



MATTOC PRO, EXPERT, & COMP



JUNIT 34 PRO & EXPERT



CIRCUS 34 PRO

MATTOC / JUNIT 34 / CIRCUS 34 SERVICE GUIDE



MANITOU

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WARRANTY

For full warranty information please
visit hayesbicycle.com/warranty

HAYES

M
manitou

PROTAPER


REYNOLDS


SUN
ringle

INTRODUCTION

This manual is intended to guide the user through the steps necessary to fully service and maintain the Mattoc Pro, Expert, and Comp, along with Junit 34 Pro and Expert & Circus Pro suspension fork.

⚠️ WARNING ⚠️

We highly recommend that service to this fork be performed by a certified bicycle mechanic. Failure to follow instructions presented in this manual could lead to serious injury or death. Any questions about the servicing of this fork or the manual itself should be directed to Hayes Customer Support at:

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REQUIRED TOOLS

Below is a list of tools necessary for changing the travel on the Mattoc, JUNIT 34, and Circus Pro forks:

- Safety Glasses
- Nitrile Gloves
- Lint-Free Rags
- Torque Wrench (6-220 in-lb [0.7-25 Nm])
- 2mm Hex Wrench
- 8mm Hex Wrench
- 14mm Box End Wrench
- Shock Pump
- Cassette Lockring tool* (e.g. Park tool FR-5.2)
- 1" socket
- 8mm Socket *
- 24mm Socket *
- (Optional, replaces items above with*) Manitou Tool Kit - Manitou part number 172-31133 (This includes the Manitou Cassette Tool, 8mm thin wall socket, and flat ground 24mm socket)
- Travel Spacer kit 141-36713-K032

Below is a list of additional tools necessary for a full service of the Mattoc, JUNIT 34, and Circus Pro forks:

- 11mm Socket (Pro and Expert Only)
- Plastic or non-marring pick
- Downhill tire lever or flat blade screwdriver
- 5wt Maxima Fork oil (85-0023) or 3wt Maxima Fork oil (141-34078-K016)
- Semi-bath Oil, 5/40w Synthetic - Manitou part number 85-0022
- Slickoleum™ Grease
- Isopropyl alcohol
- 34mm seal install tool 172-37540-K002
- Cartridge Damper Bleed Kit 141-30694-K020 (Pro Only)
- 34mm seal kit 141-39022-K020 (Pro) or 141-34000 (Exp/Comp)
- Air piston Seal Kit 141-32155-K012 (Pro/Exp) or 141-32156-K011 (Comp) or Rebuild kit 141-39022-K021

CASTING REMOVAL & SERVICE

Manitou recommends a full service anytime the casting is removed. If the fork is new and only a travel change is needed, follow instructions 1-4 then skip to page 34 for Travel change instructions.

- 1 Remove rebound knob using a 2mm Hex wrench.

Note: Be sure to hold the knob still while removing the screw. The damper adjuster may be damaged if the knob is over torqued.



- 2 Hold lock-nut with 14mm end wrench for Pro & Expert, or a 19mm end wrench for Comp. Insert a 8mm Hex wrench into the end of the rebound rod and loosen **clockwise** until rebound rod disengages from the lock-nut.



- 3 Unscrew air cap and attach shock pump. Depress pressure bleed button until pump reads "Zero". Depress Schrader Valve a few times with 2mm hex wrench to ensure all air is released.



CASTING REMOVAL & SERVICE

4

Hold lock-nut with a 14mm (Pro/Expert) or 19mm (Comp) box end wrench. Using 8mm Socket, turn the compression rod **clockwise** until compression rod is disengaged from the lock-nut.



5

Remove casting from fork. It is recommended this be done over a drain pan as the lower casting contains semi-bath oil. Allow oil in casting to drain out before continuing to next step.



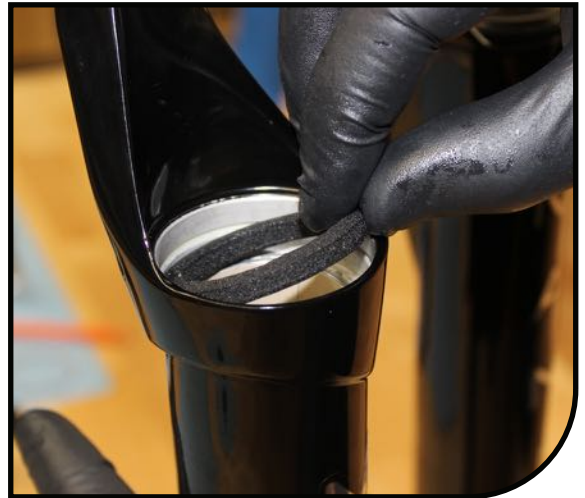
6

Using a downhill tire lever or similar tool, gently pry the dust seals out of the casting.



CASTING REMOVAL & SERVICE

- 7** Remove old foam wiper rings. Thoroughly saturate new foam rings with semi-bath fluid and install into fork casting.



- 8** Remove springs from outer lip of new leg seals. Clean casting seal press area with Isopropyl alcohol.



- 9** Using the Manitou 34/37mm Seal Press, press in the dust seals. Reinstall springs onto seals.



AIR SPRING SERVICE

1

Matroc / JUNIT Pro:

⚠ WARNING ⚠

MAKE SURE THE AIR IS RELEASED FROM THE FORK.

Remove IRT air cap. Depress IRT Schrader Valve with a 2mm hex a few times to ensure all air is released.

Matroc Expert / Comp, JUnit 34 Expert, Circus Pro:

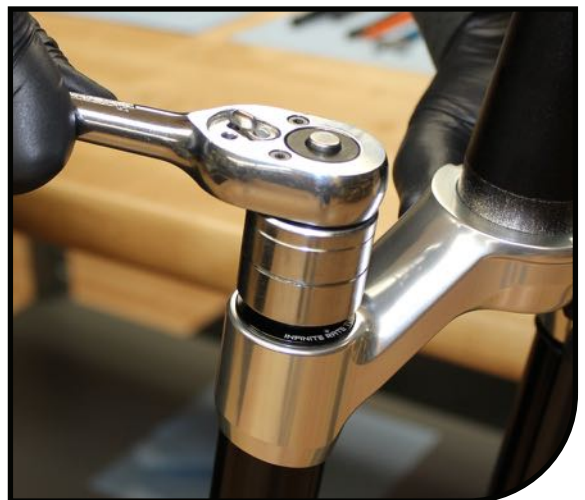
Skip to Step 2.



2

Matroc / JUNIT Pro:

Using a standard cassette tool and 1" socket loosen IRT cap until threads are free from leg.



Matroc Expert / Comp, JUnit 34 Expert, Circus Pro:

Using a 24mm socket, loosen IVA cap until threads are free from leg.



AIR SPRING SERVICE

3

Mattoc / JUNIT Pro:

Pull IRT assembly straight out, Clean with isopropyl, Inspect seal for damage. If needed Replace IRT piston seals.



Mattoc Expert / Comp, JUnit 34 Expert, Circus Pro:

Pull IVA assembly straight out, Clean with isopropyl, Inspect seal for damage. If needed replace IVA piston seals.



4

Invert the fork and use Manitou cassette tool with adjustable wrench to unthread the air spring assembly from the stanchion. OR depress valve on end of comp-rod with 2mm hex and stroke rod to bottom. Slide standard cassette lock-ring tool over threaded adapter and unthread the air spring assembly from the stanchion.



AIR SPRING SERVICE

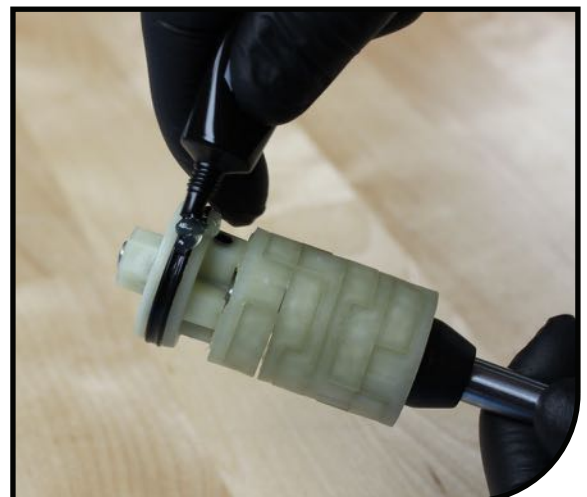
- 5** Remove Air Spring Assembly, clean with isopropyl, Inspect seal for damage. Replace air piston seal 141-32155-K012 (Pro/Exp) or 141-32156-K011 (Comp). **If Travel change is need see page 34 before moving on.**



- 6** Once the air spring assembly is removed clean the inside of the stanchion with isopropyl alcohol and a lint free towel (Be careful to not scratch the inner surface of the stanchion). Inspect the inside and outside of the stanchion for scratches or other damage.



