10")
L2	218mm (8.58")	228mm (8.97")	238mm (9.37")
A	183mm (7.20")	193mm (7.60")	198mm (7.80")
В	57mm (2.24")	57mm (2.24")	57mm (2.24")
S	206mm (8.11")	214mm (8.45")	229mm (9.40")
D	10.1/12.1mm	8.1/10.1/12.1mm	8.1/10.1/12.1mm
LL	23.5mm	23.5mm	23.5mm

SPRING PART #	FREE HEIGHT	SPRING RATE
215-14	215mm (8.46")	14 kg/cm — 78 lbs./inch
215-20	215mm (8.46")	20 kg/cm — 112 lbs./inch
220-11	220mm (8.66")	11 kg/cm — 62 lbs./inch
220-25	220mm (8.66")	25 kg/cm — 140 lbs./inch
225-20	225mm (8.85")	20 kg/cm — 112 lbs./inch
240-9.5	240mm (9.45")	9.5 kg/cm — 53 lbs./inch
240-14	240mm (9.45")	14 kg/cm — 78 lbs./inch
240-18	240mm (9.45")	18 kg/cm — 101 lbs./inch

KONI ALUMINUM/STEEL CROSS REFERENCE CHART

ALUMINUM GP	STEEL #	MAXIMUM LENGTH	SPRING #	RATES AVAILABLE	SPACER REQUIRED
76V-1381	76F-1277	12"	215 Series	78, 112 lbs. in.	YES
76V-1381	76F-1277	12"	220, 225 Series	62, 112, 140 lbs. in.	NO
76V-1382	76F-1282 Series	12.9"	215, 220 Series	78, 112, 62, 140 lbs. in.	YES
76V-1382	76F-1282 Series	12.9"	225 Series	112 lbs. in.	NO
76V-1384	76F-1283	13.5"	240 Series	101, 78, 53 lbs. in.	NO
76V-1384	76F-1283	13.5"	225 Series	112 lbs. in.	YES
76V-1385 *	76F-1283 *For Maico	13.5" , Penton and	225 Series similar suspensi	112 lbs. in.	YES

KONI Aluminum Motorcycle shocks are \$128.00 per pair.

KONI Motorcycle Springs are \$10.00 per pair.

10mm Aluminum pre-loading spacer KONI #70.29.11.112.0 —

Price \$1.00 each.

*Spacer #70.29.11.112.0 recommended.

KONI MOTORCYCLE SHOCK ABSORBER APPLICATION LIST

MI I LIOI	IIIOII L	
AJS		
250cc Y-40	All	76F-1283
370cc Y-60	All	76F-1282
BENELLI		
250 2C	73/75	- 76F-1277
650 Tornado	72/75	76F-1250SP1*
500	All	76F-1329
	1111	
BMW	55.400	700 1000 5
R50, R60, R69S	55/69	76C-1290 Front
DE0/5 D00/5 D75/5		76C-1291 Rear
R50/5, R60/5, R75/5,		705 1000
R60/6, R75/6,	69/73	76F-1298
R90/6, R90/6S	73/74	76F-1298
BSA		
250, 450, 650	All	76F-1282
500, 750	All	76F-1283
BULTACO		
Sherpa T250, T350,		
Pursang Mk5/6-125-350	72/74	76F-1283*
	, , , ,	701 1200
CZ	70/74	705 1000004#
125, 175, 250, 400 MX	70/74	76F-1282SP4*
DUCATI		
Mark 3 and Desmo		
250, 350, 450,	70/74	76F-1277*
750 GT and Sport	72/74	76K-1330
GUZZI		
V7 750cc & 850cc	All to 74	76F-1297
HARLEY-DAVIDSON		
"SS" 350	73/74	76K-1368
33 350	/3//4	/UN-1300

XL, XLH, XLCH	57/74	76F-1336	NORTON		
KH. KHK	52/56	76F-1336	Commando 750, 850	69/74	76F-1373
HONDA			PENTON		
CB125, CB200	71/75	76F-1374	125cc, 175cc, 250cc	72/76	76F-1282SP30
CB250, CB350, CB360,	/1//5	701-1374		72770	701 120201 00
CB450, CB350F, CB500,			ROKON		
CB550, CB500T, CB400	66/75	76F-1302	MX 340,		
CB750, CB3001, CB400	69/74	76F-1296	MX 340 Cobra	74/75	76F-1283*
Elsinore CR-125M,	69//4	701-1290	ROND-SACHS		
CR-250M, MT-125	29		50, 125 MC and GS	72/73	76F-1250SP1*
and MT-250	73/74	76N-1357	SUZUKI		
aliu M1-250	/3//4	/ON-123/	T250, T350, T500	70/73	76F-1307
HUSOVARNA			GT250, GT380.	70770	701 2007
125, 250, 400 MX,			GT550, GT750	72/74	76F-1307
250 WR, 400 CR	To 75	76F-1277	TS250, TM250,	72777	701-1307
	10 /3	701-12//	TS400, TM400	72/74	76F-1282SP4*
KAWASAKI				12/14	701-1202314
250, 338 Twins	69/72	76K-1303	TRIUMPH		
Mach III H-1, H-1B	All	76K-1303	500, 650, 750	69/73	76F-1282
250cc S-1, 350cc S-2			Tiger 750 TR7V and		
750cc H-2 (Mach IV)	72/74	76F-1326	Bonneville 750 T140V		76F-1250SP1
Z-1	73/74	76K-1343	YAMAHA		
LAVERDA			YDS-7 250, LR-5 350	70/72	76F-1322
750, 1000	70/74	76F-1318	AT-1, 125, CT-1 175,		
MAICO			DT-1 250, RT-1 360	70/72	76F-1322
MX-250, 360, 400	70/72	76F-1282SP20	AT-2, RT-125		
MX 250, 400	73	76F-1282SP20	CT-2, CT-175	73/74	76F-1322
(73 Model requires	13	701-12023120	RD-250, RD-350	73/74	76K-1303
8 1mm bushings)		#70.52.11.341.0	XS-1, XS-2,	71/75	76K-1311
MC-250, MC-400	74	76F-1358	TX-750, TX-650	73/75	76F-1348
	14	/DL-1220	TD-2, TD-3, TR-2,		
MONARK		II.	TR-3, TZ-3	71/74	76K-1314
MCB 125 Enduro, MX	71/74	76F-1282SP4	DT-2, DT-250,		
MONTESA			RT-2, DT-360	73/74	76F-1349
Capra 250 MX	72/73	76F-1282SP20*	MX-250, MX-360	73/74	76K-1335
Cota 125	72/74	76F-1250SP1*	TY 250 Trial,		
Cota 247	69/74	76F-1282SP20*	TY 360 Trial	74	76F-1250SP1

KONI ADJUSTING PROCEDURE

They are supplied with all the necessary fittings for installation inside an existing spring of 1.5-inch inside diameter. After installing the spring, line up the two eyes by turning in a clockwise direction. The KONI shock is now ready for installation.

