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workshop 2007



LOUISE®





the passion people

Espanol



Our disc brake range - recommended use

arta SL 180 / 180						Marta SL 180 / :	180	
arta SL 160 / 160						Marta	SL	. 160 / 160
arta 180 / 180			1			Marta 180 / 180		
arta 160 / 160			- 2			Marta	16	0 / 160
ouise 203 / 203			_oui:	se 203 / 203				
ouise 180 / 180				Louise 180 / 18				
ouise 160 / 160					L	ouise 160 / 160		
lie						Julie 180 / 160		
	Ground contact isn't that important to you. There is (almost), no terrain where a Freerider won't go. Tough and stable components are a must have. Here they are.	There are bikers out there for whom uphill is just a means to an end. The downhill fun is having absolute priority for them. With lots of travel and robust components the Enduros must cope with technically hairy downhills ans bikpark weekends.		You're an all-rounder. You love long and sweeping trails, up as well as down. The optimum mix of light weight and stability is the hall mark of your All-Mountain components meant for a broad spectrum of use.		Mile after mile over the dusty trails as well as hard fast tarmac. On every ride your bike should be the epitome of uncomplicated—and naturally the parts for your Touring adventures shouldn't cost the earth.		Race-orientated means for us the minimum weight that is technically possible. Every gram extra weight can be the decisive factor between winning or losing for you the X-country maniac.

LOUISE®



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WARNING:

This symbol means possible danger for your health and even life if you do not follow the instructions given resp. if the necessary safety measures are not followed.



ATTENTION:

This symbol warns you of inappropriate handling that might cause heavy damage to the material and/ or the environment.



NOTE:

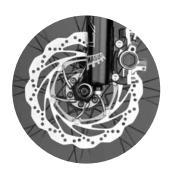
This symbol is giving you additional information about the general handling of the product or gives hints to paragraphs of this manual which have to be read carefully.

1. Welcome to the Passion People!



Brake lever (master cylinder) MAGURA Louise®

Congratulations! You have purchased a fully hydraulic MAGURA disc brake proudly "Made in Germany". You will be enthusiastic about the awesome braking power and the very little maintenance that is necessary on our stoppers. Good to know that you are not alone, millions of users worldwide rely on them and every day we're becoming more!!



Brake caliper and rotor MAGURA Louise®

On the fully hydraulic MAGURA disc brake system MAGURA Louise the braking force is transmitted to the braking surface by a mineral oil column. The movement of the lever blade moves a piston, which is integrated in the brake lever (master cylinder). The piston pushes the mineral oil column through the brake hose in the direction of the brake caliper, where two pistons, on which the brake pads are fixed, are pushed out. The friction between the brake pads and the rotor is slowing down the bicycle and causes a heating of both the rotor and the brake caliper.



Never touch either the rotor or the brake caliper after long braking as this may cause serious burns.

You will be pleased to find out that the MAGURA Louise disc brakes offer a superior braking power even with little hand force applied, no matter what the weather conditions should be. Particularly in wet weather conditions disc brakes are much more responsive than rim brakes and transmit their enormous power shortly after activating the brake lever.

Disc brakes do not cause a wear of your rims. In case of insufficient mounting conditions they might however cause a squealing noise during braking, mainly in wet weather conditions.



This manual contains important information about the safe installation, operation and maintenance of your MAGURA disc brake. We urge you to read it carefully, become familiar with its contents and follow our recommendations to help make your new braking experience enjoyable and trouble free.



Although the Louise disc brake system is relatively simple you should not overestimate your technical skills! We therefore advise you to leave the following works to a trained technician of a professional bike shop.

In case of any further questions or problems we warmly recommend to visit our website www.magura.com where you will always find the newest and hottest tips about all our products and free online help in the forum. You can also download there this manual in a convenient A4 format. Stay tuned with the Passion People!

Thank you for your confidence in our products, enjoy your ride and your new MAGURA disc stoppers!

Happy trails!

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Before the first ride

1. Are you already familiar with hydraulic disc brakes? Our brakes might be much more powerful than the stoppers on which you relied so far.

Take your bicycle to a safe area to learn the proper braking technique and operation of your new brakes and your bike.



