

# 1985/86 Yamaha Maxim-X

## Fork Seal & Spring Replacement Service

### TORQUE & VOLUME SPECIFICATIONS & TIPS

Item	Num	Size	Torque	Torque
Brake Caliper Bolts - Left	2	12mm Hex	25 ft•lbs	300 in•lbs
Brake Caliper Bolts - Right	2	12mm Hex	25 ft•lbs	300 in•lbs
Fork Brace/Fender Bolts	4	10mm Hex	6.5 ft•lbs	78 in•lbs
Front Axle	1	17mm Hex	75 ft•lbs	-
Front Axle Pinch Bolt	1	12mm Hex	14 ft•lbs	168 in•lbs
Triple Tree Pinch Bolts - Upper	2	10mm Hex	14 ft•lbs	168 in•lbs
Triple Tree Pinch Bolts - Lower	4	6mm Allen	17 ft•lbs	204 in•lbs
Fork Valve Cap Bolts	2	19mm Hex	17 ft•lbs	204 in•lbs
Damper Rod (12 point)	1	22mm Hex	22 ft•lbs	264 in•lbs
Damper Rod Securing Bolt	1	8mm Allen	22 ft•lbs	264 in•lbs
Fork Drain Screws	2	#2 Phillips	Not Specified	Not Specified

Item	Type	Volume	Min.	Max.
Fork Oil Type	10Wt	-	-	-
Fork Oil Volume - Left	-	389 mL	-	-
Fork Oil Volume - Right	-	389 mL	-	-
Fork Air Pressure	-	-	0.0 psi	17.1 psi