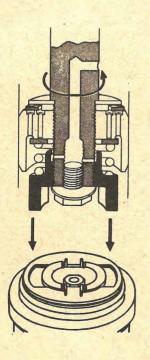
KONIs are delivered pre-set to minimum damping force. Owners are advised to install them at this setting and increase the damping only if it is required. For road racing and sports riding, the range of damping adjustment is wide enough for use on both light and heavier machines and still provide for varying the force to the owner's personal preference or changes in spring rate. KONI damping may be adjusted as follows:

1. Remove spring. Extend the rod to full height

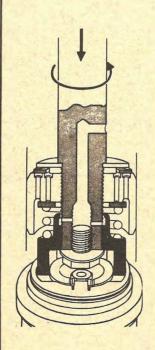
and push the rubber bumper towards the shock body. If it is necessary to slide the bump rubber away from the nut, hold the top eye and twist the rubber down the rod. Be careful not to damage the chromed rod.

- 2. Undo the 3/4" lock-nut below the top eye.
- Unscrew the upper eye mount and the nut and remove the bumper. Replace just top eye and lock-nut to give a hand hold.

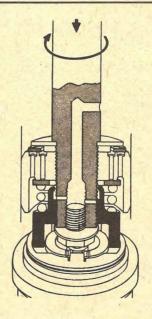




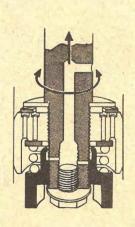
Fully collapse the shock absorber, at the same time turning the piston rod slowly to the left until it is felt that the teeth of the adjuster nut are engaging the recesses of the footvalve assembly.

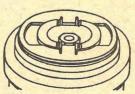


Continue to turn gently to the left until the rotation stops. Do not use force or attempt to turn further to the left, once resistance has been felt. At this point you are assured that shock absorber is in the unadjusted or new position.



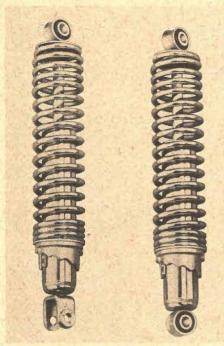
Now keeping the shock absorber collapsed, begin turning in the opposite direction, to the right. You will be able to make four half turns of 180° and a final quarter turn of approximately 90° to full hardness, each one of which is an adjustment compensating for approximately 20,000 miles of riding, depending upon the usage. You will know when you have reached the maximum adjusting position because you will encounter another stop. will encounter Do not force. another stop.



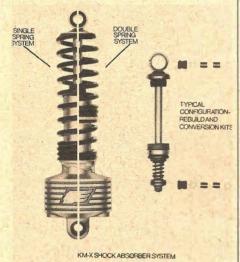


Pull the shock absorber apart Pull the shock absorber apart vertically without turning for about ½" to allow the teeth of the adjuster nut to disengage. The piston rod can now be turned freely. Reassemble in reverse order. Be sure to install the rubber bumper and do not shorten it. The shock absorber will be permanently damaged if the rod is depressed too far when ridden.

RED WING



Red Wing KM-X Shock Absorber and rebuild kit.



Red Wing ROCU heavy duty shock absorbers.

RED WING ROCU KM-X SERIES REBUILD INSTRUCTIONS

- 1. Remove and discard all old eye bushings and spacers.
- 2. Place the ROCU lower eye in a vise.
 - A. Pry the rubber bumper down the shaft about one inch, with the aid of a small screwdriver
 - B. Position the pre-load adjuster to its lowest setting.
 - C. Depress the spring and remove the quick clip. Several good spring depressors are available and it is recommended they be used. However, you may depress the spring by using a pair of long shaft screwdrivers

- inserted in the coils. Be extremely careful! Exercise caution: Do not grip the spring while being depresesd and remove the quick clip with pliers.
- 3. Remove the spring and the spring pre-load adjuster.
- 4. With the Red Wing rebuild tool part no. 12-0900, available from your dealer, remove the packing nut from the outer body. This nut is very tight and will require a good deal of effort to loosen.
- 5. You may now remove the complete piston rod assemby and discard it.
- 6. Remove the inner cylinder from the outer body. The base valve should come out at the same time as the inner cylinder. If not, use caution when dumping the old fluid, so as not to lose the base valve.
- Inspect the inner cylinder at this time for score marks or excessive wear, and if bad, replace it with a new inner cylinder.
- 8. Clean the outer body, inner cylinder and the new piston rod assembly (if possible, in a wash tank) and wipe clean with a lint free rag.
- 9. Install the base valve in the inner cylinder and place this assembly in the outer body.
- 10. Refill with the correct amount of hydraulic fluid as indicated in the table below. Do not use the old fluid.

ROCU	CC	FL. OZ.
KM-X300	136	4.53
KM-X320	139	4.63
KM-X330	142	4.73
KM-X340	148	4.93
KM-X360	157	5.25

- Fill the inner cylinder and insert the new piston rod assembly slowly. Push the piston rod down only far enough to screw in the packing case flush with the top of the outer body. The recommended torque is 300/390 in-lbs., which is tight.
- 11. Reassemble the spring system in the reverse order of removal, again taking due caution when installing the spring clip to prevent pinching any fingers between the spring and the quick clip.
- 12. Insert new rubber bushings. Select the proper new steel bushings and insert them into the rubber bushings.

REBUILDING INSTRUCTIONS FOR **RED WING ROCU KM SERIES**

- 1. Remove and discard all top and bottom eye bushings and spacers.
- 2. Place the lower mounting eye of the ROCU in a vise, camping firmly.

- A. Using a small screwdriver, slide the rubber bumper about halfway down the shaft.
- B. Check spring preload adjuster and turn counter-clockwise as far as it will go. (The spring now has the lowest pre-load and will be easier to remove.)
- C. Depress the spring using a "Vise-Grip" type spring depressor and remove the quick clip. If a spring depressor is not available, have someone assist you by removing the quick clip as you depress the spring using both hands.
- 3. Remove the spring, lower locating ring, and spring pre-load adjuster.
- 4. Unscrew the packing nut using a Red Wing rebuild tool Part No. 12-0900 available through your Red Wing dealer, or equivalent tool, such as an adjustable face spanner.
- 5. The complete piston rod assembly may now be removed and discarded.
- 6. Remove the ROCU from the vise and pour out the used hydraulic fluid. Remove the inner cylinder and base valve assembly. Examine the inside surface of the cylinder, and if worn or scored, replace. Clean inside of shock absorber with new fluid and a clean, lint-free cloth.
- 7. Insert the base valve assembly in the inner cylinder and place this in the outer shell.
- 8. Refill your shock absorber with the correct amount of hydraulic fluid from the chart below. It is recommended that you always use new hydraulic fluid for the refill, as the original fluid may be unusable. It is preferable to use a temperature stable fluid.