2. Check whether you activate the front brake with the brake lever, which you are used to braking on the front. If ever this is not the case you will have to train your new setup because any unintended braking might cause an accident with possible serious injury! Make change the hose connection by a trained technician in case of any doubts.

Further hints concerning the swapping of the brake hose see page 11 onwards.



3. New brakes and new rotors or brake pads must always be run in by breaking at least 30 times from a speed of 30 km/h to achieve the maximum brake power. Take your bike to a safe place to run in the brake.



- 4. In case of extreme riding conditions (total weight of bike plus rider over 100 kg/220 lbs. and/or a gradient of more than 15 %) always use both brakes simultaneously to brake your bike down. Avoid constant braking on long descents as this might cause overheating and total failure of the system.
- 5. Use the brakes according to the user chart on page 2 of this manual. Any misuse might cause heavy accidents with fatal injuries for you and others!
- 6. Are you familiar with the other components on your bike such as shifting, clipless pedals and suspension units? Always train the perfect handling of your bike in a safe area before using it in the public traffic. Consult the user's manual of your bike to learn more about this.
- 7. For your own safety always wear a helmet when you ride a bicycle. Make sure as well that your clothing and footwear are suitable.

3. Before every ride

always check carefully the following points:

 Always make sure that the quick release skewers of your wheels and seat post are correctly mounted and closed.



Incorrectly installed quick release skewers might cause the fixed items to get loose. Serious falls with heavy bodily injury might be the result!!

2. Always make sure that the brake lever pressure is o.k. by pulling the lever blade and ensuring that full braking performance is achieved before the lever blade touches the handlebars. If this is not the case, pull the lever blade several times (pump) until the brake pads touch the rotor.

In case, of changing pressure points during a ride you might have air in the brake system. See hints about filling and bleeding from on pages 16/17.

- **3**. Always make sure that the brake system does not have any leaks by activating the lever blade, holding it and checking the hose connections and reservoir cover for eventual leaks. (Also see page 12)
- **4.** Always protect your rotors and brake pads from oil and lubricants (e.g. by lubricating your chain). Avoid detergents and soap on the brake pads. **Contaminating the pads with oil and lubricants will cause a permanent loss of braking power. Those pads are definitely killed and cannot be saved. They have to be replaced!** Clean a contaminated rotor with MAGURA brake cleaner, warm dishwater or alcohol. See further hints about the brake pad change on pages 13/14.
- **5**. Release your brake lever and check whether your wheel moves freely and without drag. Check eventually whether the wheels are correctly mounted and if the quick release skewers are sufficiently tightened. (Also see pages 8-10)
- **6.** Are your tires in a good condition, and are they sufficiently pressurized? Test this with your fingers. Lift up your bike and turn the wheels of your bike. An insufficient rotation might be due to damaged tires, broken axles and/or broken spokes.
- **7.** Pick up your bike and let it drop from a moderate height. Be careful in case of any rattling noise. Check the bearings and all screwed connections.
 - 8. Always follow the instructions given in the owner's manual of your bicycle.



Never use your bicycle if ever a proper function of the points mentioned above is not guaranteed. Consult a professional bike mechanic if you feel unsure. A faulty bicycle might cause serious accidents with possible serious injuries for the rider!

4. Transport of the bicycle

In case of a disc brake equipped bicycle you should always keep in mind the following points:



Never activate the lever blade without the brake pads in place and the wheels mounted. In case this should have happened see page 11 of this manual.

Never throw away the transport device, which has been delivered with the brake. Always clip it between the brake pads whenever the wheel is removed (e.g. transport of the bike).



Always carefully removed wheels. Make sure that the rotors are not damaged, deformed or contaminated with lubricants.

If the bike is transported upside-down squeeze before the lever blade, hold pressure and fix the lever blade in this position with a rubber band or a cable tie as shown on the right photo.

For a transport in an aircraft you can leave your brake as it is, e.g. you do not have to empty it.

