DECREE
TECHNICAL
MANUAL
Congratulations on purchasing a Felt Decree. As with all of our bikes and components, our aim is to provide the rider with the best product and riding experience. Read this manual supplement thoroughly, as it’s to help you set your bike up correctly, and care for it.

For further information, visit: FELTBICYCLES.COM

INTRODUCTION

FAST EXPLAINED 2-3
GEOMETRY 4

SETUP

SHOCK SETUP 5
FRONT DERAILLEUR MOUNT 6
REMOVABLE ISCG '05 TAB 6
HEADTUBE CABLE GUIDES 7
FLIP CHIPS 8

CARBON ROUTING

BOTTOM BRACKET CABLE GUIDES 9
REAR BRAKE CABLE/HOSE ROUTING 10-11
REAR SHIFTER CABLE/HOSE ROUTING 12-13
DROPPER POST CABLE/HOSE ROUTING 14-15
TOP MOUNT FRONT DERAILLEUR CABLE ROUTING 16-17
SIDE SWING FRONT DERAILLEUR CABLE ROUTING 18-19

ALLOY ROUTING

REAR BRAKE CABLE/HOSE ROUTING 20-21
REAR SHIFTER CABLE/HOSE ROUTING 22-23
DROPPER POST CABLE/HOSE ROUTING 24-25
TOP MOUNT FRONT DERAILLEUR CABLE ROUTING 26-27
SIDE SWING FRONT DERAILLEUR CABLE ROUTING 28-29

MAINTENANCE

EVALUATION 30
PIVOT LOCATION / TORQUE VALUES 31
MAIN PIVOT 32-33
SEAT TUBE PIVOT 34-35
SEAT STAY PIVOT 36-37

REPLACEMENT PARTS

BEARING / HARDWARE KIT 38
TOOL KIT 39
MASTER PARTS LIST 40

CONTACT INFORMATION

CONTACT 41
FAST, or Felt Active Stay Technology, is a linkage-driven, single pivot system with flexible carbon stays. By replacing the pivot near the dropout with flexible carbon stays a lighter, stiffer, and overall snappier frame can be made.

**Efficient Pedaling:** In order to provide efficient pedaling, FAST relies on both ideal anti-squat values as well as the flexible carbon stays. As the suspension moves away from the sag point in either direction, a force is created from either compressing or extending the stays. This force acts on the shock and helps return it back to sag. This provides a stable, responsive platform for pedaling.

**Large Impacts:** Support for large impacts is provided in two ways: decreasing leverage ratio and carbon flex. The leverage ratio is decreasing which makes it progressively harder to compress the suspension as it moves through the travel. The carbon stays add to this by contributing an additional spring force as they are extended through the travel.

**Small-Bump Sensitivity:** With the pedaling performance and large impact support handled by the linkage design and flexible carbon stays, the shock can be run with minimal compression damping. This frees the shock up to remain active and absorb the smallest of bumps.
**SHOCK SETUP**

It is very important to have the correct amount of sag so that the suspension can be in the part of its travel that is most efficient and compliant. Felt recommends starting at 30% and adding/subtracting up to 5-10% to fine tune to your personal preference.

**To measure sag, follow these 4 steps:**

1. Push the o-ring to the top of the shock shaft.
2. Sit on the bike with the seat at full ride height to compress the shock. Bounce a few times, then push the o-ring back to the top of the shaft.
3. Gently get off the bike, taking care not to change the position of the o-ring. On some shock models, the sag gradients will be printed on the shaft. In this case, simply read your sag percentage as it is printed on the shock shaft. If there are no sag gradients, measure the distance of the o-ring from the top of the shaft. To achieve 30% sag, the o-ring should be 17mm from the top of the shaft. If there is too much sag (>30%) add air pressure, if there is not enough sag (<30%), reduce air pressure.
4. Repeat process until desired sag is achieved.

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**GEOMETRY**

*Geometry chart reflects low/slack flip chip position*
» FRONT DERAILEUR MOUNT
CARBON FRONT TRIANGLE SPECIFIC

The front derailleur mount is removable and can be replaced with a blanking plate in the event a front derailleur is not used.

» HEAD TUBE CABLE GUIDES
CARBON FRONT TRIANGLE SPECIFIC

The head tube cable guides contain rubber reducers for all cable sizes that are interchangeable and can be arranged to fit each rider's setup and personal preferences.

» REMOVABLE ISCG '05 TAB
ALUMINUM FRONT TRIANGLE SPECIFIC

This ISCG '05 tab is removable for riders who prefer to run setups that do not require a chain guide.
**FLIP CHIPS**

The geometry can be adjusted by rotating eccentric chips located in the seat stay pivot. By changing the orientation of these chips, the bottom bracket height will be raised or lowered by 10mm and the head angle will be slackened or steepened by 1 degree.

**BOTTOM BRACKET CABLE GUIDES**

**CARBON FRONT TRIANGLE SPECIFIC**

The bottom bracket cable guide can be adapted to different configurations with rubber reducers for different sizes of cables. It can also be used as a battery holder.
» ROUTING REAR BRAKE
CARBON FRONT TRIANGLE SPECIFIC

» ROUTING REAR BRAKE CONT.
CARBON FRONT TRIANGLE SPECIFIC
Routing Top Mount Front Derailleur

Carbon Front Triangle Specific

Routing Top Mount Front Derailleur Cont.