SHOCK ABSORBER	CC	FL. OZ.
KM-S300	85cc	2.87
KM-S310	83.5cc	2.82
KM-S320	90.5cc	3.06
KM-S330	89cc	3.0
KM-S340	92cc	3.11
KM-C300	77cc	2.60
KM-C310	80cc	2.70
KM-C320	83cc	2.80
KM-C330	85.5cc	2.89
KM-C340	88.5cc	3.0

Fill the inner cylinder and insert the new piston rod assembly slowly. Push the piston rod down only far enough to screw in the packing case flush with top of outer shell. Do not overtighten. (Recommended torque is 300-390 in. lbs.)

- 9. You are now ready to reassemble the spring system in the following order:
 - A. Spring Pre-load Adjuster in a Full Counter Clockwise Position.
 - B. Spring Locating Ring.
 - C. Spring (Small Diameter Up)
 - D. Spring Quick Clip.
- 10. Insert new rubber bushings. Select proper steel bushings, the same size as discarded (10mm or 12mm).

RED WING SPRINGS ADAPT TO THESE SHOCK ABSORBER MODELS:

CCS/CRS-R2

Girling clips.

BETOR To mount Red Wing springs. discard Betor clip and spring end caps. Use Red Wing upper spring clip no. 12-0140 and Red Wing lower spring guide

MODEL	SPRING RATE	FREE LENGTH	COLOR**	RED WING SPRING
All EX Series	60/90 70/100	8 1 / 4" 8 1 / 4"	Blue	CCS/CRS-R1 CCS/CRS-01
EX Selles	80/110	8 1 / 4"	White Yellow	CCS/CRS-C1
HOV 115	90/110	81/4"	Red	CCS/CRS-U1
All	60/90	93/4"	Blue	CCS/CRS-R2
M Series	70/100	93/4"	White	CCS/CRS-O2
	80/110	9 3/4"	Yellow	CCS/CRS-C2
	90/110	9 3/4"	Red	CCS/CRS-U2
	100	9 3/8"	Green	CCS/CRS-X2
	120	9 3/8"	Grey	CCS/CRS-Y2
	145	93/8"	Silver	CCS/CRS-Z2

BOGE Use Red Wing lower spring guide 12-0150 Use Boge upper spring clip 12-0140

60/90

MX-1075

	70/100 80/110 90/110		White Yellow Red	CCS/CRS-02 CCS/CRS-C2 CCS/CRS-U2
MX-1175	(SAME AS M	X-1075)		P Avion
MX-1225	60/90	93/4"	Blue	CCS/CRS-R2
	70/100	9 3/4"	White	CCS/CRS-O2
	80/110	93/4"	Yellow	CCS/CRS-C2
	90/110	93/4"	Red	CCS/CRS-U2
	100	9 3/8"	Green	CCS/CRS-X2
	120	9 3/8"	Grey	CCS/CRS-Y2
	145	9 3/8"	Silver	CCS/CRS-Z2

Blue

93/4"

MX-1300	(SAME AS MX-1225)
MX-1350	(SAME AS MX-1225)
SS-1175	(SAME AS MX-1075)
SS-1225	(SAME AS MX-1225)
SS-1300	(SAME AS MX-1225)
SS-1350	(SAME AS MX-1225)
SS-13310	(SAME AS MX-1225)
SS-13010	(SAME AS MX-1225)
SS-13308	(SAME AS MY-1225)

GIRLING 1. Discard chrome spring cover where used. 2. Use Red Wing lower spring guide 12-0150

3. Use Red Wing upper spring guide 12-0140 in addition to normal

MODEL	SPRING	FREE	COLOR	RED WING
	RATE	LENTH	CODE	SPRING
2042	60/90	8 1/4"	Blue	CCS/CRS-R1
	70/100	8 1/4"	White	CCS/CRS-01
	80/100	8 1/4"	Yellow	CCS/CRS-C1
	90/100	8 1/4"	Red	CCS/CRS-U1
2059 2029 2328	(SAME AS 2042) (SAME AS 2042) (SAME AS 2042)			
2334	60/90	9 3/4"	Blue	CCS/CRS-R2
	70/100	9 3/4"	White	CCS/CRS-02
	80/110	9 3/4"	Yellow	CCS/CRS-C2
	90/110	9 3/4"	Red	CCS/CRS-U2
	100	9 3/8"	Green	CCS/CRS-X2
	120	9 3/8"	Grey	CCS/CRS-Y2
	145	9 3/8"	'Silver	CCS/CRS-Z2

RS-U2 RS-X2 RS-Y2 RS- Z 2	4726 4927
15-22	

KONI -Use Red Wing lower spring guide

Use Koni upper spring clip						
Total Control	SPRING	FREE	COLOR	RED WING		
MODEL	RATE	LENGTH	CODE	SPRING		
76F-1250	60/90	9 3/4"	Blue	CCS/CRS-R2		
	70/100	93/4"	White	CCS/CRS-O2		
A VI	80/110	9 3/4"	Yellow	CCS/CRS-C2		
	90/110	93/4"	Red	CCS/CRS-U2		
	100	9 3/8"	Green	CCS/CRS-X2		
	120	9 3/8"	Grey	CCS/CRS-Y2		
	145	9 3/8"	Silver	CCS/CRS-Z2		
76F-1277	(SAME AS 76F-1	250)				
76F-1282	(SAME AS 76F-1					
76F-1283	60/90	93/4"	Blue	CCS/CRS-R2		
	70/100	9 3/4"	White	CCS/CRS-O2		
	80/110	9 3/4"	Yellow	CCS/CRS-C2		
	90/110	93/4"	Red	CCS/CRS-U2		
	100	9 3/8"	Green	CCS/CRS-X2		
	120	9 3/8"	Grey	CCS/CRS-Y2		
	145	93/8"	Silver	CCS/CRS-Z2		
76F-1296	(SAME AS 76F-1	250)				
76F-1287	60/90	9 3/4"	Blue	CCS/CRS-R2		
(Note: Do Not	70/100	93/4"	White	CCS/CRS-O2		
Use In Lowest Pre	80/110	9 3/4"	Yellow	CCS/CRS-C2		
Load Setting)	90/110	9 3/4"	Red	CCS/CRS-U2		
76F-1302	60/90	8 1/4"	Blue	CCS/CRS-R1		
	70/100	81/4"	White	CCS/CRS-O1		
	80/110	8 1/4"	Yellow	CCS/CRS-C1		
	90/110	8 1/4"	Red	CCS/CRS-U1		
76F-1307	60/90	8 1/4"	Blue	CCS/CRS-R1		
	70/100	81/4"	White	CCS/CRS-O1		
	80/110	8 1/4"	Yellow	CCS/CRS-C1		
	90/110	81/4"	Red	CCS/CRS-U1		
	100	77/8"	Green	CCS-CRS-X1		
	120	7 7/8"	Grey	CCS/CRS-Y1		
	145	7 7/8"	Silver	CCS/CRS-Z1		
76F-1322	(SAME AS 76F-1	307)				
	the state of the s			100.00		
76K-1314	100	7 1/4"	Green	JOS-SO		
	120	7.1/4"	Grey	JOS-TO		
	145	71/4"	Silver	JOS-UO		
76K-1343	(SAME AS 76F-1	250)				