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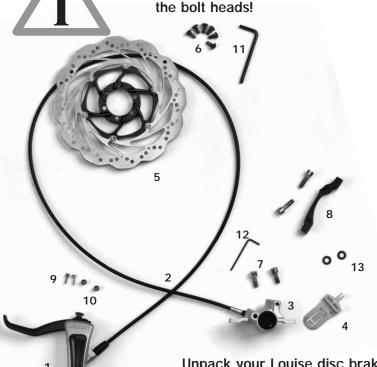
5. Brake installation

1. Tools for installation (+maintenance)

Allen key 2*, (2,5, 3) and 5 transport/mounting device* sharp knife 8 mm open end wrench flat blade screw driver Torx T25 key* (Torx T7 key)

(*delivered with the brake)

Always insert the allen and torx keys completely to avoid damaging the bolt heads!



Unpack your Louise disc brake:

- 1. brake lever (master cylinder) connected through the
- brake hose with the
- 3. brake caliper with transport device; **ATTENTION**:
- 4. remove the transport device only shortly before installation of the wheel!
- 5. rotor
- 6. fitting bolts for rotor Torx T25 (6 pieces)
- 7. fitting bolts for caliper Allen key 5 (2 pieces)
- 8. adaptor with fitting bolts (depending on model)
- 9. hose inserts (2 pieces)
- 10. olives (2 pieces)
- 11. Torx T25 key
- 12. 2mm Allen key
- 13. 1 mm spacers (2x) --> for rear caliper mounting

Specifications modifying and improving this product are subject to

change without prior notice. Specs may vary depending on model version! The brake levers, calipers and hoses of the different MAGURA disc brake models are completely different and not compatible! Never mix and match parts from the different models! Any misuse might cause serious accidents!



The brake levers, calipers and hoses of the different MAGURA disc brake models are completely different and not compatible! Never mix and match parts from the different models! Any misuse might cause serious accidents!

MAGURA manufacturers these braking systems according to the valid standards and based on profound product tests. Because of the large variety of forks and frames available on the market it is impossible for MAGURA to test all possible combinations. If you mount any of our brake systems always make sure that the brakes are in conformity with the bicycle.



Disc brake calipers can generate a lot of heat during extreme riding conditions. The resulting heat transfer from the caliper to the fork and/or frame can have a negative influence on the mechanical characteristics of both the fork and/or the frame.



Insufficient heat transfer from the brake caliper to the frame and the fork, caused by fork and or frame components having low heat transfer characteristics (e.g. carbon rear triangles) can cause the brake to overheat, with the possibility of a total failure of the brake system. This can cause serious personal injury to yourself and/or others.



With respect to product liability we remind all our users that any manufacturer (also: bike mechanic or end consumer!) is responsible for the correct function of the complete bicycle in this context. Improper combinations and insufficient installation might cause damage and serious accidents!



Mount the brake lever to the handlebar with a 5 mm allen key. Tightening torque 4 Nm/ 34 in.lbs

Hint: Tighten the brake lever so that it can still rotate around the handlebar in case of a crash. This old motocross trick will reduce considerably the risk of a damaged brake lever and the costly consequences.



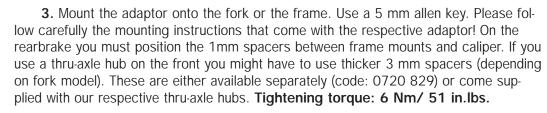
The MAGURA disc brake Louise is compatible with frames and forks which meet the International Standard (IS) and for Postmount (PM) as well. Depending on the mounting standard and/or rotor size adaptors are used for a proper installation (cf. page 21). Never mount the brakes with adapters or brackets from other manufacturers! All warranty will be void in case of any misuse! Use only direct mounting parts from MAGURA or the frame or fork's manufacturer!



Make sure that the caliper fitting eyelets on your frame or fork are free of any paint, powder coating or burrs. (arrows). If this is not the case you should contact your dealer who is able to care for the absolutely necessary even surface with the help of the MAGURA Gnann-o-mat disc optimizer tool (also see page 10).

ATTENTION: The facing of suspension fork lower legs made of magnesium might be dangerous because of corrosion! Always follow the safety instructions given by the respective manufacturer! Always make sure after having treated the disc brake mounts that these are protected against corrosion by using an appropriate protective paint.