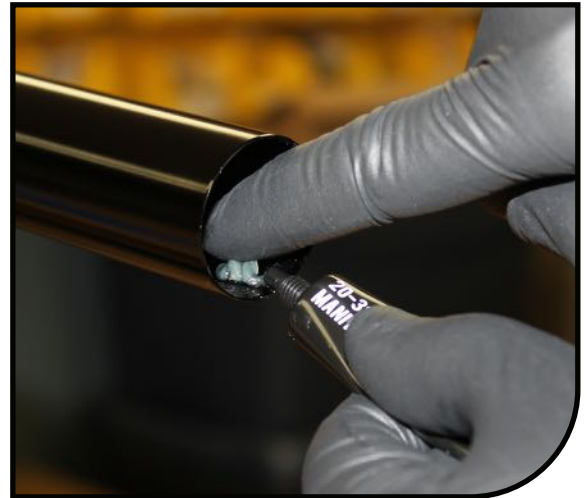
- 7** Liberally apply Slickoleum™ grease to the piston seal, outer piston surface, and spring shaft. Add 3cc's of Slickoleum™ grease to the top of the air piston.



AIR SPRING SERVICE

8

Add Slickoleum™ grease to the stanchion threads before inserting the air spring assembly. Spread grease across entire thread surface.



9

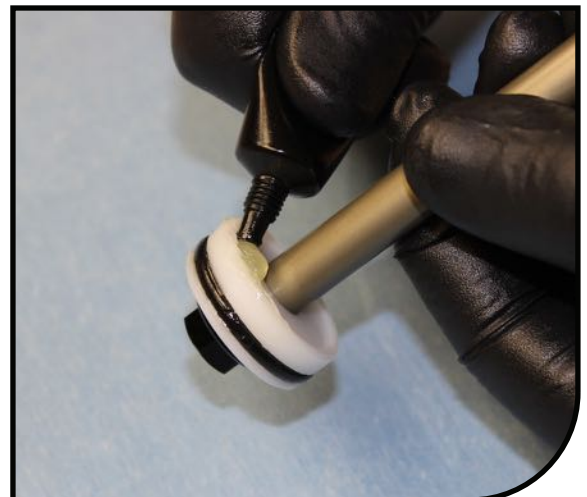
Install air spring assembly into stanchion. Using a 26mm crow's foot and Manitou cassette tool **OR** 1" Socket and Standard cassette tool torque to 40-45 LB-IN [4.5-5.1 Nm]. If rod is bottomed, attach shock pump to valve and draw the rod out until fully extended.



10

Mattoc / JUNIT Pro:

Liberally apply Slickoleum™ grease to the IRT piston seal, outer piston surface, and IRT shaft. Apply Slickoleum™ grease to the threads of the stanchion.



AIR SPRING SERVICE

Mattoc Expert / Comp, JUnit 34 Expert, Circus Pro:

Liberally apply Slickoleum™ grease to the IVA piston seal and outer piston surface. Apply Slickoleum™ grease to the threads of the stanchion.



11

Mattoc / JUNIT Pro:

Insert IRT piston into stanchion. Apply even pressure to piston surface as you work the piston seal past the stanchion threads.



Mattoc Expert / Comp, JUnit 34 Expert, Circus Pro:

Insert IVA Piston into the stanchion.



AIR SPRING SERVICE

12

Mattoc / JUNIT Pro:

Install IRT cap into stanchion.
Torque to 200-220 LB-in [22.6-25 Nm] using standard cassette locking tool.



Mattoc Expert / Comp, JUnit 34 Expert, Circus Pro:

Install IVA cap into stanchion.
Torque to 200-220 LB-in [22.6-25 Nm] using a 24mm socket.



AIR SPRING SERVICE

13

Mattoc / JUNIT Pro:

Attach a shock pump and inflate IRT to 100PSI.

NOTE: ALWAYS SET IRT PRESSURE (TOP OF FORK) BEFORE DORADO AIR PRESSURE (BOTTOM OF FORK)

Mattoc Expert / Comp, JUnit 34 Expert, Circus Pro:

Skip to step 14.



14

Attach a shock pump and inflate main air chamber to 30 PSI. This will aid in installing the casting later.



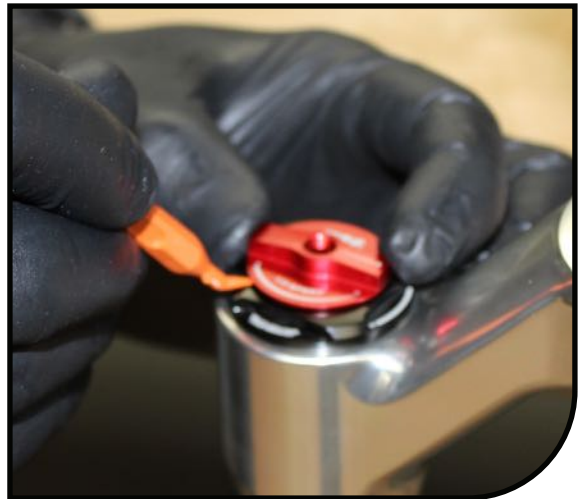
MC2 SEALED DAMPER SERVICE

- 1 Using a 2mm Hex wrench remove the screw of the red "LO-SPEED" MC2 knob.

Note: Be sure to hold the knob still while removing the screw. The damper adjuster may be damaged if the knob is over torqued.



- 2 Use a non-marring pick or pliers with non-marring barrier to remove the red "LO-SPEED" compression knob by lifting straight up.



- 3 With a 11mm socket, unthread the exposed nut and remove the black "HI-SPEED" adjustment knob.

Note: Be sure to hold the knob still while removing the nut. The damper adjuster may be damaged if the knob is over torqued.



MC2 SEALED DAMPER SERVICE

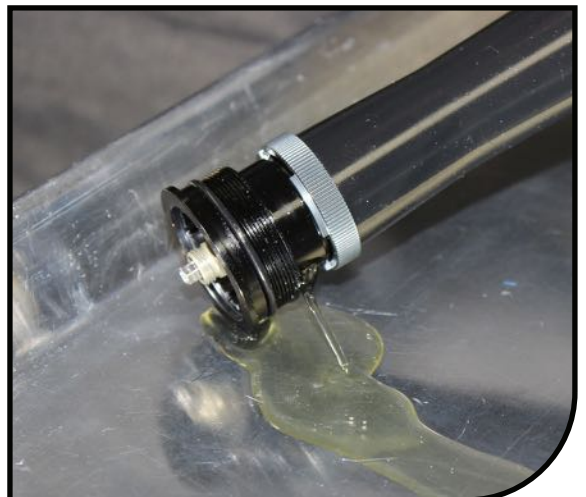
- 4** Remove the v-seal that was under the black "HI-SPEED" adjustment knob.



- 5** Use a standard cassette tool and 1" socket to unthread the damper top-cap from the stanchion. Remove damper assembly from the stanchion. Inspect damper shaft and bladder for any damage.

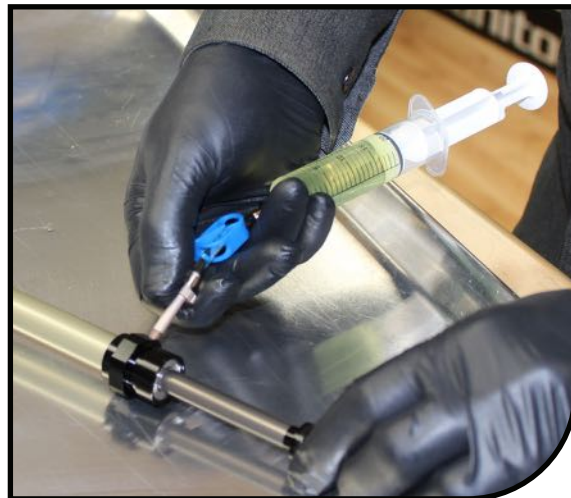


- 6** Pull damper shaft to full extension. Remove bleed-screw on side of top-cap. Place damper top-cap over catch pan. Cycle damper shaft several times to cycle out old oil from damper.



MC2 SEALED DAMPER SERVICE

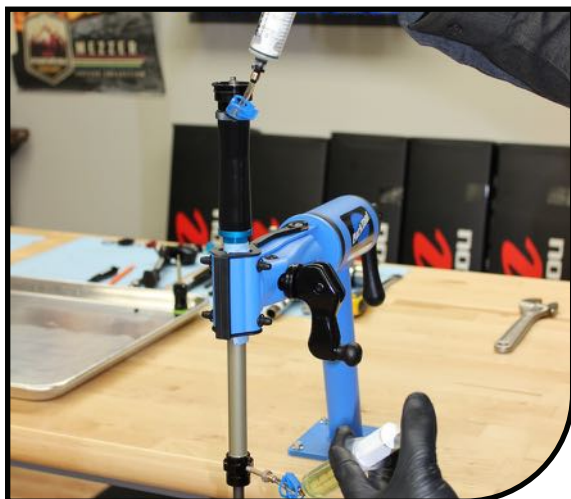
- 7** Attach M5x0.8 Luer lock fitting to both syringes (141-30695-K020). Fill one syringe with 3wt Damper oil (141-34078-K016).



- 8** Attach the empty syringe M5x.8 adapter to top-cap bleed port. Remove bleed-screw from damper end-cap and attach the filled syringe M5x.8 adapter to end-cap bleed port.



- 9** Holding the damper end-cap up-right in vise simultaneously compress the filled syringe and retract the empty syringe to remove air from the damper. Refill the syringe as needed until oil is drawn into the upper syringe.