COLOR

Blue White

Red

Yellow

SPRING FRFF MODEL RATE LENTH (SAME AS 2042) 2452 2480 (SAME AS 2042)

2487 2527 2528 2531 2535	(SAME AS 2334) (SAME AS 2042) (SAME AS 2042) (SAME AS 2042) (SAME AS 2334)	
4475	60/90 70/100 80/110	93/93/

	90/110	9 3/4"
4726	(SAME AS 2042)	
4927	(SAME AS 2334)	

Available at nominal cost from RW distributor. Upper clip 12-0140

93/4"

Lower guide 12-0150

CCS/CRS-R2 CCS/CRS-02

CCS/CRS-C2

CCS/CRS-U2

RED WING

SPRING

pw.legends-vamgha-enduros

USE OF HYDRAULIC FLUID COMPARISON CHART

The heavier type domestic American hydraulic fluids will give increased damping over the fluid supplied with Red Wing Rear Oil Cushion Units and Red Wing front forks. The chart below shows how the various weights of two popular American fluids increase the damping of Red Wing suspension

71/2

19%

components by specific percentages over the original damping characteristics. To increase the rebound damping characteristics of your Red Wing ROCU's and front fork select a different oil in stages. As an example, too much rebound in motocross riding will cause loss of control and traction.

Hydraulic fluid comparison chart

5

14%

RED WING FACTORY SUPPLIED FLUID BY WEIGHT*

RED WING ROCU

RED WING

HX-Z, HR-Z

HS-Z

MS-Z

LUBRITECH NUMBER

CASTROL NUMBER* PERCENT INCREASE OF REBOUND DAMPING OVER FACTORY SUPPLIED FLUID

20 30 40 50 10 20 30 40 50 10 40% 27% 42% 55% 52% 21% 19% 33% 66% 90% 104% 66% 104% 15% 30% 60% 35% 78% 85% 14% 32% 50% 86% 113% 93% 11% 20% 62% 70% 10% 21% 29% 68%

^{*}Lubritech and Castrol, two fluids tested by Red Wing, are among several suitable for use Please avoid any fluid which might cause internal corrosion. Please also avoid the use of any fluid of a heavier viscosity than you absolutely need. Remember, the heavier the fluid, the more it will thin out as the temperature increases. Further, the heavier fluids will heat up faster than the lighter fluids. It is important to note that the damping forces of the ROCU

will remain much more constant over a large temperature range with the use of the lighter viscosity fluids. The object of any finely tuned suspension system is to reduce the variation of the system as it encounters changes due to weather and terrain.

^{**}Fluid capacities for Red Wing suspension components are listed on their respective catalog pages

HOW TO DETERMINE THE CORRECT LENGTH SPRING FOR YOUR SHOCK ABSORBER

CHART 2

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- (1) Measure distance B with the shaft in a fully extended position and the preload adjuster cam in its minimum (lowest) position
- (2) Refer to the specification sheet on the opposite page for correct spring selection, i.e., rates/ID/OD, etc. The Red Wing optional spring should be as long or longer than length "B" plus the preload requirement.*

Example

Length "B" (measured from customer's

shock absorber)

Preload requirement CCS-C1 80/110

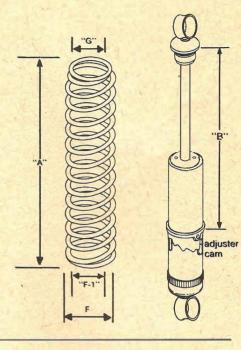
Since spring Model No CCS-C1 free length is 8 1/4" this will be satisfactory. The spring will be compressed 3/4" on the shock absorber and therefore the installed preload will be 80 lbs. x 3/4 in.

7 1/2"

"Pre-load Requirement" is the minimum compression allowable when the spring is mounted on the shock absorber.

IMPORTANT:

Spring dimensions and diameters, outside and inside, are important; therefore, you must be sure the specifications listed on the following chart are compatible with the shock absorber you have