4. Caliper installation: Mount the caliper with MOUNTED wheel and rotoronto the adaptor. For a better understanding the mounted wheel is not shown on this picture. Do not tighten the caliper bolts yet! Squeeze the lever blade and keep the pressure. Tighten now the bolts. **Tightening torque: 6 Nm/ 51 in.lbs.**



5. Mount the rotor with the 6 Torx T25 bolts onto the hub. Use only new original bolts or thread lock if you use the old ones again. Tighten the bolts in a cross pattern. Tightening torque: 4 Nm/ 34 in.lbs.
Install a MAGURA rotor in Centerlock version according to the tech sheet that comes with the rotor.



6. The transport device prevents the brake pads from being pushed out too far by unintended lever squeeze when the wheel is removed. It is impossible then to install the wheel with the rotor. So never throw away the transport device but keep it and always clip it between the brake pads as shown when the wheel is removed. Install the wheel by positioning the rotor between the brake pads and fixing the wheel in the dropouts. Close the quick release of your wheel **which you should mount on the opposite side of the brake caliper** and tighten it sufficiently.



7. Squeeze the lever blade several times (pump) to push the pads to their proper position until the lever feel becomes very firm. Tighten now the caliper fitting bolts.
Tightening torque: 6 Nm/ 51 in.lbs.



8. For Postmount 6" installation in combination with a 160mm rotor or Postmount 8" in combination with a 203mm rotor on the front you do not need an adaptor. Mount the caliper DIRECTLY onto the fork with MOUNTED wheel and rotor. For a better understanding the mounted wheel is not shown on this picture. Do not tighten the caliper bolts yet! Squeeze the lever blade and keep the pressure. Tighten now the bolts. **Tightening torque: 6 Nm/ 51 in.lbs.**



11. Correctly mounted disc brake wheel.



Do not worry when you hear friction between rotor and pads. A slight drag is normal on disc brakes with automatic pad wear adjustment during the breakin period. This drag will disappear after a while. The reason for this is that the brake pads find their optimum working position towards the rotor, only after a slight wear during the break-in period. Slight drag might also happen after a brake pad change or in case of an incorrectly installed wheel.



In case of a **constantly dragging** disc brake causing noise your frame is badly aligned. In such a case you should contact your dealer who can care with the MAGURA Gnann-o-mat disc optimizer for a totally even surface of the disc brake mounts. These are absolutely necessary for a drag free function of your brake.



New brakes and/or new rotors or brake pads must always be run in by breaking at least 30 times from a speed of 30 km/h to achieve the maximum brake power. Take your bike to a safe place to run in the brake.



Reach adjust is done with a 2,5 mm Allen key. Turning key clockwise: lever blade moves away from the handlebar, turning counterclockwise: blade moves to the handlebar.



WARNING: The reach adjust screw becomes very firm when you risk to overtighten it. Do not continue to screw it in/ out in such a case. Misuse can lead to brake failure! The adjust screw must not be flush wih the drill in the lever blade. Re-install the dust cover once you have adjusted the reach adjust properly. In case of a creaking lever grease the master piston with from aside with a lubricant like MAGURA Ultraslide oil.



Bite Adjust Technology (BAT):

Turning clockwise: Bite point becomes firmer Bite point becomes softer.



WARNING: Do not adjust the reach adjust in the closest position to the handlebar in combination with a BAT adjuster that is screwed in to the maximum as well. This could result in an unsufficient lever movement and brake power.

6. Shorten the hose



Louise is a high-pressure system and comes with a reinforced hose, the "MAGURA Disc Tube" wearing also this imprint. The Disc Tube needs an additional insert for a proper fitting. Never mix and match the parts from the different MAGURA disc brake models! Any misuse might cause serious accidents!



Never touch either the rotor or the brake caliper after long braking as this may cause serious burns.



1. Remove the wheel so that you have free access to the brake caliper. Push both pistons with brake pads mounted back by putting the transport device or a flat blade screwdriver into the gap. Move the screwdriver slowly back and forth until both caliper pistons are fully retracted and flush with caliper body.



Never push back the pistons without the brake pads mounted! Open the brake system only after having pushed back fully the brake pads.



2. Loosen the brake lever clamping screw with a 5 mm allen key. Turn the brake lever and ensure that the reservoir is horizontal.



3. Slide the hose protection. Unscrew the sleeve nut on the brake lever with an 8mm open-end wrench and pull the hose out carefully. Hold the hose carefully to avoid any loss of oil! Do not squeeze the lever blade with the system open!



