

# MAGNUM

*Magnum R & Magnum*

## 2000 Owner's Manual

p/n: 062490

- Betriebsanleitung • Manual del usuario
- Manuel de l'utilisateur • Manuale del proprietario
- Handleiding • Manual do proprietário • **オーナーズマニュアル**



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## ANSWER PRECISION SUSPENSION

**CONGRATULATIONS FOR CHOOSING THE LATEST STATE-OF-THE-ART MOUNTAIN BIKE SUSPENSION FORK AVAILABLE. THE 2000 MAGNUM AND MAGNUM R FORKS USE THE LATEST ONE-PIECE OUTER LEG/ARCH TECHNOLOGY. BOTH FORKS HAVE STATE-OF-THE-ART MCU/SPRING COMPRESSION SYSTEMS. THE MAGNUM R IS EQUIPPED WITH ANSWER'S NEWTPC (TWIN PISTON CARTRIDGE) SPORT HYDRAULIC DAMPING SYSTEM.**

Your MAGNUM fork is fully assembled and ready to be installed onto your bicycle and comes equipped with a 1-1/8" threadless steer tube. MAGNUM and MAGNUM R are available with the V-brake cable hangerless arch, and have an optional attachable cable hanger which is available through your dealer.

## CONSUMER SAFETY INFORMATION

**IMPORTANT:** The MAGNUM fork is an off-road fork, and as such, does not come with proper reflectors for on-road use. Have your dealer or mechanic install proper reflectors to meet the Consumer Product Safety Commission's (C.P.S.C.) Requirements for Bicycles if the fork is going to be used on public roads at any time. If you have questions regarding C.P.S.C. Standards contact your dealer.

1. Never remove or have the steer tube or stanchions removed from the crown. The steer tube and stanchions (inner legs) are press fit assembled at the factory. Pressing them out will permanently damage the crown beyond repair and render it unsafe for any continued use.
2. Never attempt to thread a threadless steer tube. Machining threads will weaken the steer tube and cause an unsafe condition. The only safe thing to do is to obtain the proper crown/steerer from your dealer.
3. Any other alterations or modifications to your fork should be considered unsafe. Contact Answer Products Technical Support prior to modifying your fork in any way for safety information.
4. Do not use the MAGNUM or MAGNUM R forks if any parts are broken, bent, cracked, or damaged. Contact your dealer or Answer Products Technical Support, (661) 257-4411, if you have any questions concerning the integrity or condition of your fork.
5. Answer Products recommends that you periodically inspect your fork for wear and damage. Inspect the crown, inner legs, outer leg dropout and brake arch areas for cracks or damage. Before every ride check to ensure that the proper preload exists and that the positive rebound stop is in order to ensure that the fork can not overextend.

## WARRANTY INFORMATION

Any Answer Products fork found by the factory to be defective in materials and/or workmanship within one year from the date of purchase will be repaired or replaced at the option of the manufacturer, free of charge, when received at the factory, freight prepaid. This warranty does not cover breakage, bending, or damage that may result from crashes or falls. This warranty does not cover any fork that has been subject to misuse or whose serial number has been altered, defaced or removed. This warranty does not cover paint damage. Any modifications made by the user will render the warranty null and void. This warranty is expressly in lieu of all other warranties, and any implied are limited in duration to the same duration as the expressed warranty herein. Answer Products shall not be liable for any incidental or consequential damages.

If for any reason warranty work is necessary, return the fork to the place of purchase. In the USA, dealers should call Answer Products for a return authorization number (RA#). At that time instructions for repair, return, or replacement shall be given. Customers in countries other than USA should contact their dealer or local distributor.

## INSTALLATION INSTRUCTIONS

Insure that the proper steer tube has been delivered on your MAGNUM. The steer tube may need to be cut to length to fit your bicycle head tube. If you are not familiar with this procedure or do not have the proper tools to cut the steer tube it is recommended that you seek a dealer with a qualified bicycle mechanic to perform installation.

### ⚠ WARNING

**The steer tube and stanchions (inner legs) are a one-time precision press fit at the factory and cannot be removed from the crown. Replacement of the entire crown/steerer assembly must be done to change steer tube lengths or diameters. Removing and replacing the steer tube or stanchions will result in an unsafe condition and should never be done.**

1. Remove old fork from bicycle.
2. Measure and cut the steer tube to fit your bicycle headtube.
3. Remove crown race from old fork and press onto MAGNUM steerer until seated on crown (Figure 1).
4. Clean and grease headset bearings and races of bicycle.
5. Install lower bearings on fork crown race.
6. Insert steer tube into head tube of frame.
7. Install upper bearings, spacers, and stem.
8. Install stem cap and screw, tighten until slack just disappears.
9. Install handlebars to desired height. Torque stem handlebar pinch screws and stem clamping system to manufacturer's instructions.
10. Install cantilever brakes and adjust per manufacturer's instructions.