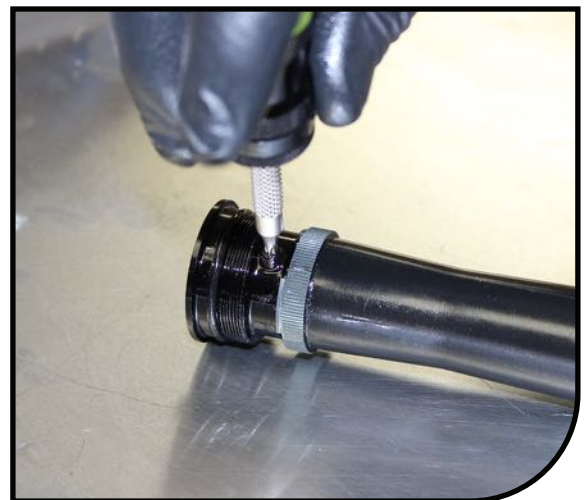


MC2 SEALED DAMPER SERVICE

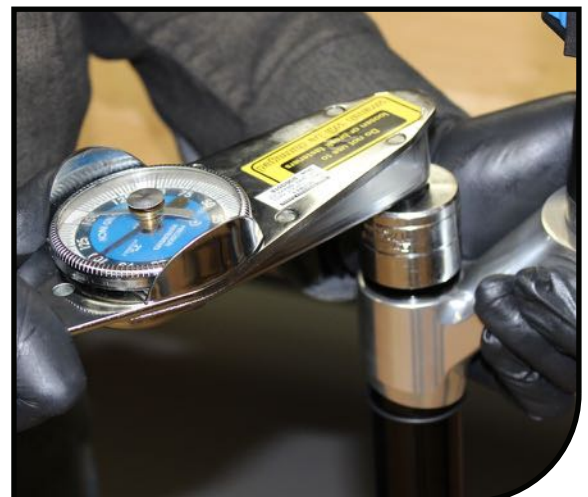
- 10** Closing the bleed hose clamp on both syringes cycle the damper SLOWLY to draw air to the top of the damper. Open bleed hose clamps and repeat step 10 until no air bubbles are present in oil drawn into upper syringe.



- 11** Fully extend damper shaft and add oil from bottom syringe until bladder is slightly expanded. Closing the bleed hose clamp on both syringes remove cartridge from vise. Lay cartridge flat on bench. Remove lower syringe and replace bleed screw. Some oil may discharge from bleed port when removing syringe. Remove upper syringe and replace bleed screw.



- 12** Install Damper cartridge into stanchion. Using standard cassette lock-ring tool Torque to 200-220 LB-in [22.6-25 Nm].



MATTOC PRO CASTING INSTALLATION

- 1 Apply a light coating of semi-bath (85-0022) to the inner diameter of the oil seal/dust wiper.



- 2 Make sure the spring shaft is fully extended and air chamber is filled with air (30 PSI).



- 3 Fully extend the damper shaft.



MATTOC PRO CASTING INSTALLATION

- 4** Slide casting onto the stanchion assembly. Only slide the casting down about halfway at this point. Take care that the seal lips do not fold over upon installation.



- 5** Insert 14cc of semi-bath (85-0022) into each casting leg. Once the semi-bath is in the legs slide the casting the rest of the way onto the stanchion assembly until the damper and spring shaft adapters pass thru the end of the casting. Some manual alignment may be needed.



- 6** Thread the lock-nut onto the damper shaft adapter. Holding the lock-nut with a 14mm box wrench, use an 8mm Hex wrench to tighten the rebound damper adapter to 35–40 in-lb [3.95–4.5 Nm] by turning them **counter-clockwise**. Do not overtighten, doing so can damage the threads.



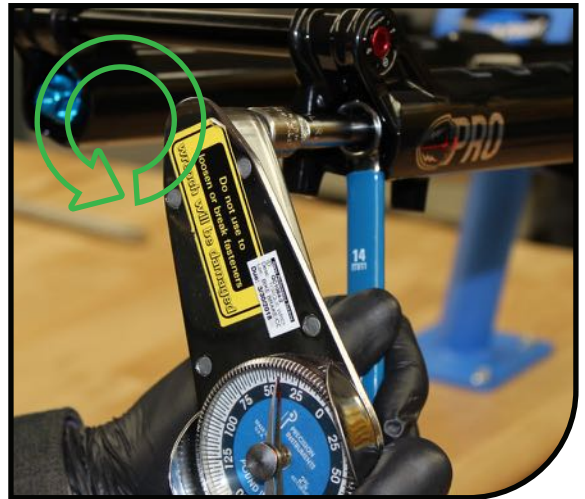
MATTOC PRO CASTING INSTALLATION

- 7** Install the rebound knob using a 2mm Hex wrench. Add a small drop of blue Loctite to the screw before installation to prevent the screw from backing out during riding.

Note: Be sure to hold the knob still while removing the screw. The damper adjuster may be damaged if the knob is over torqued.



- 8** Thread the other lock-nut onto the spring shaft adapter. Holding the lock-nut with a 14mm box wrench, use an 8mm socket tighten the compression rod adapter to 35–40 in-lb [3.95–4.5 Nm] by turning them **counter-clockwise**. Do not overtighten, doing so can damage the threads.



MATTOC PRO COMPRESSION KNOB INSTALLATION

- 1** Clean the adjuster knobs with isopropyl and replace v-seal into top-cap counter-bore.
- 2** Install the black "HI-SPEED" adjustment knob onto adjuster hex. With a 11mm socket, thread on the lock nut and torque to 4-6 in-lb [0.5-0.7 Nm] Note: Be sure to hold the knob still while installing the nut. The damper adjuster may be damaged if the knob is over torqued.
- 3** Lubricate o-ring seal on red "LO-SPEED" adjustment knob with Slickoleum™ Grease and install onto adjuster hex. With a 2mm hex, thread on the screw and torque to 4-6 in-lb [0.5-0.7 Nm] Note: Be sure to hold the knob still while installing the screw. The damper adjuster may be damaged if the knob is over torqued.



- 4** Clean fork and use a shock pump to set to desired pressure. Lightly pull the casing away from the CSA as you add air.



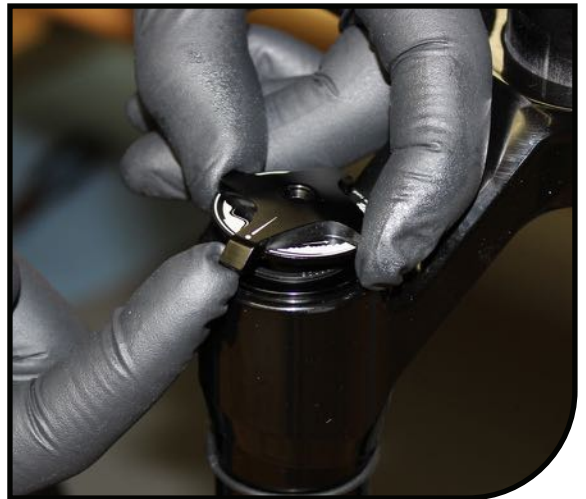
VTT6 DAMPER SERVICE

1 Using a 2mm Hex wrench remove the screw of the VTT6knob.

Note: Be sure to hold the knob still while removing the screw. The damper adjuster may be damaged if the knob is over torqued.



2 Use a non-marring pick or pliers with non-marring barrier to remove the black VTT knob by lifting straight up.

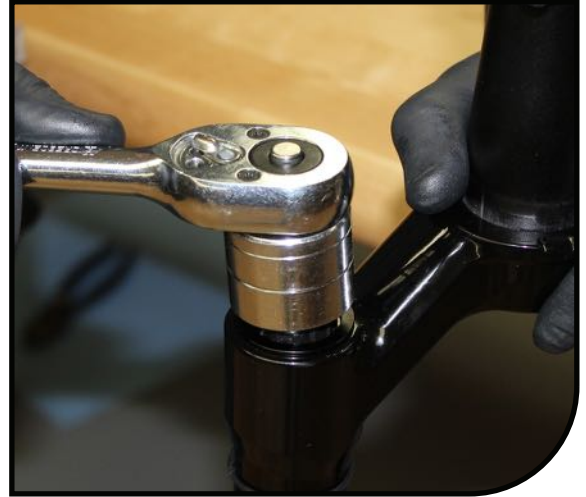


3 Remove the v-seal that was under the black VTT adjustment knob.



VTT6 DAMPER SERVICE

- 4** Use a standard cassette tool and 1" socket to unthread the damper top-cap from the stanchion.



- 5** Remove damper assembly from the stanchion. Inspect damper piston seal for any damage.



- 6** Tip out used damper oil from top of stanchion into drain pan. Cycle damper shaft several times to cycle out old oil from damper.



ABS+ DAMPER SERVICE

1 Using a 2mm Hex wrench remove the screw of the ABS+ knob.

Note: Be sure to hold the knob still while removing the screw. The damper adjuster may be damaged if the knob is over torqued.

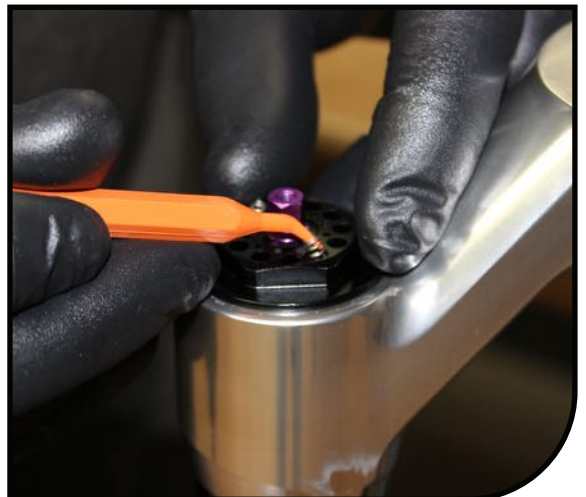
Note: Small detent balls and springs are located below ABS+ knob.



