

STRUTS[®]

S U S P E N S I O N

STRUTS-S / STRUTS-GS / RACE STRUTS

SERVICE INSTRUCTIONS

To maintain performance and safety, read and follow these instructions carefully.

TANGE

Creating a New Tradition

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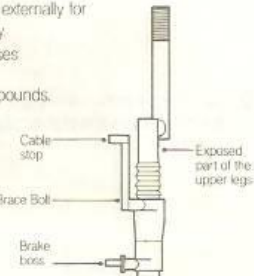
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Maintenance Information

Tange's Struts Suspension front fork is designed to be virtually maintenance free.

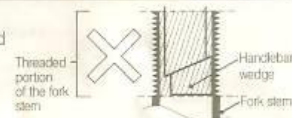
- Wiping the exposed part of the upper legs clean before and after each ride will assist the seals in keeping contamination from entering the lower leg assemblies.
- If additional lubrication becomes necessary, the fork should be disassembled, thoroughly cleaned, and standard bicycle grease applied to the bushing surfaces.
- Visually inspect the fork internally and externally for damage or excessive wear periodically.
- Check cable stop bolt and brake bosses periodically, if necessary use locktite.
- Tighten brace bolts to 105—110 inch pounds.
- Fork may need to be cleaned and re-lubricated after riding in wet or muddy conditions, and when fork is not working with smooth action.
- Use of a fork boot increases the time between service periods. (Optional in STRUTS-GS)



Installation

Because proper fitting and brake adjustment is necessary for safe operation Tange recommends that the Struts Suspension front fork be installed by a professional bicycle dealer or qualified mechanic.

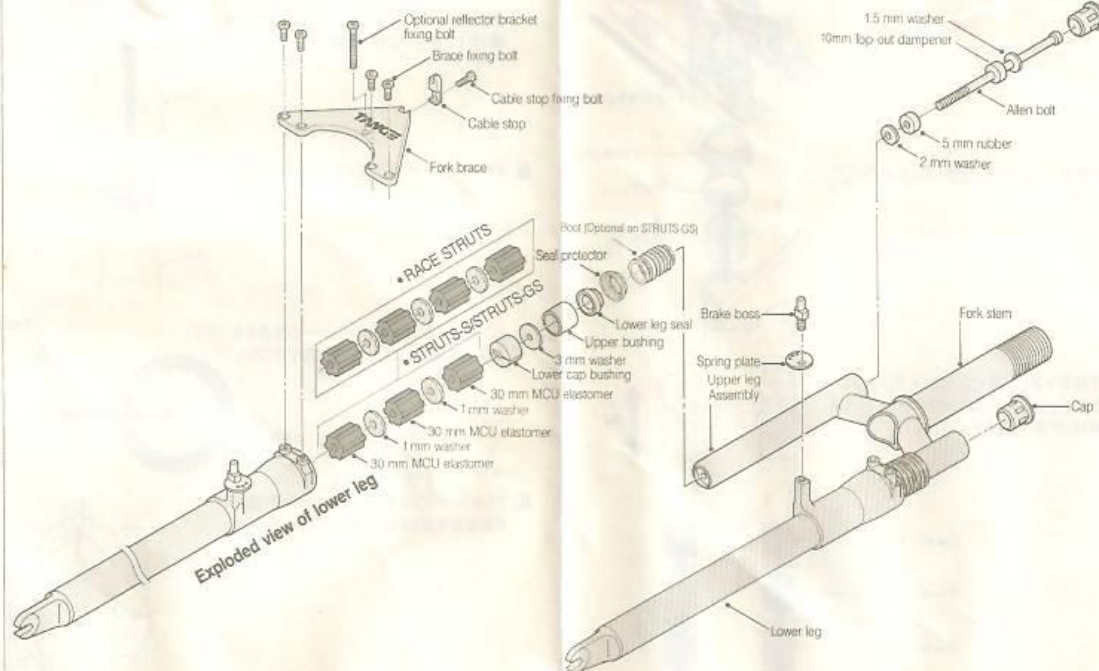
Do not tighten the handlebar wedge nut against the threaded portion of the fork stem.