RED WING OPTIONAL SPRING SPECIFICATION

	RED WING	RATE	"A"	F	"F-1"	"G"	"H"	Preload*	Each Position**	Color
	NO.	LBS.	Free Length	O.D.	I.D.	Upper End	Wire diameter	Requirement	Preload Adj.	(See Note 2)
	CCS/CRS-R1	60/90	8 1/4"	2 1/4"	1 3/4"	15/8"	6,5mm	1/2"	10 lbs.	Blue
	CCS/CRS-R2	60/90	93/4"	2 5/16"	1 3/4"	15/8"	6.8mm	1/2"	10 lbs.	Blue
Two Stage	CCS/CRS-01	70/100	8 1/4"	21/4"	1 3/4"	1 5/8"	6,5mm	1/2"	11 lbs.	White
(Single	CCS/CRS-02	70/100	93/4"	2 5/16"	1 3/4"	1 5/8"	7.0mm	1/2"	11 lbs.	White
Spring)	CCS/CRS-C1	80/110	81/4"	2 5/16"	1 3/4"	1 5/8"	6.8mm	1/2"	12 lbs.	Yellow
	CCS/CRS-C2	80/110	93/4"	2 3/8"	1 3/4"	15/8"	7.3mm	1/2"	12 lbs.	Yellow
	CCS/CRS-U1	90/110	8 1/4"	2 5/16"	1 3/4"	15/8"	7.0mm	1/2"	14 lbs.	Red
	CCS/CRS-U2	90/110	9 3/4"	2 3/8"	1 3/4"	1 5/8"	7.5mm	1/2"	14 lbs.	Red
	CCS/CRS-X1	100	77/8"	2 5/16"	1 3/4"	1 5/8"	7.0mm	1/4"	16 lbs.	Green
	CCS/CRS-X2	100	9 3/8"	2 3/8"	1 3/4"	1 5/8"	7.3mm	1/4"	16 lbs.	Green
Linear	CCS/CRS-Y1	120	77/8"	2 3/8"	13/4"	15/8"	7.5mm	1/4"	19 lbs.	Grey
	CCS/CRS-Y2	120	93/8"	2 3/8"	1 3/4"	1 5/8"	8.0mm	1/4"	19 lbs.	Grey
	CCS/CRS-Z1	145	7 7/8"	27/16"	1 3/4"	1 5/8"	8.0mm	1/4"	23 lbs.	Silver
	CCS/CRS-Z2	145	9 3/8"	2 1/2"	1 3/4"	1 5/8"	8.5mm	1/4"	23 lbs.	Silver
7-11						100			The same of	(See Note 3)
	JOS-P0	70/130	7 1/4"	2 7/16"	1 7/8"	1 5/8"	6.5mm	3/8"	24 lbs.	Black/Grey Dot
	JOS-P2	70/130	8"	2 1/2"	1 7/8"	1 5/8"	6.8mm	3/8"	24 lbs.	Black/Grey Dot
	JOS-P3	70/130	8 7/16"	2 1/2"	1 7/8"	1 5/8"	7.0mm	3/8"	24 lbs.	Black/Grey Dot
Two Stage	JOS-P4	70/130	8 7/8"	2 1/2"	17/8"	15/8"	7.0mm	3/8"	24 lbs.	Black/Grey Dot
(Double	JOS-P6	70/130	9 5/8"	2 1/2"	1 7/8"	1 5/8"	7.3mm	3/8"	24 lbs.	Black/Grey Dot
Spring See	JOS-R0	90/115	71/4"	2 7/16"	1 7/8"	1 5/8"	6.8mm	3/8"	22 lbs.	Black/Red Dot
Note 1)	JOS-R2	90/115	8"	2 1/2"	1 7/8"	1 5/8"	7.0mm	3/8"	22 lbs.	Black/Red Dot
	JOS-R3	90/115	87/16"	2 1/2"	1 7/8"	1 5/8"	7.3mm	3/8"	22 lbs.	Black/Red Dot
	JOS-R4	90/115	87/8"	2 1/2"	1 7/8"	15/8"	7.3mm	3/8"	22 lbs.	Black/Red Dot
	JOS-R6	90/115	9 5/8"	2 1/2"	1 7/8"	1 5/8"	7.5mm	3/8"	22 lbs.	Black/Red Dot
	JOS-S0	100	71/4"	2 7/16"	1 7/8"	1 5/8"	7 mm	3/8"	20 fbs.	Black/Green Dot
	JOS-S2	100	8"	2 1/2"	1 7/8"	1 5/8"	7.5mm	3/8"	20 lbs.	Black/Green Dot
	JOS-S3	100	8 7/16"	2 1/2"	1 7/8"	1 5/8"	7.5mm	3/8"	20 lbs.	Black/Green Dot
	JOS-S4	100	87/8"	2 1/2"	1 7/8"	1 5/8"	7.5mm	3/8"	20 lbs.	Black/Green Dot
	JOS-S6	100	9 5/8"	2 1/2"	1 7/8"	1 5/8"	7.5mm	3/8"	20 lbs.	Black/Green Dot
	JOS-TO	120	7 1/4"	2 1/2"	1 7/8"	1 5/8"	7.5mm	3/8"	24 lbs.	Black/Yellow Dot
	JOS-T2	120	8"	2 1/2"	1 7/8"	1 5/8"	7.5mm	3/8"	24 lbs.	Black/Yellow Dot
Linear	JOS-T3	120	8 7/16"	2 1/2"	17/8"	15/8"	8.0mm	-3/8"	24 lbs.	Black/Yellow Dot
	JOS-T4	120	8 7/8"	2 1/2"	1 7/8"	1 5/8"	8.0mm	3/8"	24 lbs.	Black/Yellow Dot
	JOS-T6	120	9 5/8"	2 1/2"	1 7/8"	1 5/8"	8.0mm	3/8"	24 lbs.	Black/Yellow Dot
	JOS-U0	145	7 1/4"	2 1/2"	1 7/8"	1 5/8"	8.0mm	3/8"	28 lbs.	Black/Blue Dot
	JOS-U2	145	8"	2 1/2"	1 7/8"	15/8"	8.0mm	3/8"	28 lbs.	Black/Blue Dot
	JOS-U3	145	8 7/16"	2 1/2"	1 7/8"	1 5/8"	8.0mm	3/8"	28 lbs.	Black/Blue Dot
	JOS-U4	145	8 7 / 8"	2 1/2"	1 7/8"	1 5/8"	8.5mm	3/8"	28 lbs.	Black/Blue Dot
	JOS-U6	145	9 5/8"	2 1/2"	1 7/8"	1 5/8"	8.5mm	3/8"	28 lbs.	Black/Blue Dot

^{* &}quot;Preload requirement" (as opposed to preload adjustment) is the minimum compression of the spring allowable when mounted on the shock absorber

Note 1 includes the width of the KMX spring separator part no. 13-1160. For use with other brand shocks, Red Wing two spring systems require this separator. It is available from your Red Wing distributor

Important: The inside Diameter of the separator is 1.67 inches (42.5mm)

Note 2 All Red Wing springs for KMS/C shock absorbers (models R, O, C, U, X, Y, Z) are available in chrome (chrome models are designated CRS).

