

### APPLICATION NOTES

SUSPENSION

### FORK SPRING NOTES

- NOTE #**      **DESCRIPTION**
- 1 Stock spacer may be shortened to fit.
  - 2 Chain drive 920 and European model require a 1.50" spacer.
  - 3 Spacers are not included. They may easily be fabricated from aluminum or PVC pipe.
  - 4 Triumph Damper Rod Kit available. Order #31-5050.
  - 5 Spacer required is furnished with springs.
  - 6 LEFT HAND FORK: Remove and discard stock spacer and use 3.5" spacer supplied.  
RIGHT HAND FORK: Shorten stock spacer to 4.2".
  - 7 Install new spacer (1.75" PVC) below stock metal spacer to allow adjustable cap to function.
  - 8 Reuse the stock spacer.
  - 9 Remove and discard the stock spacer.
  - 10 No spacer is required.
  - 11 Some leading axles require spacer. *See note 3.*
  - 12 Obsolete
  - 13 Spacer length must be calculated according to the instructions included with the fork springs.
  - 14 Improved damper rod kit available. Order #31-5052.
  - 15 Improved damper rod kit available. Order #31-5051.
  - 16 Optional 43mm springs available depending on rider weight, riding style, etc:  
11-1143MX (Light)      19-23 lb progressive rate  
11-1143LT (Med)      18-26 lb progressive rate  
11-1143 (H/D)      20-30 lb progressive rate
  - 17 If a bike is not listed, refer to off road fork springs listed below. Generally our fork springs will fit the forks with the same millimeter, but there are exceptions. The inner diameter of the forks must be at least .5 mm larger than the diameter of the fork springs. Off road spring spec's as follows:

FORK DIAMETER	FORK SPRING	SPRING RATE	OUTSIDE DIAMETER
35mm	11-1135	18-28	27mm
36mm	11-1136	18-28	29mm
38mm	11-1138	18-28	31mm
40mm (Conventional forks)	11-1140	20-30	33mm
40mm (White Power Upside Down)	11-1140UD	18-28	33mm
41/42mm	11-1141	18-28	35mm
43mm	11-1143LT	18-26	36mm
43mm	11-1143MX	19-23	37mm
43mm	11-1143	20-30	36mm

- 18 Cut the included spacer to length indicated.
- 19 You must add a spacer (length indicated) to spacer furnished with springs or make a spacer that is the same length as the two combined.
- 20 This particular bike has two different fork legs. The left fork leg requires the stock fork spacer to be shortened to 3.25". The right fork leg requires the stock spacer to be removed and discarded. No spacer is needed in the right fork leg. ABS model, refer to note #13 for preload spacers.
- 21 LEFT HAND FORK: Cut spacer to 6.75" long (remove 1.0").  
RIGHT HAND FORK: Cut Spacer to 2.63" long (remove 1.0").

### SHOCK NOTES

- A 1 Travel limiters required: .25". Order #30-5013
- A 2 Travel limiters required: .50". Order #30-5014
- A 3 Travel limiters required: .75". Order #30-5015
- A 4 The shock recommended is slightly longer than stock. This may alter the head angle slightly and give somewhat quicker steering.
- A 5 The shock recommended is slightly shorter than stock. This may alter the head angle slightly and give somewhat slower steering.
- A 6 See Air Shock Improvement Kits A and B.
- A 7 Optional "Super Heavy Duty" spring is available, for the 12 Series, order #03-1364B/C. The air shock recommended is for a full dress touring motorcycle, use the "Sport Tuned" model for a standard motorcycle without touring equipment.
- A 8 Special shock: may be ordered direct from Progressive Suspension.
- A 9 Suzuki and Kawasaki equipped with air compressors require an adapter. Order #30-5086.
- A 10 Honda with air compressors require an adapter. Order #30-5082.
- A 11 K Models: 412-4015B is standard length 14.00" E/E. Also available in 3/4 inch shorter than standard, 412-4016B 13.25" E/E. 420-1001 is standard length 14.00" E/E. Also available in 3/4 inch shorter length than standard, 420-1025; 13.25" E/E.
- A 12 20 Series single shock for Honda GT650 Hawk sold w/out spring, reuse OEM stock spring.
- A 13 Check tire to fender clearance. If tire to fender clearance is insufficient, travel limiters are available. (See notes A1 to A3.)
- A 14 The stock length shock on a 93-95 FXD/FXDL/FXDWG is 12 5/8". Installing a 412-4037C, 412-4041C or 418-4837B/C on the FXDWG requires modification to the fender.
- A 15 Stock length on a FXDS-Conv./FXDX is 13.0". Shorter lengths will lower the motorcycle.
- A 16 Approximate stock shock length is 11.75".
- A 17 Use #5011-038 sleeve kit.
- A 18 Rear spring listed is a replacement for the stock OEM spring fitted to the stock OEM shock absorber only, not for use on 20 Series shock absorber.
- A 19 The spring listed will fit stock OEM shock absorber as well as the 420 Series shock absorber, but please note that part number listed for 420 Series includes spring installed.
- A 20 Requires shock body sleeve. Order #5033-001.