4. Put the hose on a workbench and shorten it with a sharp knife. The best tool is the MAGURA hose cutter (code 0321 233). Do not use saws or pliers!



Hold the hose carefully so that it cannot snap away! Cut the hose squarely! The sleeve nut can be re-used. The olive and the insert cannot be reused and must be replaced!



5 Press manually a **new** insert into the hose until it is **fully seated**. Clamp the hose into the groove of the mounting device as shown...



6. ...or clamp the mounting device as shown into a vice and hammer the insert **carefully** into the hose. If your frame is not equipped for routing hydraulic lines you should now mount the hose fitting kit for your rear brake according to the instructions that are included in the kit.



7. Slide on the sleeve nut and a **new** olive onto the hose. Push the hose with the sleeve nut and the new olive **fully** into the brake lever and tighten the sleeve nut with an 8 mm open-end wrench. **Tightening torque: 4 Nm/34 in.lbs.**



8. Always check for correct installation by pulling on the hose. Make sure that the system has no leaks. Squeeze the lever blade, hold pressure and check hose connections and the reservoir cover for eventual leaks.

Squeeze the lever blade several times (pump) to push the pads to their proper position until the lever feel becomes very firm. If you cannot realize this, bleed the brake (see page 16 onwards).

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7. Maintenance

Brake Oil: MAGURA disc brakes use a transmission medium low viscosity mineral oil, the MAGURA ROYAL BLOOD. Contrary to DOT brake liquid the MAGURA ROYAL BLOOD does not irritate human skin or strip the paint of your frame. Moreover it does not absorb water like DOT and does not have to be changed regularly. What sounds unbelievable is a fact: you can use your brakes over years without having to touch them (except brake pad check and change!) Use exclusively MAGURA ROYAL BLOOD, any other oil will damage the seals of your brake what will result in total failure of the brake!



Always make sure that the brake system does not have any leaks by activating the lever blade, holding it and checking the hose connections and reservoir cover for eventual leaks. Consult a trained technician in case of leaks that cause poor braking performance with possible serious accidents!

As to hints about repairs of the hose see page 16 onwards.



Brake pads: wear, control and replacement

Brake pad wear: The brake pads are subject to wear due to friction between rotor and pads. Both the Louise and the Louise FR disc brake feature a fully automatic pad wear adjustment. **Regularly check the thickness of your brake pads and replace them, if necessary! CHANGE ALWAYS BOTH PADS SIMULTANEOUSLY!**



Control of the brake pad wear

Never touch either the rotor or the brake caliper after long braking as this may cause serious burns.



Squeeze the lever blade with the wheel mounted an hold the pressure.



Check out whether the "finger" of the transport device fits in-between the "ears" of the brake pads. On the picture on the left this is NOT the case, the pads must be changed!



Here the "finger" of the transport device fits between the "ears" of the brake pads. The pads are still o.k. Remember: The lever has to be pulled during this procedure. Use for this a rubber band or a cable tie.



Replacement of the brake pads

1. Remove the wheel so that you have free access to the brake caliper. Push both brake pads fully back by putting the transport device or a flat blade screwdriver into the gap. Move the screwdriver **slowly** back and forth until both caliper pistons are fully retracted and flush with the caliper body.

Never push back the pistons without the brake pads mounted as the pistons could be damaged otherwise.



2. Remove the brake pad fitting screw with a 2mm allen key.



3. Pull out the brake pads. Their "ears" make this very easy. Clean the pads with a dry rag that is free of oil and grease.

Minimum thickness of a brake pad plus holder is 2,5 mm.



Never squeeze the lever blade without the brake pads in place and the wheel mounted! If this happened by accident push back the pistons by using the transport device or a flat blade screwdriver.



Use only genuine MAGURA brake pads! MAGURA cannot guarantee a correct function of the brake if you use brake pads from other manufacturers, which were not tested! Using other pads (e.g. sinterized ones!) might cause poor braking, overheating of the system and resulting total brake failure causing serious accidents! All warranty claims will be void in case of misuse!

4. Clean on the occasion of the brake pad change, the brake body with a clean rag. **Make sure that the friction side of the new brake pads points towards the rotor**.