2 Knob can be removed by hand.

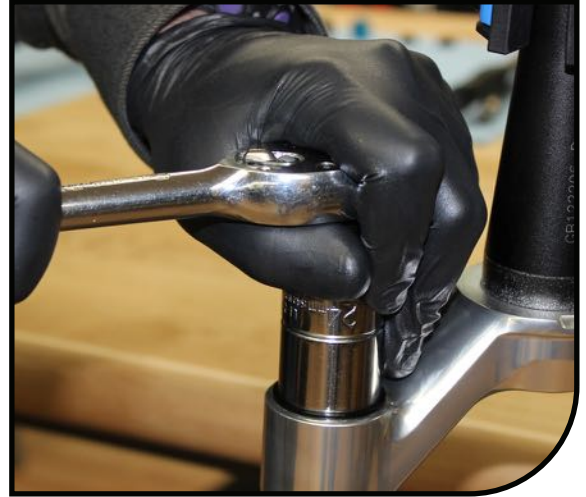


3 Remove detent balls and springs from the ABS+ top cap.



ABS+ DAMPER SERVICE

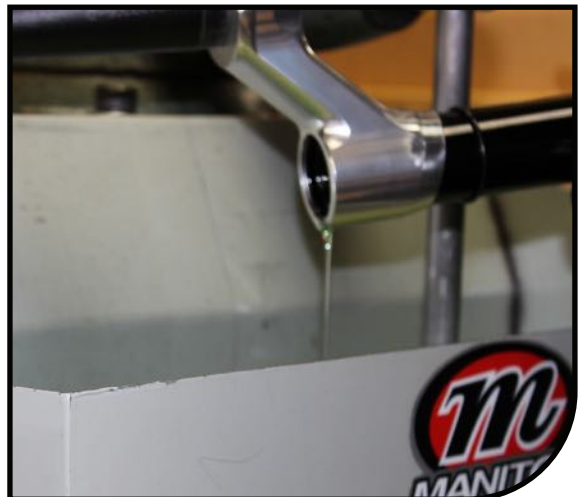
4 Use 24mm socket to unthread the damper top cap from the stanchion.



5 Remove damper assembly from the stanchion. Inspect damper piston seal for any damage.



6 Tip out used damper oil from top of stanchion into drain pan. Cycle damper shaft several times to cycle out old oil from damper.



MATTOC EXP/COMP, JUNIT, & CIRCUS CASTING INSTALL

- 1 Apply a light coating of semi-bath (85-0022) to the inner diameter of the oil seal/dust wiper.



- 2 Make sure the spring shaft is fully extended and air chamber is filled with air (30 PSI).



- 3 Fully extend the damper shaft.



MATTOC EXP/COMP, JUNIT, & CIRCUS CASTING INSTALL

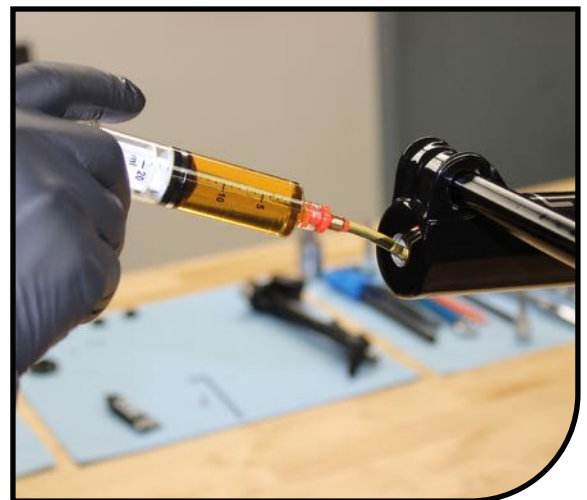
4

Slide casting onto the stanchion assembly. Only slide the casting down about halfway at this point. Take care that the seal lips do not fold over upon installation.



5

Insert 14cc Mattoc / Circus Pro, 7cc JUnit 34 of semi-bath (85-0022) into each casting leg. Once the semi-bath is in the legs slide the casting the rest of the way onto the stanchion assembly until the damper and spring shaft adapters pass thru the end of the casting. Some manual alignment may be needed.



6

Thread the lock-nut onto the damper shaft adapter. Holding the lock-nut with a 14mm Pro/Expert, 19mm Comp box wrench, use an 8mm Hex wrench to tighten the rebound damper adapter to 35–40 in-lb [3.95–4.5 Nm] by turning them **counter-clockwise**. Do not overtighten, doing so can damage the threads.



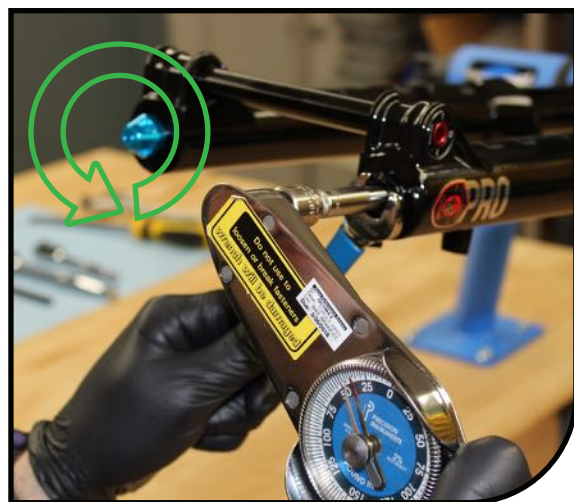
MATTOC EXP/COMP, JUNIT, & CIRCUS CASTING INSTALL

- 7** Install the rebound knob using a 2mm Hex wrench. Add a small drop of blue Loctite to the screw before installation to prevent the screw from backing out during riding.

Note: Be sure to hold the knob still while removing the screw. The damper adjuster may be damaged if the knob is over torqued.



- 8** Thread the other lock-nut onto the spring shaft adapter. Holding the lock-nut with a 14mm Pro / Expert, 19mm Comp box wrench, use an 8mm socket tighten the compression rod adapter to 35–40 in-lb [3.95–4.5 Nm] by turning them **counter-clockwise**. Do not overtighten, doing so can damage the threads.



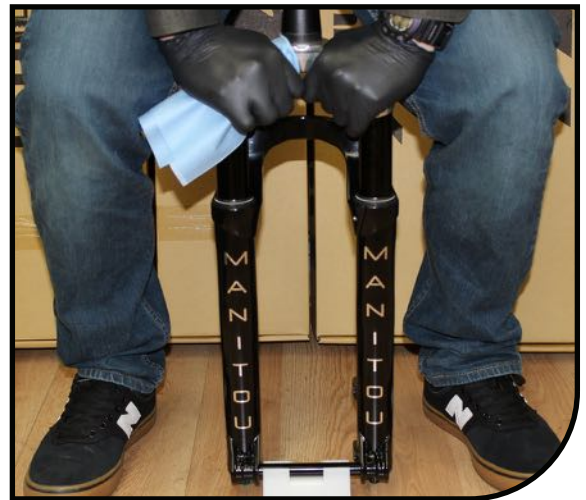
VTT6 AND ABS+ DAMPER INSTALLATION

- 1 Fill damper leg about 3/4 full with Maxima fork oil (85-0023).



- 2 Install the axle into the fork without a hub or wheel. Cover the damper leg opening with a lint-free towel. Using a wood block or similar raised support underneath the axle, compress the fork 10-15 times.

The raised support should be wide enough and long enough to safely support the axle as well as tall enough to eliminate contact between the floor and the air cap or rebound knob. Do not overtighten the axle bolt.



- 3 With the fork fully extended add oil to the height of 75mm measured from the top of the stanchion.

NOTE: OIL HEIGHT IS SET WITH FORK FULL EXTENDED AND CASTING INSTALLED



VTT6 AND ABS+ DAMPER INSTALLATION

- 4** With the VTT6 / ABS+ adjuster in the OPEN/ full counter clockwise position, install damper assembly into stanchion. Using a standard cassette lock-ring tool for VTT6, or a 24mm socket for ABS+ to 200-220 LB-in [22.6-25 Nm].



- 5** Clean the adjuster knobs with isopropyl and replace v-seal into damper top cap. Install the black VTT6 adjustment knob onto adjuster hex, being sure the knob can fully rotate without contacting the crown.



Option: ABS+ Install springs and ball bearings into ABS+ top cap. A small dab of grease on top of the spring can help hold the ball bearings in place.



VTT6 AND ABS+ DAMPER INSTALLATION

6

With a 2mm hex, thread on the screw and torque to 4-6 in-lb [0.5-0.7 Nm] Note: Be sure to hold the knob still while installing the screw. The damper adjuster may be damaged if the knob is over torqued.



7

Clean fork and use a shock pump to set to desired pressure. Lightly pull the casting away from the CSA as you add air. See set-up sheet for recommended air pressures.