#### NOTE:

All 2000 MAGNUM forks are equipped with a secondary catchdropout.

11. Adjust front wheel quick release to clear the 0.275" (7mm) thick secondary catch dropout. The quick release must be tightened after it is properly seated into the dropout counter bores. Insure that there is adequate thread engagement (4 or more threads with the release adjusted to lock) due to the wider adjustment. Install front wheel to bicycle per manufacturer's specification.
12. Install brake cable per manufacturer's instructions.

#### NOTE:

The MAGNUM fork comes equipped with a hangerless arch. Brake cable hangers that attach to the arch are available through your dealer. See Figure 2.

### ⚠ WARNING

**When installing wheel or any new tire check the minimum tire clearance. Measure from the highest point on the tire to the bottom of the crown. The minimum clearance allowed is 3.1" (78.7 mm) for 76 mm travel forks. Any less clearance can result in serious injury or death. Figure 3.**

## MAINTENANCE

**IMPORTANT:** The MAGNUM should not be used if any parts appear to be or are damaged. Contact your local dealer or Answer Products for replacement parts.

**IMPORTANT:** Use of fork boots is required to keep your MAGNUM and MAGNUM R performing well and your warranty in effect. Use of this fork with the boots removed will shorten the life, reduce the performance and void the warranty.

MAGNUM and MAGNUM R forks require periodic maintenance, cleaning, and inspection. Moisture and contamination may build up inside the fork depending on the severity of riding conditions. To maintain top performance

it is recommended that the fork be periodically disassembled, cleaned, dried and re-greased using the Microlube grease ports located on the back of each outer leg. (Figure4).

**IMPORTANT:** When filling the fork with grease through the grease ports it is important to note the grease is being forced between the upper and lower bushings. If the area is overfilled the force of the grease may force the upper bushing and dust seal out.

**IMPORTANT:** Before every ride you should:

1. Ensure that quick release skewers are properly adjusted and tight.
2. Wipe the inner legs clean and check entire fork for any obvious damage.
3. Insure that the front brake cable is properly seated in the cable retainer and check brake adjustment.

**IMPORTANT:** Maintaining the proper oil level in your TPC is critical. Not enough oil will allow foaming and reduce the performance. Too much oil will restrict travel and may cause damage to the system and create an unsafe riding condition. Finish reading this entire section prior to making any changes to the oillevel.

To check the oil level remove only the compression assembly located in the top of the right leg. Leave the left side compression stack (adjuster, MCU, spring assembly) in place to keep the fork fully extended. Use a tape measure or "dip stick" to determine the oil level. Oil level should be between 3.2" and 5.2" (81.2 mm and 132 mm) below the top of the crown where the damping assembly screws in. The recommended starting oil level is 4.2" (106.6 mm). Use SAE5WT fork oil. (See Figure 5.)

## ADJUSTING RIDE QUALITIES

MAGNUM and MAGNUM R forks offer a wide adjustment range to suit individual riding preference and rider weight by simply changing the MicroCellular Elastomer (MCU's). Fine tune adjustments can be made using the preload adjusters located on top of the fork crown. Softer blue and harder yellow elastomers are available from yourdealer.

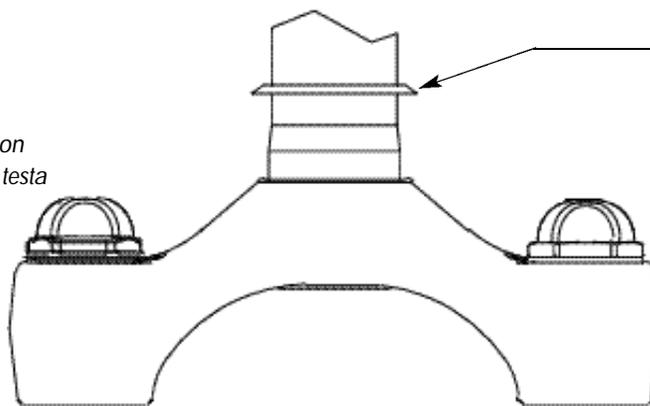
**NOTE:** *Since the 2000 MAGNUM R forks use a compression stack in the left leg only, MCU's and springs used in previous Manitou forks are NOT interchangeable with later versions of MAGNUM modelforks.*