- 5. Secure the new pads with the fitting screw, a new one is delivered, with the new pads. Tightening torque: 1 Nm/ 9 in.lbs. Check the correct fitting of the pads by pulling them.
- **6.** Check, whether the pistons are fully pushed back and whether the pads are flush with the caliper body. Push the brake pads back with the transport device or a flat blade screwdriver as described on page 11. Re-install the wheel and check for a correctly tightened quick release skewer of the wheel **which should be mounted on the opposite side of the caliper.**
- **7.** Squeeze the lever blade several times (pump) to push the pads to their proper position until the lever feel becomes very firm.



New brakes and/or new rotors or brake pads must always be run in by braking at least 30 times from a speed of 30 km/h to achieve the maximum brake power. Take your bike to a safe place to run in the brake.

Never contaminate brake pads with oil or grease this causing permanent loss of brake power! Contaminated pads are definitely killed and must be replaced!

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8. Repairs



Disc brake service kit (code: 0721 294)

Don't panic if the hose snaps! With the disc brake service kit and a separately available spare hose (see spare parts pages 20/21), this can be repaired easily.



Louise is a high-pressure systems and comes with a reinforced hose, the "MAGURA Disc Tube" wearing also this imprint. The Disc Tube needs an additional insert for a proper fitting. Never mix and match either the hoses or other parts from the two models. Any misuse might cause serious accidents!

1. Remove the damaged hose from both the brake lever and the caliper.



2. Prepare a new hose: Use only the reinforced MAGURA Disc Tube (wearing also this imprint). One end of this hose comes with a pressed fitting, which has to be screwed into the caliper as described above.

The hose is available with 0° and 90° fittings (c.f. page 20)

Tightening torque: 6 Nm/51 in.lbs.



NEVER shorten the MAGURA Disc Tube hose at the end with the pressed fitting! You could no longer use this hose then.



3. Tighten the prepared end of the new hose onto the caliper. Tightening torque: 6 Nm/ 51 in.lbs.



4. Install the hose as described in chapter 6.

After the installation of a new hose you will always have to refill the brake. The following chapter 9 describes how the filling and bleeding has to be done.

9. Bremse befüllen und entlüften





Brake Oil: MAGURA disc brakes use as transmission medium low viscosity mineral oil, the biodegradable MAGURA ROYAL BLOOD. Contrary to DOT brake liquid the MAGURA ROYAL BLOOD does not irritate human skin or strip the paint of your frame. Moreover it does not absorb water like DOT and does not have to be changed regularly. What sounds unbelievable is a fact: you can use your brakes over years without having to touch them (except brake pad check and change!) Use exclusively MAGURA ROYAL BLOOD, any other oil will damage the seals of your brake what will result in total failure of the brake!



1. Loosen slightly the clamping screw of the brake lever with a 5mm allen key and turn the brake lever so that the reservoir is positioned **horizontal**. Slightly tighten the clamp screw in that position.



2. For filling and bleeding a MAGURA disc brake you will need the disc brake service kit (Code: 0721 294) including all necessary tools.



3. Prepare the transparent filler tube by pushing in by hand the M6 barbed fitting. Put the other end of the filler tube on the syringe and fill the syringe **completely** with MAGURA ROYAL BLOOD mineral oil. Fill the syringe completely and make sure that **there are no air bubbles inside.** Turn the syringe eventually to push out air bubbles.



4. Remove the brake pads as described on page 14 and slide the transport device as shown **with its THICK END** between the caliper pistons. Squeeze slightly the lever blade (pump) to tighten the transport device. It is advisable to fix the device with a rubber band on the caliper.



5. Fix the caliper so that the hose fitting points upwards!. It might be necessary that you have to unscrew the lower adaptor fitting bolt and to fix the adaptor/caliper unit to ensure such a vertical hose position. Unscrew now the bleeding screw with a 3 mm allen key. Screw in the prepared syringe and tighten it with a 8 mm open end spanner.



Place now a rag, which has to be free of oil or lubricants around the reservoir and, more important, around the brake caliper. Care for a clean working environment! No dirt or particles may come into the brake system!