Note 3 All Red Wing springs for KM-X shock absorbers (P,R,S,T,U) are painted black with identifying color dots as shown

^{**}Preload adjuster is the amount of preload capacity that may be applied to each shock absorber using the cam. See "preload increments" in the glossary



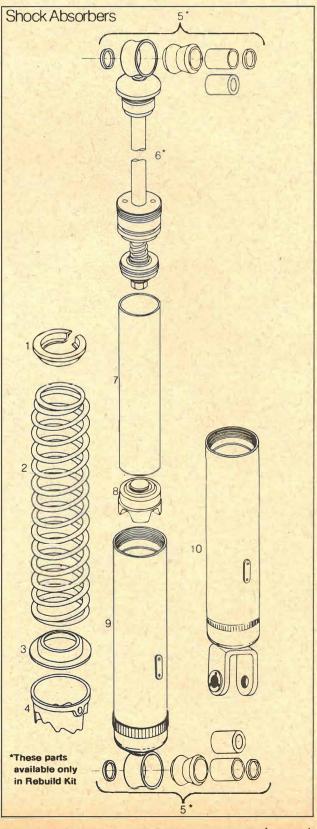
SPECIFICATIONS

	KM-	KM-	KM-	KM-	KM-
	S300/	S310/	S320/	S330/	S340/
	C300	C310	C320	C330	C340
LENGTH	11-3/4"	12-1/4"	12-5/8"	13"	13-3/8"
			nart for Applic	ation to Spec	ific
	Motorcycles	s and Model	Years.		
NECESSARY	10 mm 8	12 mm (fo	r 3/8" and	7/16" holts) included
EYE BUSHINGS	3/4"	3/4"	3/4"	3/4"	3/4"
EYE WIDTH			e with 7/8" n		3/4
STROKE:	Орасст3 пк	Sidded for do	C 44/(11770 11	loanting.	
KM-S Models	3".	3-3/8"	3-3/8"	3-3/4"	4"
KM-C Models	3"	3-1/8"	3-3/8"	3-1/2"	3-3/4"
SPRING LENGTH	7-7/8"	7-7/8"	7-7/8"	9-3/8"	9-3/8"
SPRING OUTSIDE DIAMETER	2-1/4"	2-1/4"	2-1/4"	2-1/4"	2-1/4"
STANDARD SPRING	C L	A 170	No. of the last		
RATE			60/90 lb.		
	See Option	al Spring Ca	talog Page fo	r Additional I	Rates.
	Carina			10 lb :=====	3
SPRING PRELOAD			ments are in first position		
ADJUSTMENT (STATIC WEIGHT LOAD	position. T	he standard	spring prelo	ad for Red.V	Wing shock
PER SPRING):		is 50 lbs. (Position thre	ee). See illu	stration on
	this page.				3 3 6
OIL CAPACITY:			317	100	7/17
KM-S Models	85cc	83.5cc	90.5cc	89cc	92cc
	±1/200	± 1/2CC	± 1/2CC	±1/2CC	± 1/2CC
1/A4 O A4- d-1-	(2.9 oz.)	(2.8 oz.)	(3.1 oz.)	(3 oz.)	(3.2 oz.)
KM-C Models	77cc ±½cc	80cc ± 1/2cc	83cc ± ½cc	85.5cc ±½cc	88.5cc ± ½cc
	(2.6 oz.)	(2.7 oz.)	(2.8 oz.)	(2.9 oz.)	(3 oz.)
	(2.0 02.)	(2.7 02.)	(2.0 02.)	(2.0 02.)	(3 02.)
SHIPPING WEIGHT PER PAIR	8 lbs.	8-1/2 lbc	8-1/2 lbs.	9 lbs.	9 lbs.
SHAFT DIAMETER	12.5 mm	12.5 mm	12.5 mm	12.5 mm	12.5 mm
	(1/2")	(1/2")	(1/2")	(1/2")	(1/2")

Reference No.	1	2	3	4	5/6	7	8	9
Model	Quick- Clip	Chrome Spring 60/90	Locating Ring	Preload Adjuster	Rebuild Kit	Cylinder	Base Valve	Outer Shell
KM-S300		10-0210			RK-1	10-0110		10-0120
KM-S310		10-0210			RK-2	10-0110		10-0120
KM-S320		10-0210			RK-2	10-1110		10-1120
KM-S330		10-1210			RK-3	10-1110		10-1120
KM-S340	40	10-1210	90	9	RK-4	10-0110	30	10-2120
	12-01		12-01	12-016			2-013	10
KM-C300	2	10-0210	12	12	RK-1	10-3110	- 2	10-3120
KM-C310		10-0210			RK-5	10-4110		10-4120
KM-C320		10-0210			RK-2	10-0110		10-5120
KM-C330		10-1210			RK-6	10-5110		10-6120
KM-C340		10-1210			RK-3	10-1110	,	10-7120

5/6
FITS
KM-S300 KM-C300
KM-S310 KM-S320 KM-C320
KM-S330 KM-C340
KM-S340
KM-C310
KM-C330

- All Necessary Parts to Rebuild 1 Shock Absorber.
 Includes Complete Shaft Assembly with Seals and Rings.
- All Eye Bushings and Spacers.
- Rubber Eye Grommets.
- A Kit for Every Red Wing KM-S or KM-C Shock Absorber.



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SPECIFICATIONS		150			3800
LENGTH:	KM-X 300 11-3/4" See length/fi for correct s			KM-X 340 13-3/8" Ride Guide	KM-X 360 14- 1/4"
NECESSARY EYE BUSHINGS: EYE WIDTH	10 mm & 1 3/4" Spacers incl	3/4"	3/4"	7/16" bolts 3/4" jounting) included 3/4"
STROKE:	3.15"	3.54"	3.74"	4.0"	4.13"
SPRING LENGTH:	4.21"	5.00"	5.39"	5.79"	6.58"
SPRING OUTSIDE DIAMETER:	2.38"	2.41"	2.42"	2.42"	2.44"
OPTIONAL SPRING RATES FOR ALL MODE			• R(90/11 20lbs) • U	15 lbs) • S((145 lbs)	(100bs)
SPRING PRELOAD ADJUSTMENT (STATIC WEIGHT LOAD PER SPRING):	See	Red Wing 'F	Ride Guide [*] f	or preload in	ncrements.
OIL CAPACITY:	136 cc 4.08 oz.	142 cc 4.26 oz.	145 cc 4.35 oz.	148 cc 4.44 oz.	157 cc 4.71 oz.
SHIPPING WEIGHT PER PAIR	8-1/2 lbs	8-3/4 lbs	9-1/2 lbs	9-1/2 lbs	10- 1/2bs
SHAFT DIAMETER:	12.5 mm (1/2")	12.5 mm (1/2")	12.5 mm (1/2")	12.5 mm (1/2")	12.5 mm (1/2")