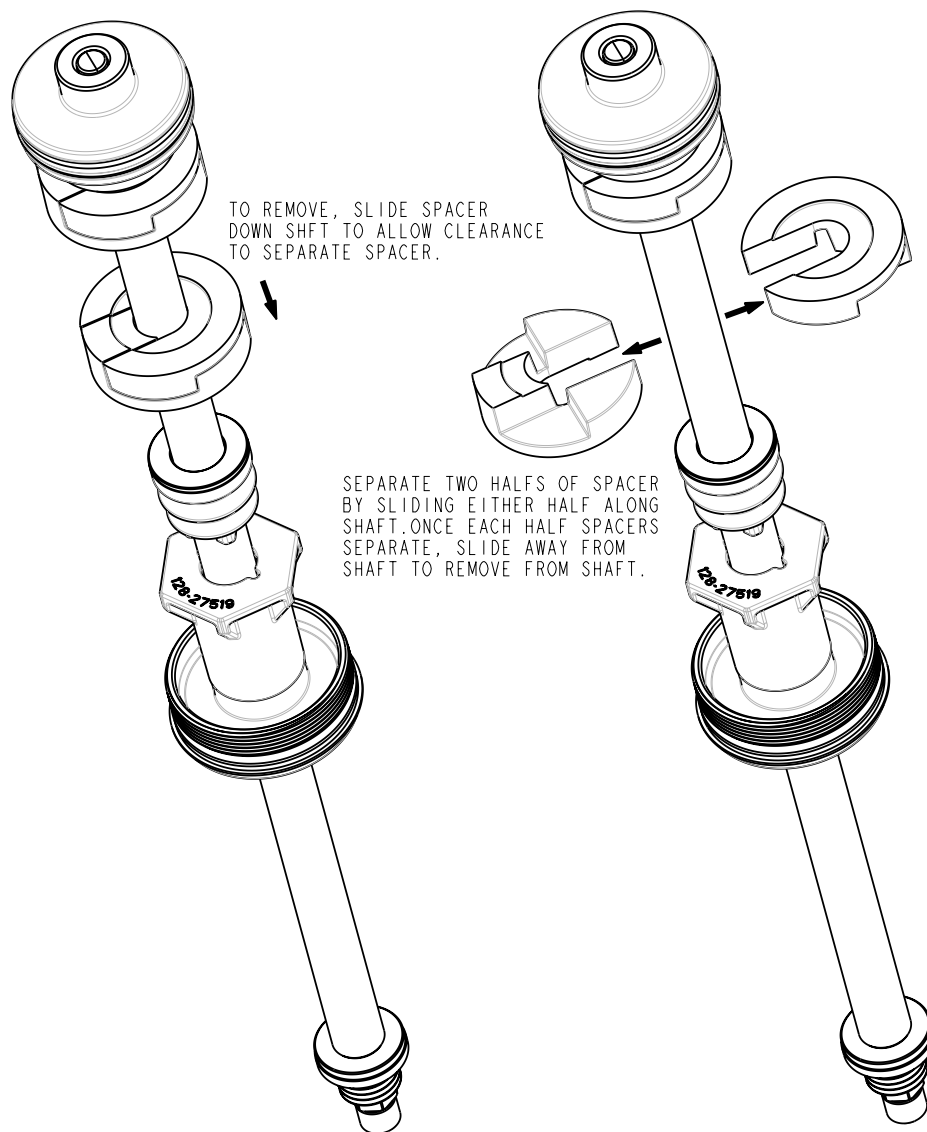
TRAVEL CHANGE

In order to change the travel of your Mattoc, JUnit 34, or Circus Pro, first remove the compression rod assembly. For travel change on new forks, bath oil may be preserved by removing stanchion assembly while fork is placed flat on benchtop. Once the rod is removed arrange the travel spacers into the desired amount of travel using the charts on the following pages.

increasing travel

Increasing Travel: Each spacer removed increase travel & axel-to-crown by 10mm.

Note: Mattoc Pro / Expert and Circus Pro use a two piece spacer. (use note below about seperating them). Mattoc Comp, JUnit Pro / Expert use a once piece spacer that clips onto the comp rod.

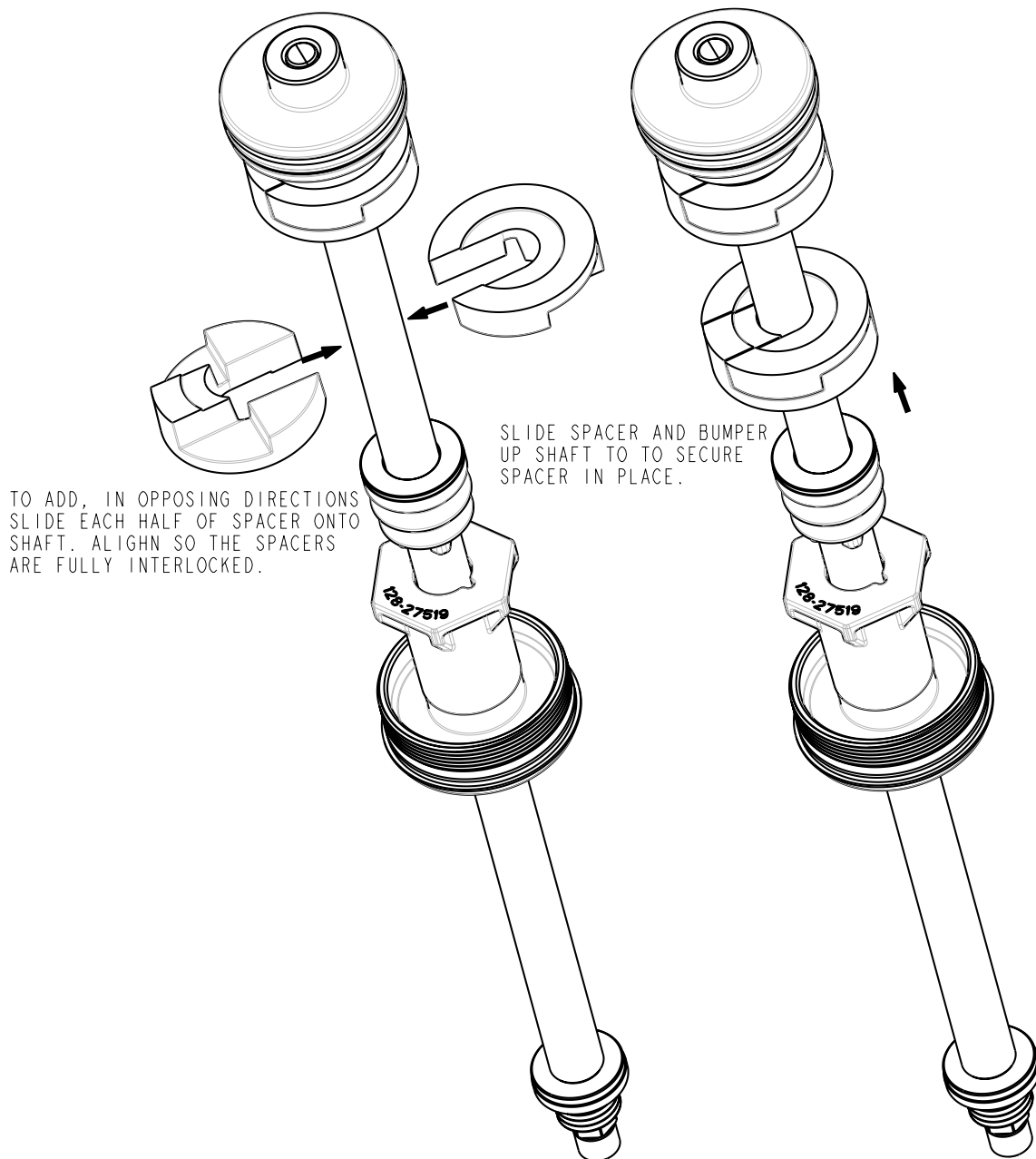


TRAVEL CHANGE

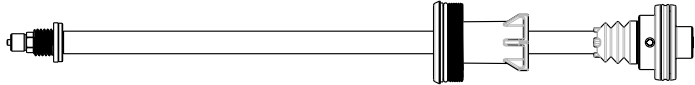
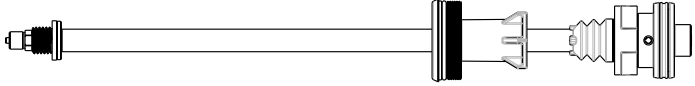
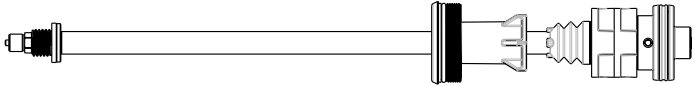
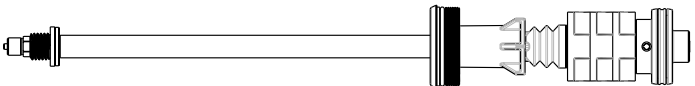
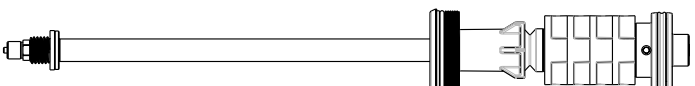
decreasing travel

Decrease Travel: Each spacer added decreases travel & Axle-To-Crown by 10mm.