### Compression Spring Fine Tuning: Figure 6

Fine tuning adjustments to the spring rate are made by rotating the adjuster knobs located on top of the crown. The 2000 MAGNUM and MAGNUM R use a compression spring system in the left leg only. The left knob is used to adjust preload. Rotating the knobs clockwise will firm the ride, adding preload to the compression stack. Rotating the knobs counter clockwise will soften the ride. Four full revolutions will take the adjuster from full soft to the extreme firm setting. ■

1

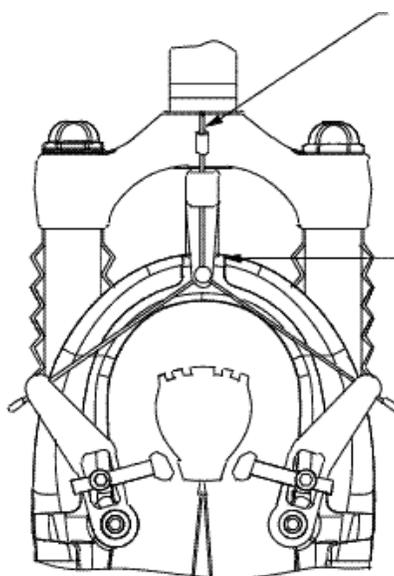
Race Installation  
 Einbau des Steuersatzrings  
 Instalación de la arandela  
 Installation du jeu de direction  
 Montaggio dell'anello della testa  
 Installatie van loopring  
 Instalação do canaleta  
 レースの取り付け



CROWN RACE  
 GABELBRÜCKEN-STEUERSATZRING  
 ARANDELA DE LA DIRECCIÓN  
 CONE DE JEU DE DIRECTION  
 ANELLO DELLA TESTA  
 KROONLOOPRING  
 ROA  
 クラウン・レース

2

Brake cable routing  
 Bremskabelführung  
 Trayectoria del cable del freno  
 Disposition du câble de frein  
 Montaggio del cavo del freno  
 Remkabelroutering  
 Percurso do cabo de freio  
 ブレーキ・ケーブルの配線

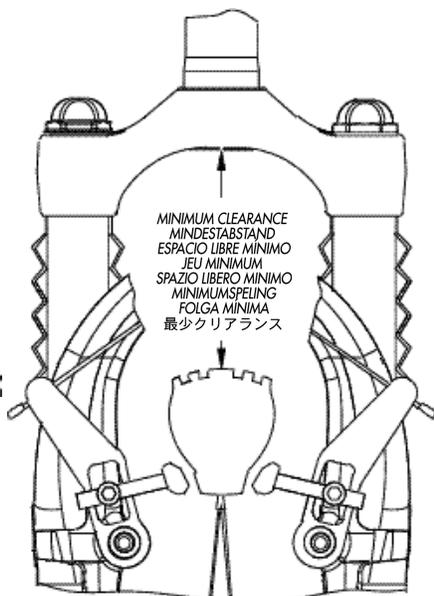


CABLE HANGER  
 KABELHALTER  
 TOPE DEL CABLE  
 CROCHET DE SUSPENSION DE CÂBLE  
 SOSTEGNO PER IL CAVO  
 KABELHANGER  
 SUPORTE DO CABO  
 ケーブル・ハンガー

BRAKE ARCH  
 BREMSBRÜCKE  
 ARCO DEL FRENO  
 ARCEAU  
 ARCHETTO DEL FRENO  
 REMBOOG  
 ARCO DO FREIO  
 ブレーキ・アーチ

3

Tire clearance  
 Reifenabstand  
 Espacio libre de la cubierta  
 Distance arceau/pneu  
 Spazio libero del pneumatico  
 Bandspeling  
 Folga do pneu  
 タイヤクリアランス