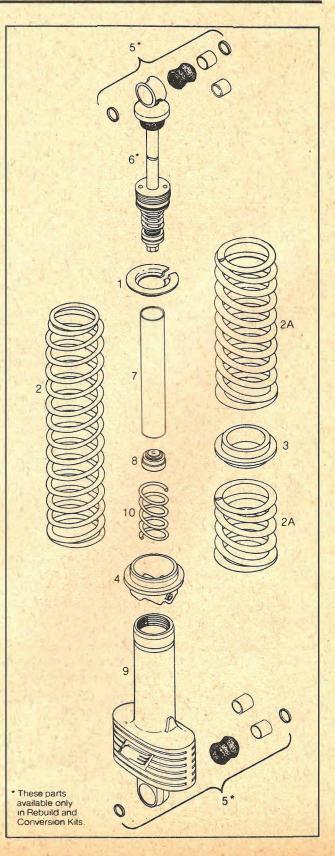
Reference No.	1	2/2A	3	4	5 6	7	8	9	10
Model	Quick Clip	Chrome Spring 70/30	Spring Separa- tor	Pre- load Ad- juster	Rebuild and Con- version Kits	Cylin- der	Base Valve	Outer Shell	Anti- Aeration Spring
KM-X300 KM-X320 KM-X330 KM-X340 KM-X360	12-0140	10-1320 10-1330 10-1340 10-1350 10-1360	13-1-160	13-0260	Available for all models (see below)	10-3110 10-0110 10-5110 10-1110 10-6110	12252 20501 13-1130 13-1130 13-1130	13-0140 13-0160 13-0170 13-0180 13-0190	10-1300

Reference No. 2/2A Optional Springs-model numbers

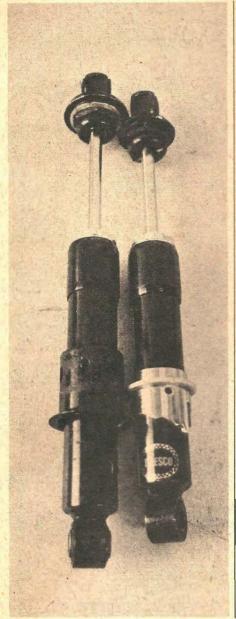
ROCU Model	P(70/130 lbs)	R(90/115 lbs)	S(100 lbs)	T(120 lbs)	U(145 lbs.)
KM-X300	JOS-P0	JOS-R0	JOS-S0	JOS-TO	JOS-U0
KM-X320	JOS-P2	JOS-R2	JOS-S2	JOS-T2	JOS-U2
KM-X330	JOS-P3	JOS-R3	JOS-S3	JOS-T3	JOS-U3
KM-X340	JOS-P4	JOS-R4	JOS-S4	JOS-T4	JOS-U4
KM-X360	JOS-P6	JOS-R6	JOS-S6	JOS-T6	JOS-U6

ROCU MODEL	STANDARD MOUNT ENDURO/MOTO-X KIT (USES JOS-P/R/S/ T/U SPRINGS)	FORWARD MOUNT** MOTO-X (USES JOS-S/T/U SPRINGS)	CAFE/ROAD RACE TOURING (USES JOS-S/T/U SPRINGS)
KM-X 300	KX-0	FMX-0	CRX-0
KM-X 320	KX-2	FMX-2	CRX-2
KM-X 330	KX-3	FMX-3	CRX-3
KM-X 340	KX-4	FMX-4	CXR-4
KM-X 360	KX=6	FMX-6	CRX-6

**Note Warranty remains in effect only if recommended springs (see Red Wing Ride Guide available at dealer), and prescribed conversion kit (see above) are used. Red Wing lever ratio must be between 1.5 and 1.7 when mounted (see FM-X conversion kit package for instructions).



TELESCO





Compress spring and loosen large nut under shock eye. Hold eye in place with strong screwdriver or similar Instrument. This usually takes more hands than you have. Get a friend.



Loosen large cap on body of shock. A large crescent will do an adequate job, but the right size wrench is better. We had nothing that would fit-hence the cruder tool.



Remove cap from body by unscrewing. Do this slowly. If grinding is felt, dirt is present and must be cleaned out to prevent ruining the cap. Slide cap up and off of shaft.



Remove oil retaining sleeved cup from body and slide upward over depressed shaft.



Pull out shaft. Poppet will stay on end of shaft.

SPECIFICATIONS: TELESCO "CROSS"

SHOCKS Part #	Length (eye to eye)	Weight	Oil Capacity	Travel	Rebuild Kit #	Retail Price Per Pair
A41-0001	305mm (12")	27 ozs.	56cc	31/2	A41-1001	\$44.00
A41-0002	315mm (12.4")	27 ozs.	57cc	31/2	A41-1002	\$44.00
A41-0003	330mm (13")	27 ozs.	62cc	31/2	A41-1003	\$44.00
A41-0004	340mm (13.4")	27 ozs.	64cc	31/2	A41-1004	\$44.00

SPRINGS

Part #	Length	Rate	Color Code	Retail
A42-0001	210mm (8.25")	55 lb.	Red	\$3.50 ea.
A42-0002	210mm (8.25")	75 lb.	Green	\$3.50 ea.
A42-0003	210mm (8.25")	90 lb.	Yellow	\$3.50 ea.
A42-0004	210mm (8.25")	110 lb.	White	\$3.50 ea.

- Shocks are supplied without springs.
- Shocks are supplied with 10mm and 12mm eye bushings.
- Each pair of shocks comes with spring adjustment tool.



Pull out inner body (sleeve) and drain. Clean all parts thoroughly and check

Replace worn or damaged parts (seal, ring, etc.) with proper kit. See enclosed numbers for appropriate shock.



When re-installing inner body, make sure washer placement is centered.



Hold inner body upside down and slowly slide housing over it, making sure that locating washer is not disturbed.



Place shock back in vise and place in specified amount of oil. See chart for the right numbers.



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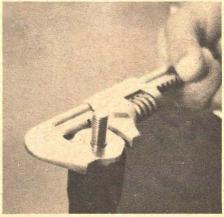
Install piston shaft assembly. By gently using small screwdriver, piston ring can be compressed to allow unit to slip in. ware.





Slip oil retaining sleeved cup over compressed shaft. Do this gently to keep oil from surging out. Make sure oil retaining sleeve is centered over inner body.

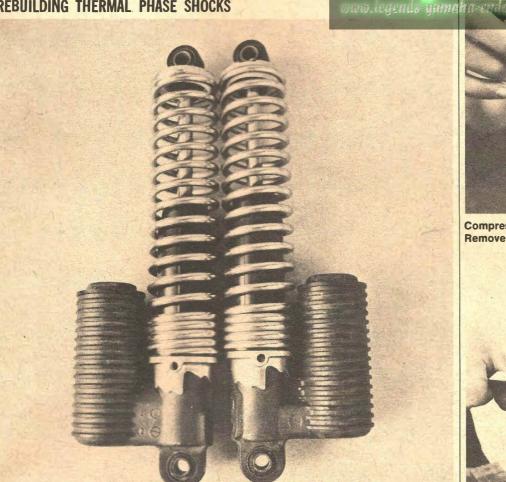




Install cap seal nut assembly over compressed shaft. Tighten and replace hard-

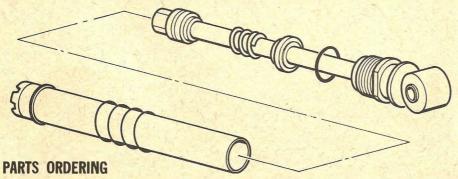
THERMAL PHASE

REBUILDING THERMAL PHASE SHOCKS

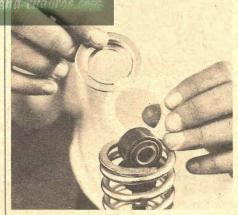




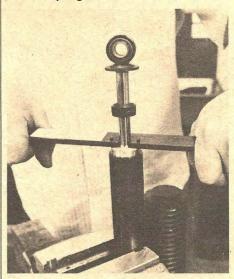
Replacement Cylinder Rod Assemblies for 1974 thermal phase shock absorbers are now available. Refer to Motorcycle News Bulletin No. 317 for installation procedure.