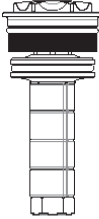
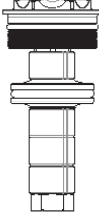
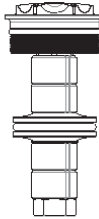
Note: Mattoc Pro / Expert and Circus Pro use a two piece spacer. (use note below about separating them). Mattoc Comp, JUnit Pro / Expert use a once piece spacer that clips onto the comp rod.



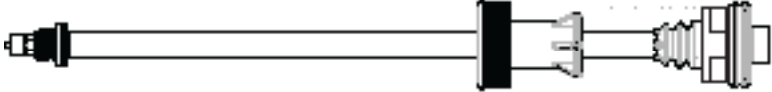
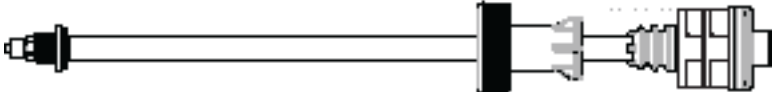
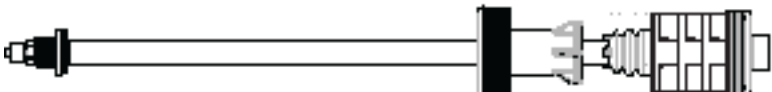
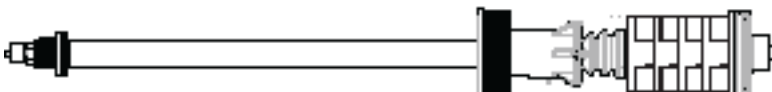
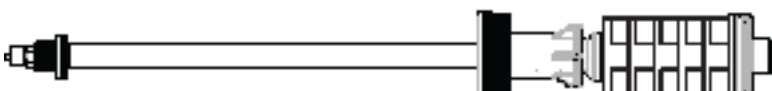
MATTOC PRO / EXPERT TRAVEL SPACERS

# OF SPACERS	TRAVEL	DEPICTION
0	150	
1	140	
2	130	
3	120	
4	110	

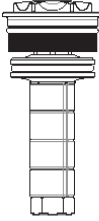
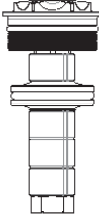
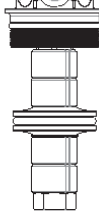
MATTOC EXPERT IVA SETTING

TRAVEL	IVA POSITION	DEPICTION
150	1	
140	2	
130	2	
120	3	
110	3	

MATTOC COMP TRAVEL SPACERS

# OF SPACERS	TRAVEL	DEPICTION
1	150	
2	140	
3	130	
4	120	
5	110	

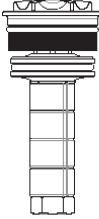
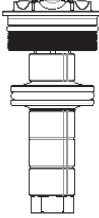
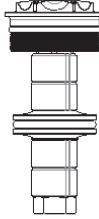
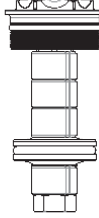
MATTOC COMP IVA SETTING

TRAVEL	IVA POSITION	DEPICTION
150	1	
140	2	
130	2	
120	3	
110	3	

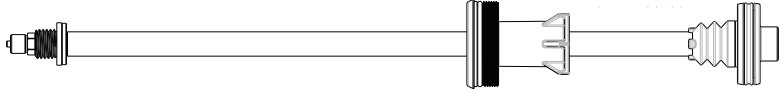
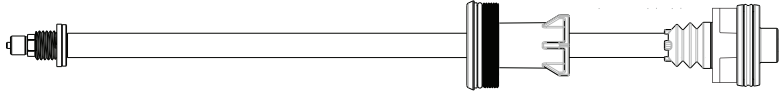
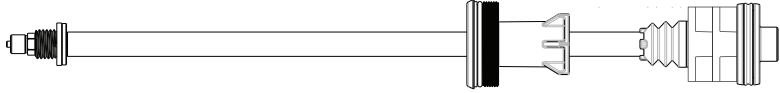
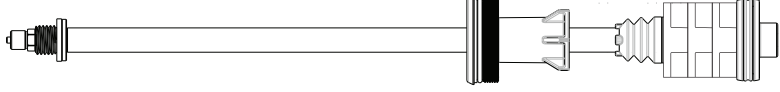
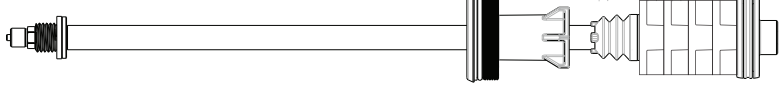
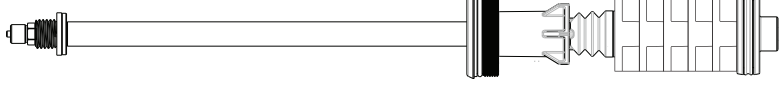
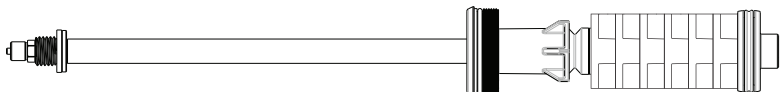
JUNIT 34 TRAVEL SPACERS

# OF SPACERS	TRAVEL	DEPICTION
0	160	
1	150	
2	140	
3	130	
4	120	
5	110	
6	100	
7	90	
8	80	

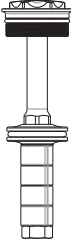
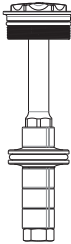
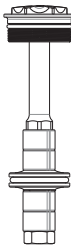
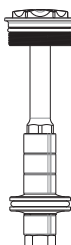
JUNIT 34 PRO / EXPERT IVA SETTING

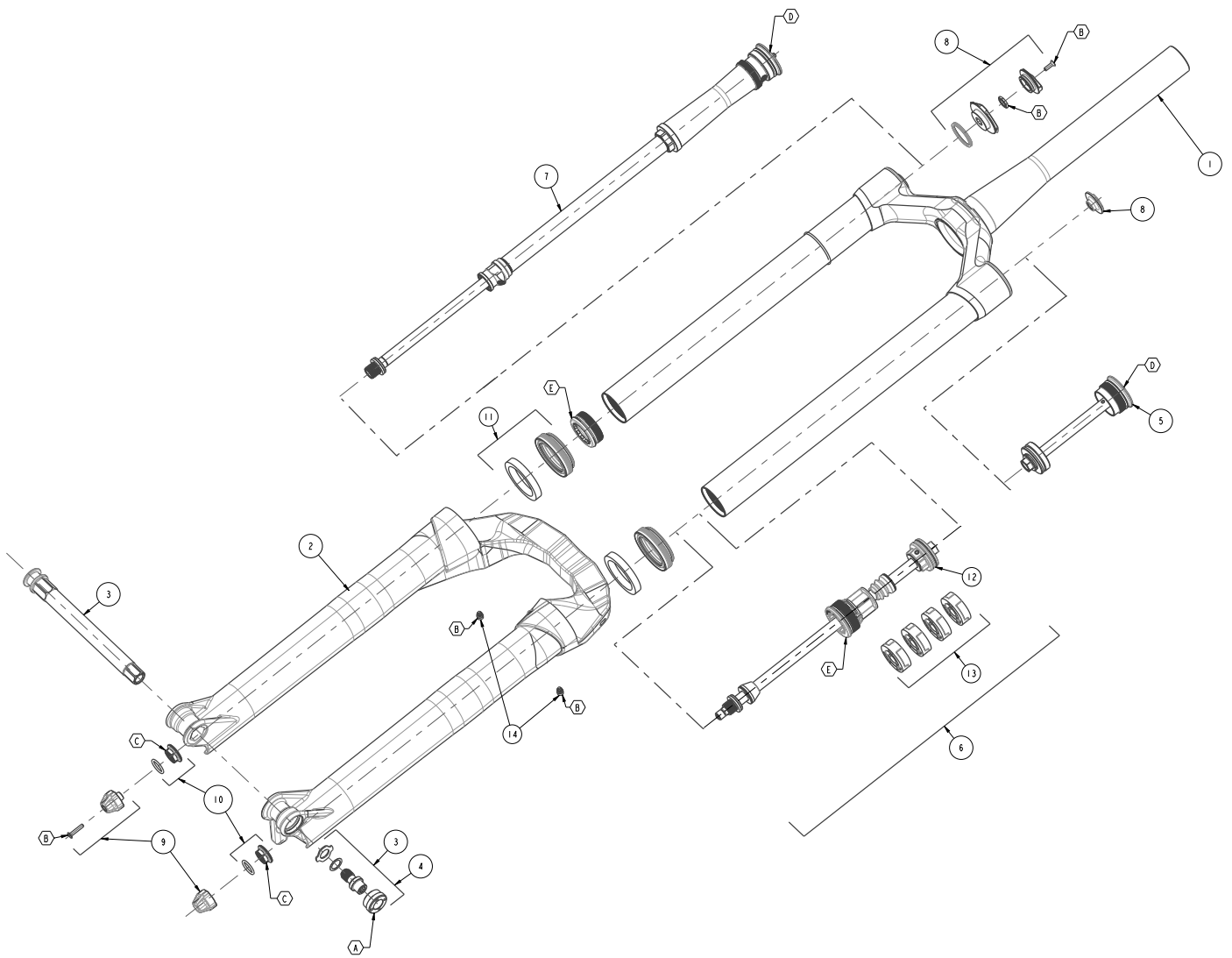
TRAVEL	IVA POSITION	DEPICTION
160	1	
150		
140	2	
130		
120	3	
110		
100	4	
90		
80		