Special Safety Notes

1. The handlebar stem expander wedge must be inserted to below the threaded portion of the fork stem.
2. The Struts Suspension fork may be fitted with a proper reflector for road use.

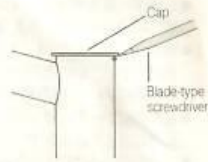
Exploded View



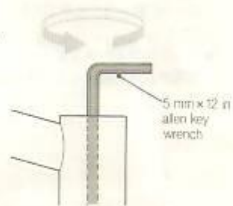
Changing the Elastomers

Disassembly

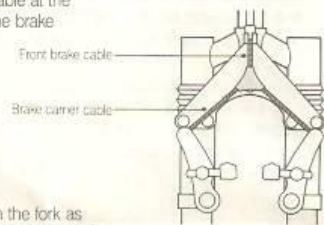
Carefully remove the caps from the top of the upper legs with a blade-type screwdriver.



Remove the lower leg fixing bolt assemblies with a 5 mm x 12 in. allen key wrench.



Release the brake carrier cable and disconnect the front brake cable at the lever as recommended by the brake manufacturer.

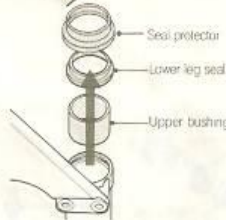


Remove the front wheel from the fork as recommended by the hub or quick release manufacturer.

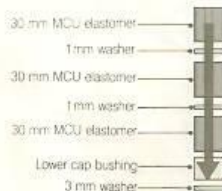
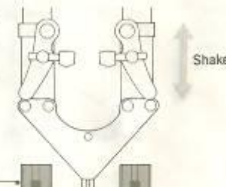
Remove the lower leg assembly with brakes and fork brace attached by pulling down sharply and evenly.



Remove the lower leg seals and upper bushings by hand.

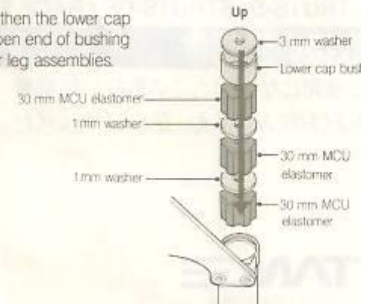


Turn the lower leg assembly upside down and shake. The lower cap bushings and elastomers will fall out.

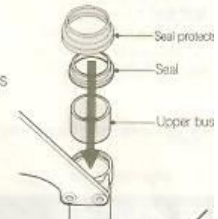


Re-Assembly

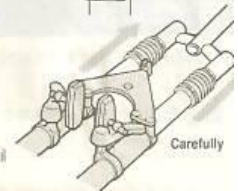
1. Insert the elastomers then the lower cap bushings (With the open end of bushing cap up) into the lower leg assemblies.



2. Reinstall the upper bushings then the wiper seals. Check to make sure the seals are completely seated. The Upper and Lower bushings should be lubricated with standard bicycle grease.



3. Carefully align and slide the lower leg assembly onto the upper legs to avoid damage to the seals.



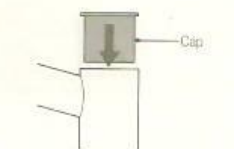
4. Push up on the lower leg assembly until the upper legs bottom against the bushings and elastomers.

5. Install the lower leg fixing bolt assemblies with a 5 mm x 12 in. allen key wrench.

Tighten to a maximum torque of 110 ~ 130 inch pounds. Do not over tighten.



6. Press upper leg caps firmly into place.



7. Reinstall the front wheel as recommended by the hub or quick release manufacturer.



8. Reinstall the brake cables as recommended by the brake manufacturer.