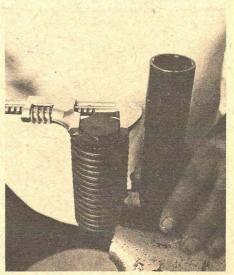


MODEL	PART NUMBER	DESCRIPTION	PRICE/DISC.
MX100A	427-22250-09-00	Cylinder Rod Assy.	\$14.88-N
MX125A/175A/YZ125A	401-22250-09-00	Cylinder Rod Assy.	14.88-N
DT250A/360A	438-22250-09-00	Cylinder Rod Assy.	14.88-N
MX250A/360A/SC500A	363-22250-79-00	Cylinder Rod Assy.	15.10-N
YZ250A/360A	431-22250-09-00	Cylinder Rod Assy.	16.14-N



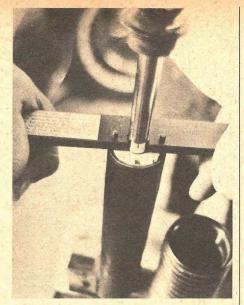
Compress spring and remove spring clip. Remove spring.





Remove caps. Carefully pump out shock fluid.

NOTE: Punch marks and spanner holes in piston rod nut. Clean out extruded metal between rod nut and cylinder housing. Remove nut.



NOTE: A spanner can be manufactured from a piece of 1/4" x 11/2" steel strap. Cut a notch to clear piston rod. Drill a hole on each side to align with rod nut holes. Press-fit dowel pins of suitable O.D. into holes in strap.

An alternate method is to drive nut off using a punch in the nut holes. This method may damage the cylinder housing. Use extreme care.

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With nut unscrewed, remove and discard piston rod assembly (Fig. 2).

CAUTION: Do not compress piston rod assembly. With no seal on piston, any remaining shock fluid will escape under pressure.

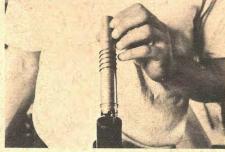
THERMAL FLOW SHOCK SPRING RATES

	SPRING RAIL				
1973 MODELS	kg/mm		lb/in		
MX250	1.703		95		
MX360	1.703		95		
SC500	1.703		95		
1974 MODELS	kg/mm		lb/in		
DT250A	K1 = 1.42.	K2 = 2.6	80/145		
DT360A	K1 = 1.42	K2 = 2.6	80/145		
MX100A	1.16		65		
MX125A	1.18		66		
MX175A	1.18		66		
MX250A	1.703		95		
MX360A	1.703		95		
SC500A	1.703		95		
YZ125A	1.18		66		
YZ250A	1.22		68		
YZ360A	1.22		68		
12300A	1.22		00		
1975 MODELS	kg/mm		lb/in		
DT175B	1.16		65		
DT250B	K1 = 1.42	K2 = 2.6	80/145		
DT400B	K1 = 1.42	K2 = 2.6	80/145		
MX100B	1.16		65		
MX125B	1.18		66		
MX175B	1.18		66		
YZ125B	1.18		66		
121230	1.10		00		

PART LIST

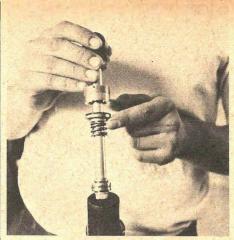
Part #	Part Name	Price	
550020	Cylinder	\$10.05	
550016	Spring-top/bottom	.85	
550021	End fitting	4.75	
550009	Shaft	12.05	
550008	Adjust. rod	2.25	
100532-006	0-ring	.20	
550025	Washer-top	.95	
550022	Cam	2.55	
550010	Ring retainer	.60	
550002	Nut-Bearing assem.	7.10	
550099	Seal	.60	
550011	Wiper	.60	
550012	Spring-top-bottom	.95	
100532-023	0-ring	.35	
550005	Piston	5.05	
550084	Teflon	1.25	
550006-13/35	Poppet	.60	
550007	Spring-poppet	.50	
550015	Guide	1.20	
550092	Washer cup	1.20	
	Extension springs	3.63	
	Mounting bushings	1.25	
	Load springs	7.25	
	Seal kit	7.50	
	Rebuild kits	10.50	
		with packing nuts	
1. Aluminum shock absorbers 59.90			

	ren paonin	.P
1. Aluminum shock absorbers	************	59.90
2. All "RP" standards		64.50
3. M4-M5; 13.5 & 14.0 specials	*****	69.50
Service charge rebuild	*******	17.85
Conversion to RP from standards	*****	29.50
Damping units less springs		45.38
The same of the sa	(2)	49.48
	(3)	54.98
Damping units less springs/grommets	(1)	40.34
	(2)	44.48
	(3)	49.94
the first and th		-



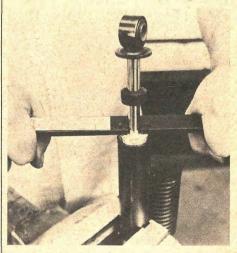
Remove and discard cylinder. Wash housing thoroughly in clean solvent.

CAUTION: During washing and reassembly, take extreme care to see that all parts are thoroughly cleaned. The smallest foreign particle within the assembly can impair damping action by blocking the damping jets.



Install replacement cylinder. Note location of coil spring around cylinder. This is an anti-foaming device and must be in place at the approximate center of cylinder.

Install replacement piston rod assembly. Check location of O-ring at base of rod nut. Piston seal is incorporated within rod nut.



Torque piston rod nut (new type has flats for wrench) to 80-100 in/lbs. Stake to prevent loosening (Fig. 1).



Add 175cc (6.0 oz.) shock fluid to reservoir. Install reservoir cap bolt. Torque to 175-200 in/lbs.

Rebuild kit part number is: M/C PNB No. 369.