CIRCUS PRO TRAVEL SPACERS

# OF SPACERS	TRAVEL	DEPICTION
0	140	
1	130	
2	120	
3	110	
4	100	
5	90	
6	80	

CIRCUS PRO IVA SETTING

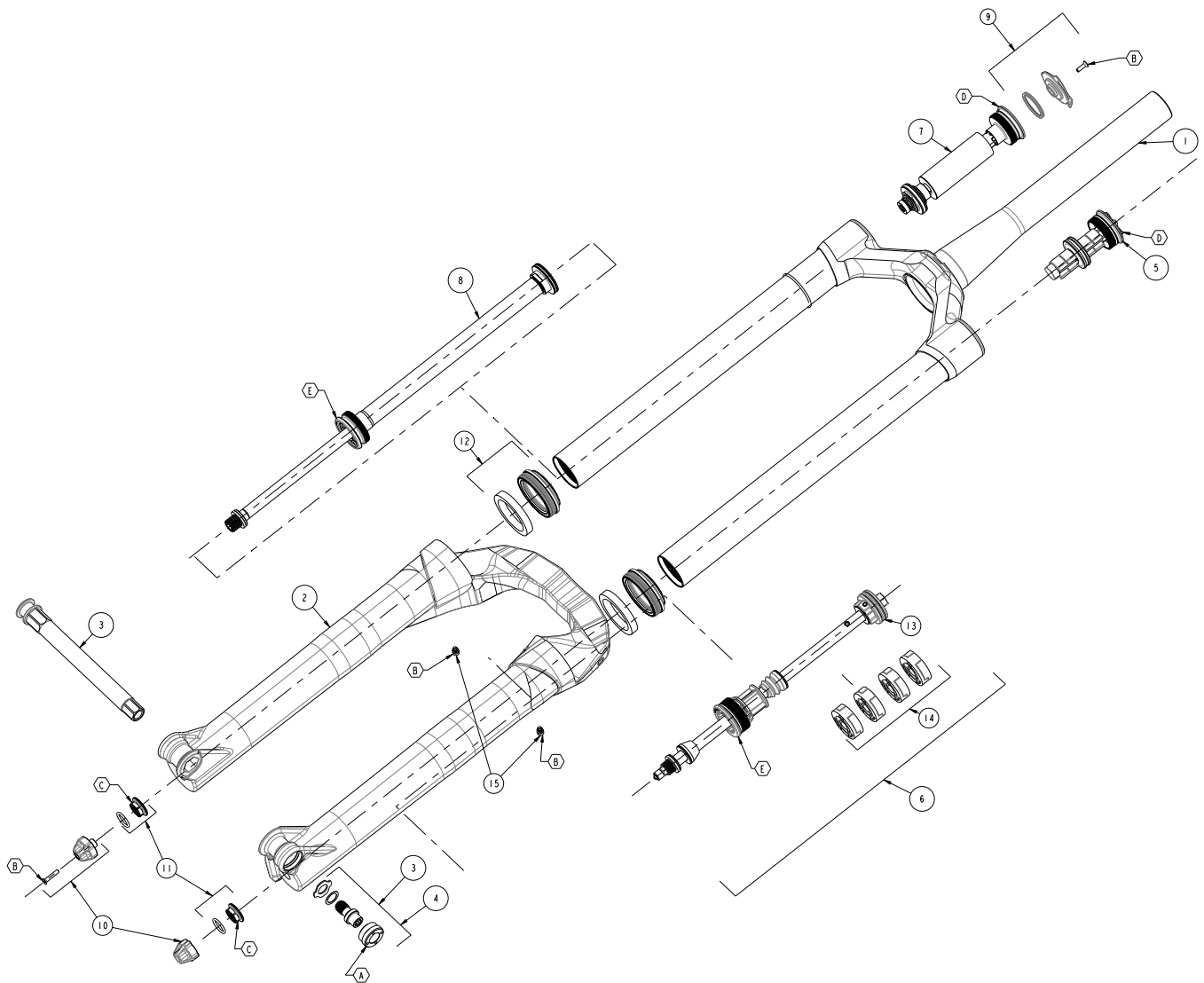
TRAVEL	IVA POSITION	DEPICTION
140	1	
130	2	
120		
110	3	
100		
90	4	
80		



MATTOC PRO EXPLODED VIEW & PARTS

ITEM #	PART DESCRIPTION	KIT NUMBER
1	CROWN-STEER ASSY, 440S, M31XO 8, MY14 PRO POLISH-CLEAR	141-39022-K038
	CROWN-STEER ASSY, 370S, M31XO 8, MY24 PRO POLISH-CLEAR	141-39022-K039
2	CASTING, 29" MY24 MATTOC GLOSS BLACK	141-39022-K007
	CASTING, 27 5" MY24 MATTOC GLOSS BLACK	141-39022-K008
	CASTING, 29" MY24 MATTOC PRO LE SILVER-GRAY	141-39022-K042
3	AXLE, HEXLOCK SL2, 110 ALUMINUM WITH HARDWARE	141-33147-K005
4	AXLE HARDWARE, HEXLOCK SL2	141-33147-K006
5	IRT ASSY M31XO 8, 29.85 MY24 MATTOC	141-39022-K010
6	DORADO AIR SPRING ASSY (INCLUDES TRAVEL SPACERS)	141-39022-K009
7	CARTRIDGE ASSY, MC2 34MM 150 M31X0.8, W/ KNOBS	141-39022-K012
8	KNOBS, MC2/IRT, ALUMINUM	141-39022-K018
9	REBOUND KNOB/ AIR VALVE CAP	141-32155-K016
10	FOOT-NUT, M12X1.5 SHAFT (2PC)	141-39022-K017
11	SEALS, 34MM, SKF W/ FOAM RINGS	141-39022-K020
12	AIR PISTON, SEAL ONLY OUADE-RING (31.00 LEG)	141-32155-K012
13	TRAVEL ADJUST SPACER KIT	141-36713-K032
14	BLEED SCREW, 2PC	141-36713-K035
REF	DECAL KIT, MY24 MATTOC PRO/EXPERT/COMP	141-39022-K023
REF	REBUILD KIT, MY24 MATTOC	141-39021-K021
REF	REBUILD KIT, DAMPER CARTRIDGE, MY24+ MC2 (HNBR)	141-39022-K041
REF	FENDER & HOSE-GUIDE KIT	141-36103-K001
REF	FENDER KIT	141-36103-K002
REF	HOSE GUIDE KIT	141-36103-K003

