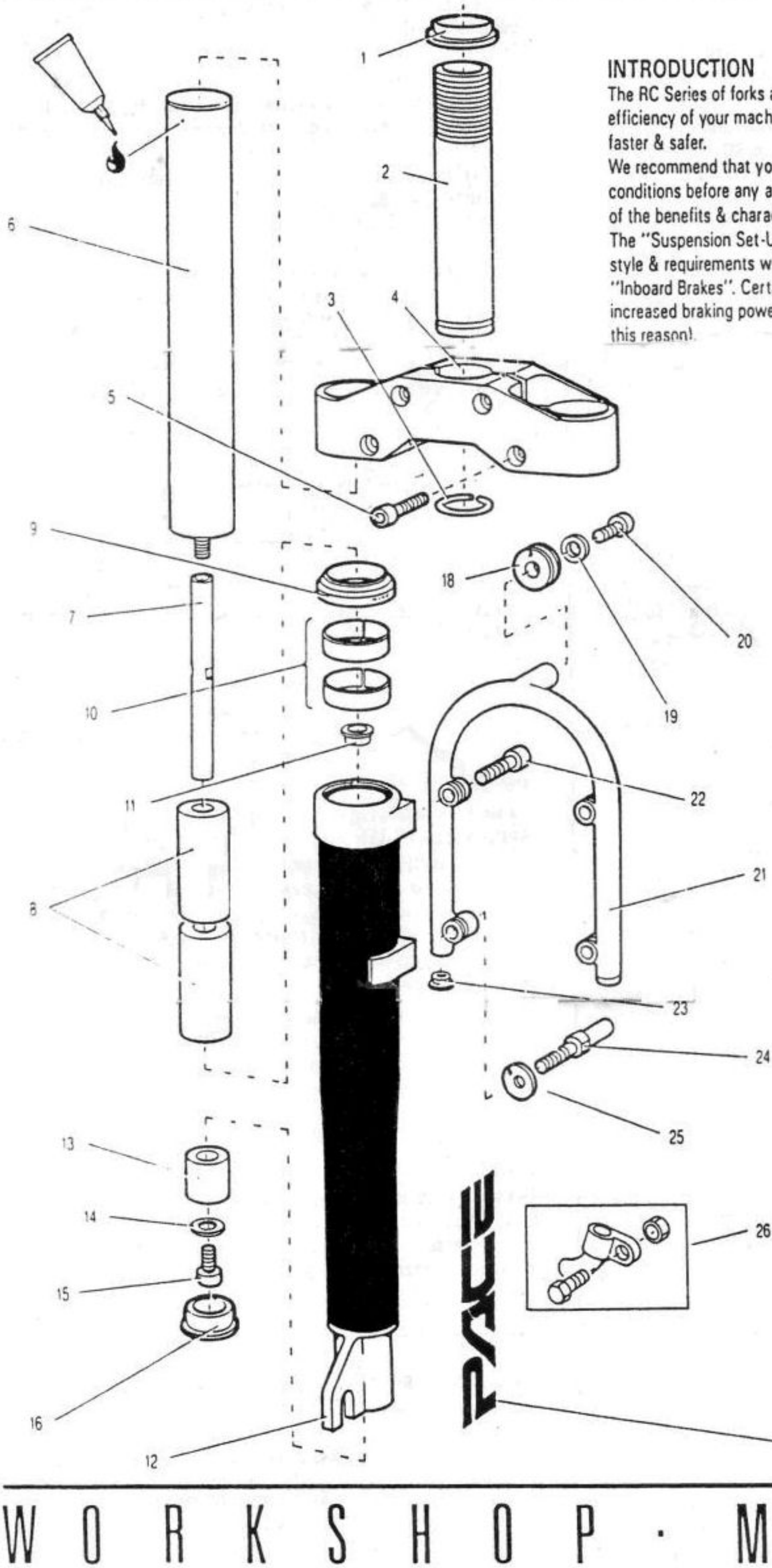
PACE® RC-35 SUSPENSION FORK

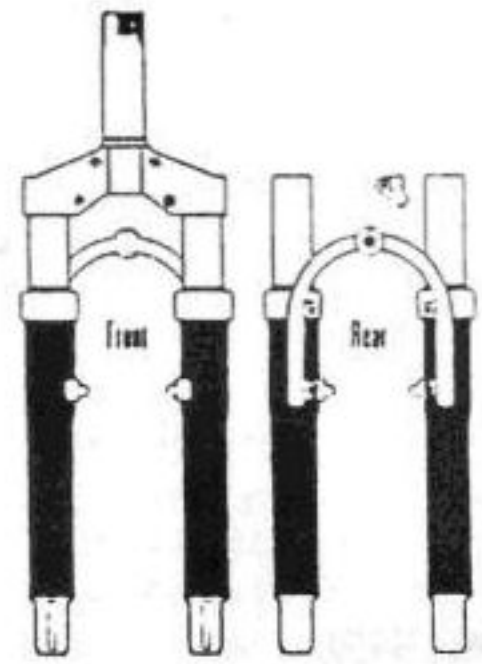


INTRODUCTION

The RC Series of forks are designed to improve the tracking & steering efficiency of your machine, whilst allowing the rider to cross rough terrain faster & safer.

We recommend that you ride the fork under various racing/riding conditions before any adjustments are made, so that a full understanding of the benefits & character of running suspension are appreciated.

The "Suspension Set-Up" section is for guidance only as your own riding style & requirements will yield a certain fork action. Take care with RC "Inboard Brakes". Certain cantilever brakes will produce considerably increased braking power (Self-Energising brakes are not recommended for this reason).



1 CROWN RACE COLLAR
2 STEERER
3 CIRCLIP
4 FORK CROWN
5 SCREW (4x)
6 STANCHION (2x)
7 CORE ROD (2x)
8 SUSPENSION CORES (4x)
9 WIPER SEAL (2x)
10 BEARING (4x)
11 CORE ROD GUIDE (2x)
12 SLIDER LEG (2x)
13 TOP-OUT CORE (2x)
14 WASHER (2x)
15 ROD SCREW (2x)
16 INSPECTION PORT PLUGS (2x)
17 DECAL (2x)
18 PIVOT WHEEL
19 WASHER
20 SCREW
21 SLIDER BRIDGE CANTILEVER/MAGURA
22 BRIDGE SCREWS (2x)
23 BRIDGE PLUG (2x)
24 CANTILEVER BOSS
25 CANTILEVER SPRING PLATE
26 CABLE JUNCTION ASSY

WORKSHOP MANUAL

ASSEMBLY TO MACHINE

We recommend that your Pace Status 1 Dealer carries out fitment. For self-assembly make sure that all necessary tools & cabling are at hand. IMPORTANT: Note position of parts during machine disassembly as RC-35 assembles to machine in reverse order.

- Remove front brake-cable cantilevers, stem (complete), computer line & front wheel, then headset lock-nut & top headset bearing from fork.
- Draw RC-35 steerer through crown until circlip/tab at base of steerer sits flush against crown base. (If 1" or 1⅛" gap in circlip must be orientated toward back of crown. For 1¼" orientate tab toward either blade).