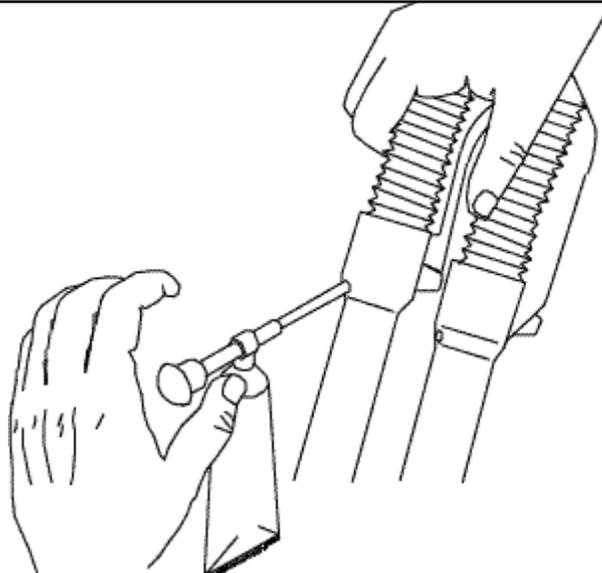


MINIMUM CLEARANCE  
 MINDESTABSTAND  
 ESPACIO LIBRE MÍNIMO  
 JEU MINIMUM  
 SPAZIO LIBERO MINIMO  
 MINIMUMSPELING  
 FOLGA MINIMA  
 最少クリアランス

FORK MODEL GABELMODELL MODELO DE HORQUILLA MODÈLE DE FOURCHE MODELLO DI FORCELLA VORKMODEL MODELO DO CABELO フォーク・モデル	MINIMUM CLEARANCE MINDESTABSTAND ESPACIO LIBRE MÍNIMO JEU MINIMUM SPAZIO LIBERO MINIMO MINIMUMSPELING FOLGA MINIMA 最少クリアランス
MAGNUM & MAGNUM R 76 mm travel forks	3.1" (78.7 mm)
MAGNUM und MAGNUM R Gabel mit 76 mm Auslenkung	78,7 mm
Horquillas MAGNUM y MAGNUM R con recorrido de 76 mm	78,7 mm
Fourches MAGNUM et MAGNUM R ayant une course de 76 mm	78,7 mm
Forcelle MAGNUM e MAGNUM R con corsa da 76 mm	78,7 mm
MAGNUM & MAGNUM R loop van 76 mm	78,7 mm
MAGNUM e MAGNUM R curso de 76 mm	78,7 mm
マグナムとマグナム R 76mm 行程	78.7 mm

**4**

Grease port  
 Schmieröffnung  
 Orificio de engrasado  
 Graisseur  
 Apertura per l'ingrassaggio  
 Smeergat  
 Orificio de lubrificação  
**グリース・ポート**

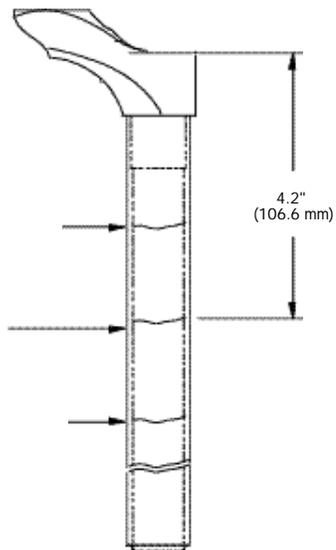


**5**

Oil level  
 Ölstand  
 Nivel del aceite  
 Niveau d'huile  
 Livello dell'olio  
 Olipeil  
 Nível do óleo  
**オイルの量**

**推奨オイルレベル**  
 RECOMMENDED LEVEL  
 EMPFOHLENER ÖLSTAND  
 NIVEL RECOMENDADO  
 NIVEAU RECOMMANDÉ  
 LIVELLO RACCOMANDATO  
 AANBEVOLEN PEIL

**最低オイルレベル**  
 MIN. 5.2" (132 mm)

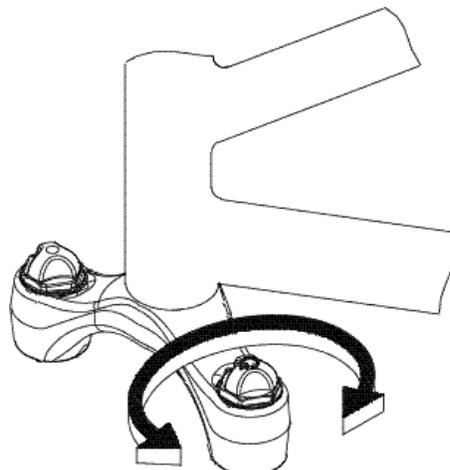


**6**

Fine tuning compression spring  
 Feinabstimmung der Druckfeder  
 Ajustes de precisión al resorte  
 de compresión  
 Réglages fins des ressorts  
 de compression  
 Messa a punto della molla  
 di compressione  
 Fijnafstelling van drukveer

te preciso

**圧縮スプリングの微調整**



ROTATE  
 DREHEN  
 GIRAR  
 TOURNER  
 RUOTARE  
 DRAAIEN  
 GIRAR  
**回す**