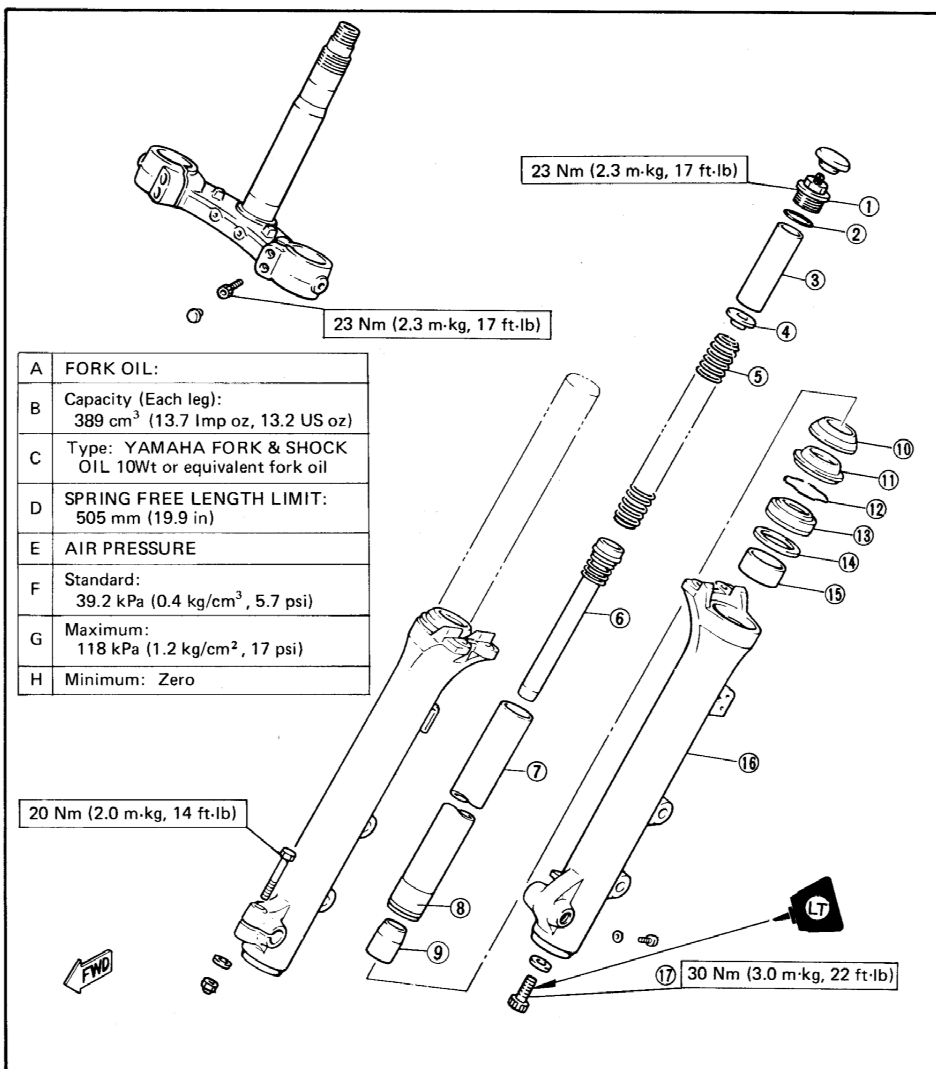
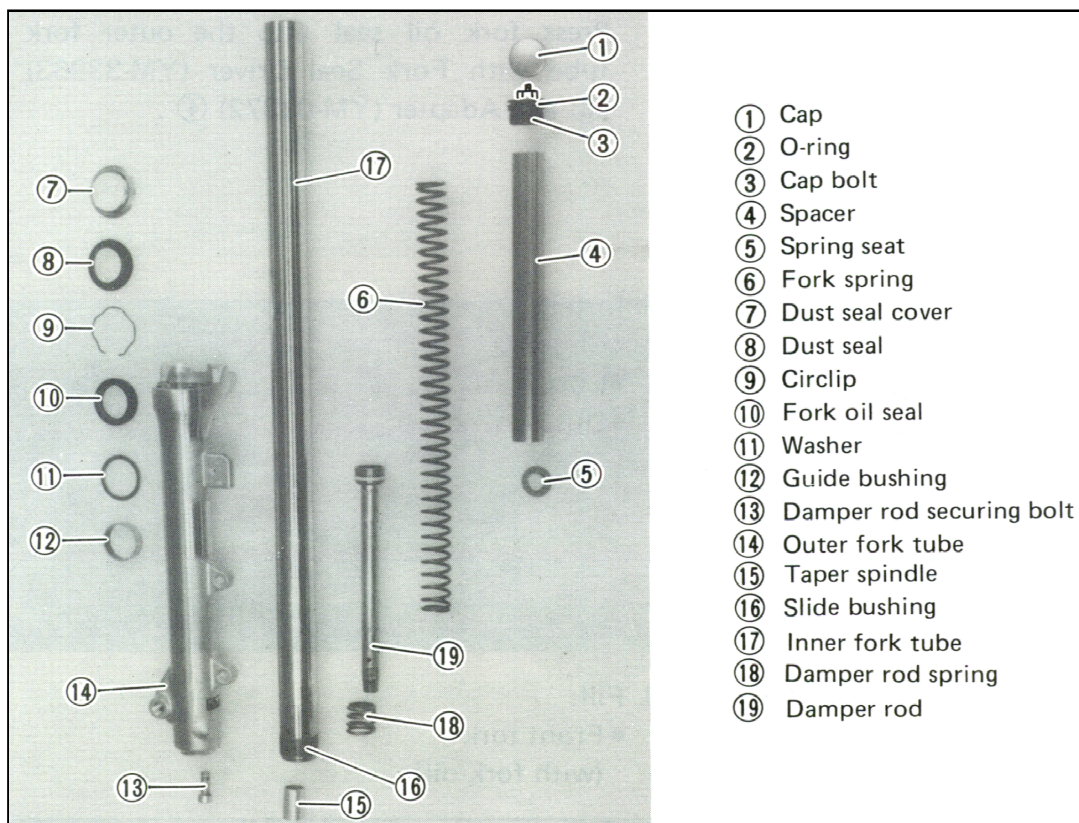
### Helpful Tips for Fork Seal & Spring Service