- Draw out fork from machine. Remove lower headset bearing from steerer, clean steerer base, apply Loctite to base of RC-35 steerer 2. Press & Loctite crown race collar 1 into lower headset bearing, slide assembly onto steerer & finally clean all headset parts.
- Assemble RC-35 into machine and refit all components in reverse order (note: for increased strength the RC-35 steerer is not slotted – file away tab on lock-nut washer as necessary).

RC-35 KIT ASSEMBLY

- Remove brakes, computer receiver and cable, then wheel from machine. Loosen 4x RC-30 fork crown screws and draw out blades.
- Make sure mating surfaces for RC-35 stanchions and fork crown are perfectly clean then degrease with Acetone or Trico-ethylene (available from drug-store).
- Apply a bead of Loctite® (supplied) to upper chrome face of stanchions, then slide full suspension assy up into crown until flush with top of stanchion bore in fork crown.
- Leave to cure (approx 15-30 mins.) tighten 4x fork crown screws

BRAKE FITTING & BRAKE ADJUSTMENT (see Fig. B)

- To fit cantilevers, simply turn front cantilevers around & fit to slider bridge 21, fit & adjust as you would on rear seat stays of machine. Note: If tyre & tube are removed from wheel before fitting, this will assist perfect brake adjustment & alignment to rim.

RC-35 1992 UPGRADE

Your RC-35 includes significant modifications not covered by the service manual.

1. Cantilever Boss Mounting : now clamps on for improved torsional stiffness.
2. Wheel (pt18) & Cable Junction Assy (pt26) : have been replaced by our unique Brake Rocker Clamp. Brake setup remains the same, except cantilever straddle wire clamps into rocker, whilst outer cable stops at rocker, & inner wire continues to RH cantilever. At rest, rocker arms should be level.