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## SHOCK NOTES CONT'D

NOTE #	DESCRIPTION
A21	415 Series shocks have been discontinued by Progressive Suspension. When stock is depleted from the manufacturer and distributor inventory, 415 shocks will no longer be available. However; the new 420 aluminum body shock is being built and inventoried to replace the 415. Check the 420 application box for the new 420 part number.
A22	Yamaha V-Star 650: 420-1034 (Standard Length) 420-1035 (Lowers Rear 1")
A23	Yamaha Road Star: 420-1039 (Standard Length) 420-1040 (Lowers Rear 1")
A24	Honda ST1100: 420-1028 (Standard Length) 420-1038 (Lowers Rear 1")
A25	Adjustable mount kit is available to fit stock rear shocks. '89 - '99, order: 30-5046C/G 2000, order: 30-5048C/G
A26	BMW 90-92 K100RS & 93-95 K1100RS/LT/RSA/LTA: 420-1019 (Standard Length) 420-1042 (Lowers Rear 1")
A27	Suzuki 1200 Bandit: 420-1043 (Heavy duty rear shock for heavy weight applications.)
A28	Requires sleeve kit, part #5011-048 to install shocks, available from Progressive Suspension. Stock shock length is 13.3". Shorter lengths lower the motorcycle.
A29	Kawasaki KLR 650: 420-1030 (Standard Length) 420-1044 (Lowers Rear 1")
A30	Victory V92C: 420-1046 (Standard Length) 420-1047 (Lowers Rear 1")
A31	Stock shock length is 12.25"
A32	Kawasaki VN 800 Vulcan: 420-1048 (Standard Length) 420-1049 (Lowers Rear 1")
A33	Stock shock length is 12.12"
A34	Progressive Suspension tool #32-5509 is recommended for rear spring installation.
A35	Yamaha V-Star 1100/Custom: 420-1051 (Standard Length) 420-1052 (Lowers Rear 1")
A36	Compressor kit # 30-5101 will not fit Deuce models.
A37	Stock Shock length is 12.75".
A38	Kawasaki ZG1000 420-1055 (Heavy duty rear shock for heavy weight applications.)
A39	Kawasaki VN1600 Vulcan Classic requires # 5011-054 spacer kit to install shocks (does not apply to 812 Series). Available from Progressive Suspension or 14mm I.D. flat washers could be substituted.
A40	FLHRS/FLHX stock shock length is 12.00"
A41	Stock shock length is 14.30" (418-1011B/C length is 13.50").
A42	Honda VTX1800 C & F Models require replacing top shock mounting studs to install Progressive Suspension shocks. Order two # 52452-MHCH-000 ("Rear Cushion Bolts") from your Honda Dealer.
A43	722-1002 uses 30-5101 Compressor Kit.
A44	GSF1200SA model (w/anti-lock) requires Suzuki part numbers 09103-10101 & 08319-31107 for shock installation.
A45	Shocks longer than 12.50" will cause Axle to come in contact with STOCK exhaust system.
A46	Adjustable mount kit p/n 30-5048C is available to fit non-adjustable length 413 Series & stock rear shocks - EXCEPT Harley p/n 54549-04 (with 6.5" can.)

## ATV NOTES

NOTE #	DESCRIPTION
ATV1	512 Series shocks, increase wheel travel and ground clearance approx. .5"
ATV2	512 Series shocks, increase wheel travel and ground clearance approx. .6"
ATV3	512 Series shocks, increase wheel travel and ground clearance approx. .8"
ATV4	512 Series shocks, increase wheel travel and ground clearance approx. .9"
ATV5	512 Series shocks, increase wheel travel and ground clearance approx. 1.0"
ATV6	512 Series shocks, increase wheel travel and ground clearance approx. 1.2"
ATV7	512 Series shocks, increase wheel travel and ground clearance approx. 1.4"
ATV8	512 Series shocks, increase wheel travel and ground clearance approx. 1.7"

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