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|---|--|
| <p><b>1</b> Don't start without ordering all the necessary parts for two forks as listed below:</p> <ul style="list-style-type: none"> <li>• (2) oil seals</li> <li>• (2) oil seal circlips</li> <li>• (2) dust seals</li> <li>• (2) drain screw seals</li> <li>• (2) fork cap bolt o-rings</li> <li>• (2) progressive springs</li> <li>• (2) guide bushings</li> <li>• (2) damper rod securing bolt crush washers</li> <li>• (2) 500mL bottles of 10Wt fork oil (maybe 1L bottle)</li> <li>• (1) bottle of Loctite® Stud 'N' Bearing Mount - Red</li> <li>• (1) bottle of Loctite® Gel Super Glue</li> </ul> | <p><b>5</b> Let out fork air pressure BEFORE attempting to remove threaded fork cap bolts. Refer to #2.</p>  |
| <p><b>2</b> Put your gas tank somewhere safe where flying parts won't land on it and dent it. The fork cap bolts tend to do that.</p>   | <p><b>6</b> Loosen both fork cap bolts while the fork tubes are still securely clamped in the triple tree but don't <b>remove</b> the fork cap bolts from the fork tubes until the forks are off the bike.</p> |
| <p><b>3</b> Don't start without first fabricating a reversible 22mm / 19mm damper rod drive tool as shown at this link:<br/> <a href="http://www.maxim-x.com/pix/forks/sm-maxim-x_fork_tool1.jpg">www.maxim-x.com/pix/forks/sm-maxim-x_fork_tool1.jpg</a><br/>           If you have no luck constructing this special tool you can use an assortment of common tools as shown at this link:<br/> <a href="http://www.maxim-x.com/pix/forks/sm-maxim-x_fork_tool2.jpg">www.maxim-x.com/pix/forks/sm-maxim-x_fork_tool2.jpg</a></p>  | <p><b>7</b> Order new chrome Allen bolt covers before starting because they'll get damaged when removing them.</p>   |
| <p><b>4</b> Don't start without first locating or buying a narrow wall PVC tube of inside diameter <b>1.5 inches</b> and length <b>3 feet</b>.</p>  | <p><b>8</b> When re-assembling the forks, don't forget to coat the damper rod securing bolts with <b>Loctite® Stud 'N' Bearing Mount - Red</b>.</p>  |
|   | <p><b>9</b> Don't start unless you have torque wrenches handy which range from <b>6.5 ft•lbs</b> to <b>75 ft•lbs</b>.</p>  |
|   | <p><b>10</b> Use only a low-volume hand-operated bicycle pump to inflate the forks to <b>0.0 psi - 17.1 psi</b>. Using a compressor or other high-volume pump will blow the fork seals.</p>                    |
|   | <p><b>11</b> To fix fork tubes which are pitted surrounding the cap bolt o-rings, remove rust with rotary wire wheel, fill pits with <b>Loctite® Gel Super Glue</b>, then sand smooth.</p>                     |
|   | <p><b>12</b> When installing new progressive springs, the tightly wound part of the coil spring is installed at the top.</p>   |

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'85 XJ700XN  
'85 XJ700XNC  
'85 XJ750XN  
'86 XJ700XS  
'86 XJ700XSC  
'86 XJ750XS

## FORK PARTS



### FRONT FORK

- ① Cap bolt
- ② O-ring
- ③ Spacer
- ④ Spring seat
- ⑤ Fork spring
- ⑥ Damper rod
- ⑦ Inner fork tube
- ⑧ Slide bushing
- ⑨ Taper spindle
- ⑩ Dust seal cover
- ⑪ Dust seal
- ⑫ Circlip
- ⑬ Fork seal
- ⑭ Washer
- ⑮ Guide bushing
- ⑯ Outer fork tube
- ⑰ Damper rod securing bolt