- Cut a length of cable outer so as to follow the smoothest & shortest route from lever to a point mid-way between end of RH Side cantilever & pivot wheel 18.
- Feed inner-cable through outer, fit to brake lever (adjuster barrel few turns out) & insert through cable junction 26. Loosely thread inner-wire through RH side cantilever & pull through so as to position cable junction as in fig B (Note: hold shoe against rim during adjustments).
- Insert straddle wire through pivot wheel (Note: for security hole in pivot wheel can be wired), fit straddle wire nipple into LH side cantilever (Note: hold both cantilevers against rim during this operation) & clamp inner wire into cable junction.

Fine Adjustment

- Adjust spring tension in cantilevers so that when brake is operated at lever both cantilevers move against rim simultaneously.
- Draw/release inner cables so that shoes rest approx 2mm from face of rim & take up final cable slack at brake lever.

ROUTINE MAINTENANCE

Regularly wipe clean all surfaces & check condition of all seals, plugs & cable mounts etc IMPORTANT NOTE: DO NOT APPLY LUBRICANTS OR SOLVENTS TO FORK. Use only SILICON LUBE to service. Inspect condition of wiper seals 9 and replace if damaged.

After prolonged use (especially in muddy & wet conditions), fork action will be improved by cleaning internal operating surfaces. We recommend this is carried out by your Pace Dealer.

Disassembly

- Disconnect front-brake cable from lever, remove wheel.
- Stand machine upside down, remove 2 x inspection port plugs 16 remove 2 x screws 15 & draw off full slider assy (Note: make sure that 2 x top-out cores 13 & 4 x suspension cores 8 are removed).
- Carefully wipe clean all surfaces & component parts including internal slider surfaces (take care not to disturb position). Inspect for wear/damage & check 2 x rods 7 are tight. Lightly apply silicon lube to moving parts & bearing surfaces.
- Slide 4 x suspension cores onto rods. Note: make sure that left & right legs carry equal number & grade of suspension cores.
- Carefully replace slider assy, guiding tips of rods & suspension cores through wiper seals & bearings so as not to damage or disturb these parts.
- Work slider legs down so that rods penetrate guide holes in slider tube base. Insert top-out cores, washer 14 & screws into slider base & tighten down to 5 N.m/45 lbf.in DO NOT OVERTIGHTEN. (Note: To make this easy, lightly push down slider assy with your foot on slider bridge until rod is flush with top of top-out cores then slide down screw with washer & tighten down).
- Insert inspection port plugs, replace brake cable & wheel.

SUSPENSION SET UP

As a general guide, the fork is performing correctly when it is responding to all obstacles from small to large, yet does not "bottom-out" (a point when fork reaches maximum travel). A fork which is set-up so as not to work except at speed or when downhilling, is not working to its full potential. There are proven benefits in terms of control & energy saving to be had (even when climbing) when fork is set-up softer than you may think is correct. A pack of four suspension cores (2 x hard + 2 x soft) is available from your Pace Dealer.

1 x black, 1 x natural suspension core (per leg).

As standard the RC-35 is fitted with 1 x black core (hard) & 1 x natural colour core (soft) per leg. This set-up is referred to as medium.

A medium set-up will yield approx 40mm of travel. The "spring rate" of this combination will best support a rider of average weight (10 to 11 stones – 63 to 69kg) or under, & will settle approx 5mm when machine is rolling. An aggresive and/or heavier rider may require a harder set-up.

2 x black suspension cores

This set-up is referred to as hard. Hard set-up will yield approx 35mm of travel. Spring rate will support a heavier rider (11 stones – 69kg) & over & will settle little when machine is rolling. A hard set-up suits an aggresive rider & works most efficiently at high speed through rough terrain. Fork will be 'locked out' whilst climbing. A lighter weight rider (or recreational rider) may find fork action too harsh.

2 x natural suspension cores per leg

This set-up is referred to as soft. Soft set-up will yield approx 48mm of travel. Spring rate will support a lightweight rider (10 stones -63kg) & under & may settle up to 8mm when machine is rolling. A soft set-up allows the fork to perform fully over even small obstacles & provides a sensitive & progressive action.

IMPORTANT NOTE

Pace HS Carbon Fork Tubes are constructed from high quality, hand laid-up Carbon Fibre. To maintain the integrity of the tube & prolong service life, do not apply any chemicals, solvents or lubricants internally or externally. Use only silicon lube to lubricate, & warm water to clean.

Tighten 4x fork crown screws
(105 lbf ins/11.5 N.m)