Carbon Front Triangle Specific
» ROUTING SIDE SWING FRONT DERAILLEUR
CARBON FRONT TRIANGLE SPECIFIC

INTERNAL ROUTING

1

2

» ROUTING SIDE SWING FRONT DERAILLEUR
CARBON FRONT TRIANGLE SPECIFIC

1

2
ROUTING REAR BRAKE
ALUMINUM FRONT TRIANGLE SPECIFIC

INTERNAL ROUTING

ROUTING REAR BRAKE CONT.
ALUMINUM FRONT TRIANGLE SPECIFIC
«ROUTING REAR SHIFTER

ALUMINUM FRONT TRIANGLE SPECIFIC

«ROUTING REAR SHIFTER CONT.

ALUMINUM FRONT TRIANGLE SPECIFIC
ROUTING DROPPER POST
ALUMINUM FRONT TRIANGLE SPECIFIC

ROUTING DROPPER POST CONT.
ALUMINUM FRONT TRIANGLE SPECIFIC
ROUTING TOP MOUNT FRONT DERAILLEUR
ALUMINUM FRONT TRIANGLE SPECIFIC

INTERNAL ROUTING

1

ROUTING TOP MOUNT FRONT DERAILLEUR CONT.
ALUMINUM FRONT TRIANGLE SPECIFIC

2

1

2
» ROUTING  SIDE SWING FRONT DERAILLEUR
ALUMINUM FRONT TRIANGLE SPECIFIC

» ROUTING  SIDE SWING FRONT DERAILLEUR
ALUMINUM FRONT TRIANGLE SPECIFIC
In order to achieve optimum suspension performance, Felt recommends performing a simple pivot checking procedure after every 100 hours of riding or annually, whichever comes first. If any issues are discovered, please refer to the bearing removal/installation section or take your bike to the nearest Felt dealer.

**Pivot Checking Procedure**

1. Check torque on all pivot bolts. If bolts are loose, remove, clean and apply Loctite 242, then tighten to correct torque (see technical section for torque values).

2. With the shock installed, apply pressure vertically and horizontally to feel for any play in the pivots. If play is discovered, please refer to the technical section for more information and instructions for bearing removal/installation.

3. With the shock removed, move the suspension through its travel. There should be little to no resistance. If there is any resistance, please refer to the technical section for more information and instructions for bearing removal/installation.

**Evaluation**

**Move Rear Triangle through travel.**

**Pivot Location**

<table>
<thead>
<tr>
<th>Pivot Location</th>
<th>Torque Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat Stay Pivot</td>
<td>12N·m</td>
</tr>
<tr>
<td>Seat Tube Pivot</td>
<td>12N·m</td>
</tr>
<tr>
<td>Main Pivot</td>
<td>12N·m</td>
</tr>
<tr>
<td>Shock Mounts</td>
<td>10N·m</td>
</tr>
</tbody>
</table>
### MAIN PIVOT

**EXPLODED**

```
<table>
<thead>
<tr>
<th>item no.</th>
<th>description</th>
<th>qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Collet Bolt - 60mm</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Collet Cone</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Main Pivot Spacer (25mm Long)</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>15mm Spacer</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>3802 15x24x7 Bearing</td>
<td>2</td>
</tr>
<tr>
<td>18</td>
<td>O-Ring - 18 x 1.5mm</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>O-Ring - 20 x 1.5mm</td>
<td>1</td>
</tr>
</tbody>
</table>
```

**INSTALLATION**

**REMOVAL**

**LOCTITE 242**

12 N·m
### SEAT TUBE PIVOT

**EXPLODED**

- **LOCTITE 242**
- **12 N·m**

<table>
<thead>
<tr>
<th>item no.</th>
<th>description</th>
<th>qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Decree Shock Link - Right</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Decree Shock Link - Left</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Seat Tube Pivot Bolt</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Seat Tube Pivot Spacer - Left</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Seat Tube Pivot Spacer - Right</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>6802 15x24x5 Bearing</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>6901 12x24x6 Bearing</td>
<td>1</td>
</tr>
</tbody>
</table>

### SEAT TUBE PIVOT CONT.

**INSTALLATION**

- **BRTK-011**
- **BRTK-014**
- **BRTK-007**
- **BRTK-003**
- **BRTK-004**
- **BRTK-005**

**REMOVAL**

- **LEFT**
- **RIGHT**
### SEAT STAY PIVOT

**EXPLODED**

![Exploded view of Seat Stay Pivot components]

<table>
<thead>
<tr>
<th>item no.</th>
<th>description</th>
<th>qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Seat Stay Yoke Screw</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Flip Chip - Inside</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Flip Chip - Outside</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>6801 12x21x5 Bearing</td>
<td>2</td>
</tr>
<tr>
<td>18</td>
<td>O-Ring - 18 x 1.5mm</td>
<td>2</td>
</tr>
</tbody>
</table>

**INSTALLATION**

![Installation view of Seat Stay Pivot components]

**REMOVAL**

![Removal view of Seat Stay Pivot components]
**Felt offers a bearing rebuild kit as well as a complete hardware rebuild kit. There is also a tool kit for proper removal and installation of the bearings. The contents of each are displayed below. Individual parts may also be ordered. Contact your local dealer for more information.**

<table>
<thead>
<tr>
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<th>description</th>
<th>qty.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Decree Shock Link - Right</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Decree Shock Link - Left</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Seat Stay Yoke Screw</td>
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</tr>
<tr>
<td>4</td>
<td>Flip Chip - Inside</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Flip Chip - Outside</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Seat Tube Pivot Bolt</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Seat Tube Pivot Spacer - Left</td>
<td>1</td>
</tr>
<tr>
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<tr>
<td>12</td>
<td>15mm Spacer</td>
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</tr>
<tr>
<td>13</td>
<td>M8x1.25, 40mm Long</td>
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</tr>
<tr>
<td>14</td>
<td>3802 15x24x7 Bearing</td>
<td>2</td>
</tr>
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<td>6901 12x24x6 Bearing</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>O-Ring - 18x1.5mm</td>
<td>3</td>
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