6. Unscrew the Torx T7 reservoir cover screw and remove the cover with the membrane sitting below.



7. Press the MAGURA ROYAL BLOOD oil slowly through the system. Use a second syringe to suck any overflowing oil at the reservoir. Then pull the filler syringe to suck oil back. Repeat procedure 3-4 times and actuate CAREFULLY the lever blade simultaneously. **Make sure that there is always enough oil in the reservoir when you suck the oil with the filling syringe!**



8. Actuate in addition **CAREFULLY** the lever blade to chase tiny air bubbles that might hide within the circuit.



9. Use the second syringe to suck any overflowing oil. A rag around the brake lever and the caliper prevents overflowing oil from dropping down and contaminating and killing the brake pads. Push **the complete content** of the filling syringe through the system.



10. The reservoir has to be full to the top before replacing the membrane and the cover.Replace the cover with the membrane WIDE SIDE FIRST onto the reservoir. Oil will spill during this procedure, therefore do not forget to place a rag around the brake lever!



11. Tighten the cover screw until the cover is flush with the reservoir. Use only the original Torx T7 bolts! Any other bolts will lead to leaks, damages and failure of the whole system! Tightening torque 0,6 Nm/ 5 in.lbs



12. Remove the syringe and screw in the 3mm allen bleeding screw. Tightening torque: 2,5 Nm/ 22 in.lbs. Re-position the brake caliper (tightening torque 6 Nm/ 51 in. lbs.). Re-install the brake pads and the wheel.



Always pull the lever blade several times (pump) until the brake pads touch the rotor. Always check for correct installation by activating the lever blade and checking for eventual leaks. Never contaminate brake pads with oil or grease this causing permanent loss of brake power! Contaminated pads are definitely killed and MUST be replaced! A contaminated rotor can be cleaned with MAGURA brake cleaner, warm dishwater or alcohol.

10. The disc brake wheel

The XC disc brake wheel

There already exists enough literature concerning wheels, so just a few tips how a well-built X-country disc brake wheel has to be.



Use spokes with a diameter of 2 mm (arc)/ 1,8 mm which you cross three times. No radial lacing with disc brake wheels!

Head-inside-spokes (=arc-outside-spokes have to be pulled, i.e. these spokes point forward on the front wheel; on the back wheel these spokes point forward on the rotor side and backwards on the drive side. All spokes have to be stressed equally and high. Mount the q/r skewer of the wheel on the opposite side of the caliper!



Never use ultra lightweight quick releases with titanium or aluminum axles for your wheel sets in combination with a disc brake. You will not be in a position to realize the necessary tightening torque!

11. Accessories



MAGURA disc brake service kit, code: 0721 294

contains everything that you need for bleeding and repairing a brake.

ATTENTION: the kit does NOT include a spare hose!



MAGURA braided hose for all MAGURA disc brakes easily shortened with a cable cutter

Order codes see on page 20.

Watch out for the genuine hose with yellow MAGURA marker!!



Use only genuine MAGURA brake pads!

brake pads Performance Type 6.1 code 0722 418 series pad for maximum brake power. brake pads Endurance Type 6.2 code 0722 419 with optimized longevity.



Use only genuine MAGURA accessories! Any parts manufactured by other manufacturers like lever blades, hoses or brake pads have not been tested and approved by MAGURA and consequently nothing can be said about their short and long-term function. Never use those parts! All warranty and product liability claims will be void in case of misuse!

Never change the paint, the finish or the consistence of your brake. This might cause total failure of the whole system with possible serious consequences!

12. Trouble shooting

Problem	Ursache	Beseitigung
not enough brake power	brake not run in	break in brake (page 5)
no pressure point	oil/lubricants on rotor and/or pads	clean rotor with MAGURA brake cleaner, warm dish water or alcool. Replace contaminated pads!
	air in the system	Bleed brake (page 16)
	leaking system	Correct transport (page 6) Check hose connections and hose for leaks. Replace hose if necessary (page 16)
Squealing brake	badly aligned frame	align brake caliper correctly (page 9)
	paint/powder coating on disc mounts	remove any paint or powder coating and care for an even contact surface without burrs (page 8/9)
	wheel q/r skewer insuffi- ciently tightened Insufficiently tightened wheel spokes	increase tightening; mount q/r skewer on opposite
	•	•
Contaminated brake pads Contaminated rotor	carelessness	change brake pads clean rotor with MAGURA brake cleaner, warm dish water or alcohol
Wheel cannot be mounted	Lever blade was pulled with removed wheel	push back the brake pads with transport device or a flat screwdriver (page 11)
Rattling noise and rough deceleration	brake pads worn, holder of pads is wearing and dama- ging the rotor	brake pad change (page 13)
Leaking hose or brake	accident, incorrect installation	change hose or defective brake lever/caliper (page 15)

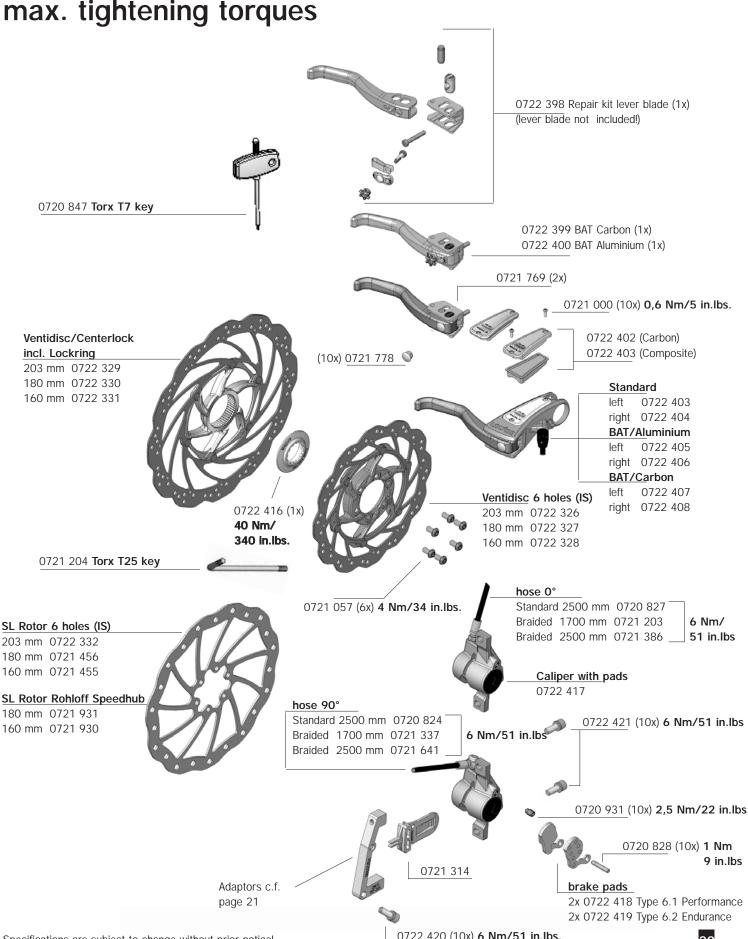
13. Warranty



MAGURA is giving a **5-year leak proof warranty** on brake levers (master cylinder) and brake calipers.

Watch out for the red info sheet in the middle of this manual!

14. Spare parts 2007/ max. tightening torques



LOUISE



Adaptors/mounting alternatives

for Louise 2007



Adaptor	Rotor diameter/Installation	Order code
Adaptor 5	203/Int. Standard 6" Front	0722 321
Adaptor 6	180/Postmount 6" Front	0722 322
Adaptor 7	203/Postmount 6" Front	0722 323
Adaptor 8	203/Rockshox Boxxer	0722 324
Adaptor 9	203/Int. Standard Rear	0722 325
Adaptor 10	180/Int. Standard Rear	0722 424
Adaptor 11	160/Int. Standard 6" Front	0722 425
	203/Int. Standard 8" Front (Fox 40)	
Adaptor 12	180/Int. Standard 6" Front	0722 426
	160/Int. Standard 6 Rear	
Direct Mount	203/Postmount 8" (Wotan, Travis)	(4)
(no adaptor!)	160/Postmount 6"	



WARNING!

Always make sure, that the fixing bolts are screwed in to a depth of at least 8 mm. This corresponds to around 8 full turns! Should this not be the case, longer bolts, with a minimum hardness of 8.8 should be used and secured using blue Loctite.



Specifications are subejct to change without prior notice! Visit our website magura.com for further information, tech tips and free online help!!

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