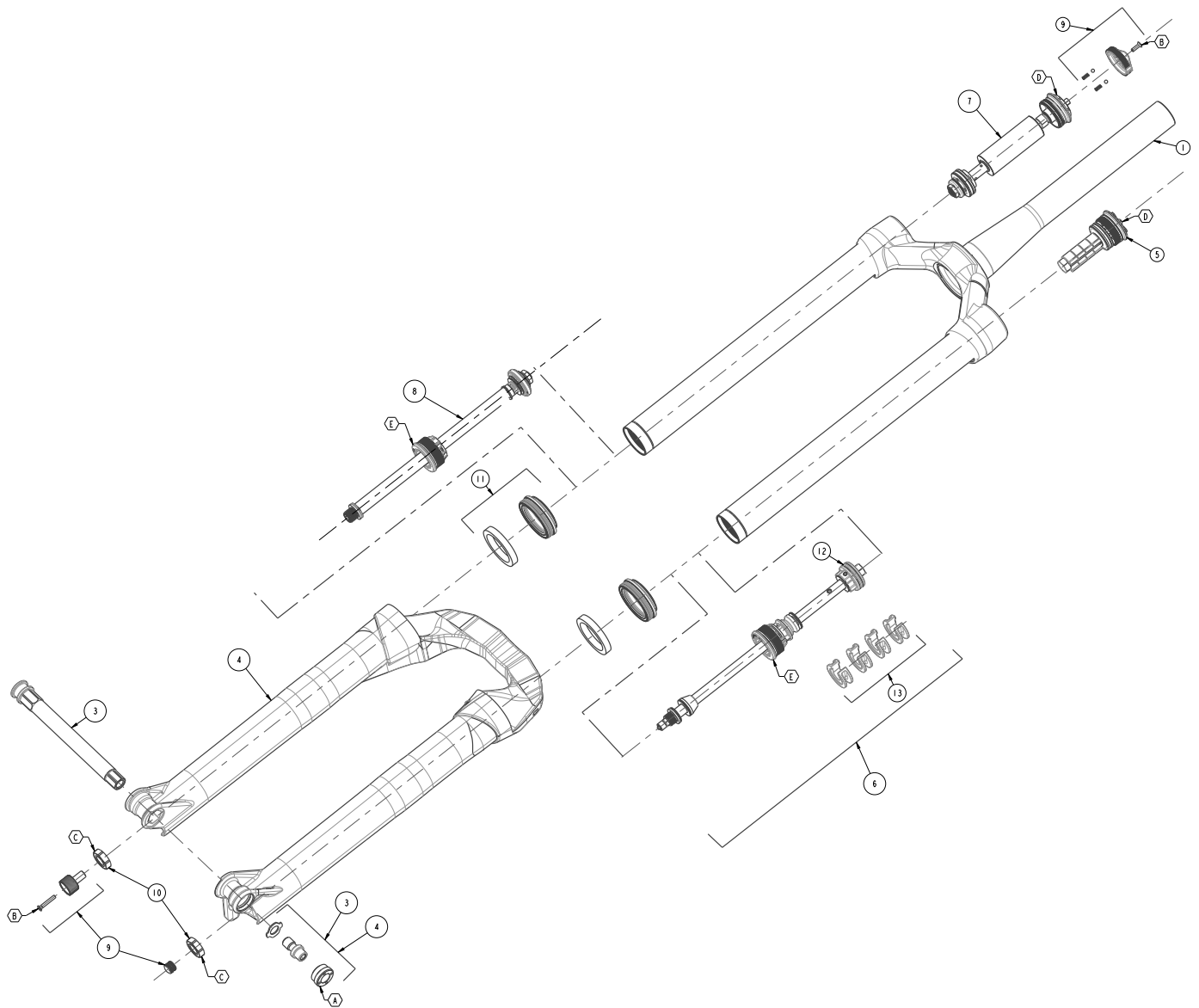
MATTOC EXPERT EXPLODED VIEW & PARTS



MATTOC EXPERT EXPLODED VIEW & PARTS

ITEM #	PART DESCRIPTION	KIT NUMBER
1	CROWN-STEER ASSY, 44OS, M31X0.8, MY24 MATTOC GLOSS BLK	141-39022-K003
	CROWN-STEER ASSY, 37OS, M31X0.8, MY24 MATTOC GLOSS BLK	141-39022-K004
2	CASTING, 29" MY24 MATTOC GLOSS BLACK	141-39022-K007
	CASTING, 27.5" MY24 MATTOC GLOSS BLACK	141-39022-K008
3	AXLE, HEXLOCK SL2, 110 ALUMINUM (WITH HARDWARE)	141-33147-K005
4	AXLE HARDWARE, HEXLOCK SL2/SLC	141-33147-K006
5	IVA ASSY M31X0.8, 29.85 MY24 MATTOC	141-39022-K032
6	DORADO AIR SPRING ASSY (INCLUDES TRAVEL SPACERS)	141-39022-K009
7	COMPRESSION DAMPER ASSY, VTT6, M31X0.8, 29.85	141-39022-K013
8	REBOUND DAMPER ASSY, CARTRIDGE M32X I MY24 MATTOC EXP	141-39022-K014
9	KNOBS, VTT6, REBOUND, AIR CAP, FOOT-NUT	141-36713-K033
10	REBOUND KNOB, AIR VALVE CAP	141-32155-K016
11	FOOT-NUT, M12X1.5 SHAFT (2PC)	141-39022-K017
12	SEALS, 34MM, TSS W/ FOAM RINGS	141-34000
13	AIR PISTON, SEAL ONLY QUAD-RING (31.00 LEG)	141-32155-K012
14	TRAVEL ADJUST SPACER KIT	141-36713-K032
15	BLEED SCREW, 2PC	141-36713-K035
REF	DECAL KIT, MY24 MATTOC PRO/EXPERT/COMP	141-39022-K023
REF	REBUILD KIT, MY24 MATTOC	141-39022-K021
REF	FENDER & HOSE-GUIDE KIT	141-36103-K001
REF	FENDER KIT	141-36103-K002
REF	HOSE GUIDE KIT	141-36103-K003

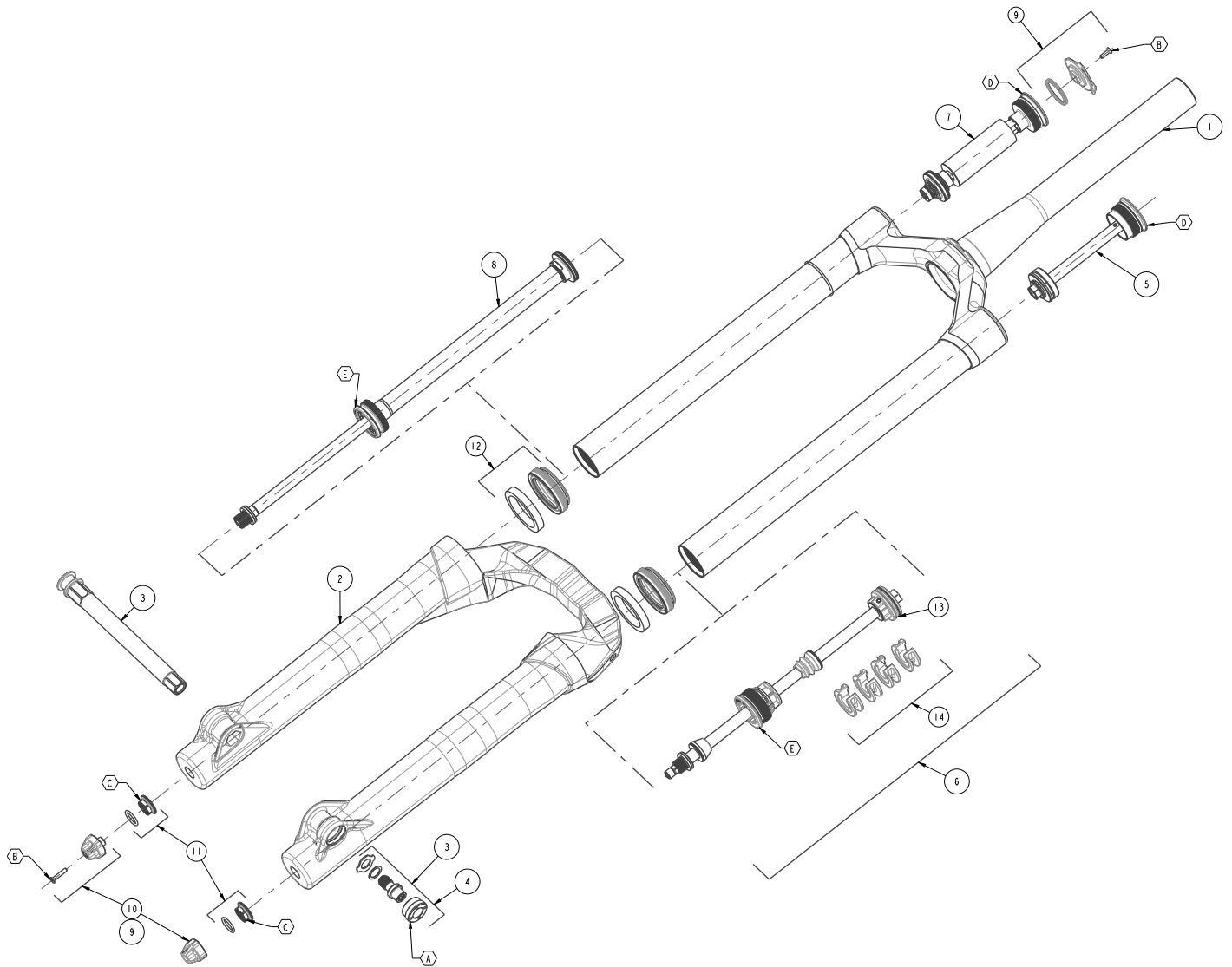
MATTOC COMP EXPLODED VIEW & PARTS



MATTOC COMP EXPLODED VIEW & PARTS

ITEM #	PART DESCRIPTION	KIT NUMBER
1	CROWN-STEER ASSY, 44OS, M31X0.8, MY24 MATTOC MATTE BLK	141-39022-K005
	CROWN-STEER ASSY, 37OS, M31X0.8, MY24 MATTOC MATTE BLK	141-39022-K006
2	CASTING, 29" MY24 MATTOC GLOSS BLACK	141-39022-K007
	CASTING, 27.5" MY24 MATTOC GLOSS BLACK	141-39022-K008
3	AXLE, HEXLOCK SL, 110 ALUMINUM (WITH HARDWARE)	141-33147-K002
4	AXLE HARDWARE, HEXLOCK SL	141-33147-K003
5	IVA ASSY M31X0.8, 29.09	141-32668-K008
6	EXPERT AIR SPRING ASSY (INCLUDES TRAVEL SPACERS)	141-39022-K011
7	COMPRESSION DAMPER ASSY, ABS+ ENDURO, M31X0.8, 29.5	141-39022-K015
8	REBOUND ASSY, 29.09 LEG M31.5X0.8 MY24 MATTOC COMP	141-39022-K016
9	KNOBS, MY24 MATTOC COMP	141-36683-K015
10	FOOT-NUT, M12X1.5 SHAFT (2PC)	141-39022-K017
11	SEALS, 34MM, TSS W/ FOAM RINGS	141-34000
12	AIR PISTON, SEAL ONLY QUAD-RING (29.09 LEG)	141-32156-K011
13	TRAVEL ADJUST SPACER KIT	141-30159-K012
REF	DECAL KIT, MY24 MATTOC EXPERT/COMP	141-39022-K023
REF	REBUILD KIT, MY24 MATTOC	141-39022-K021
REF	FENDER & HOSE-GUIDE KIT	141-36103-K001
REF	FENDER KIT	141-36103-K002
REF	HOSE GUIDE KIT	141-36103-K003

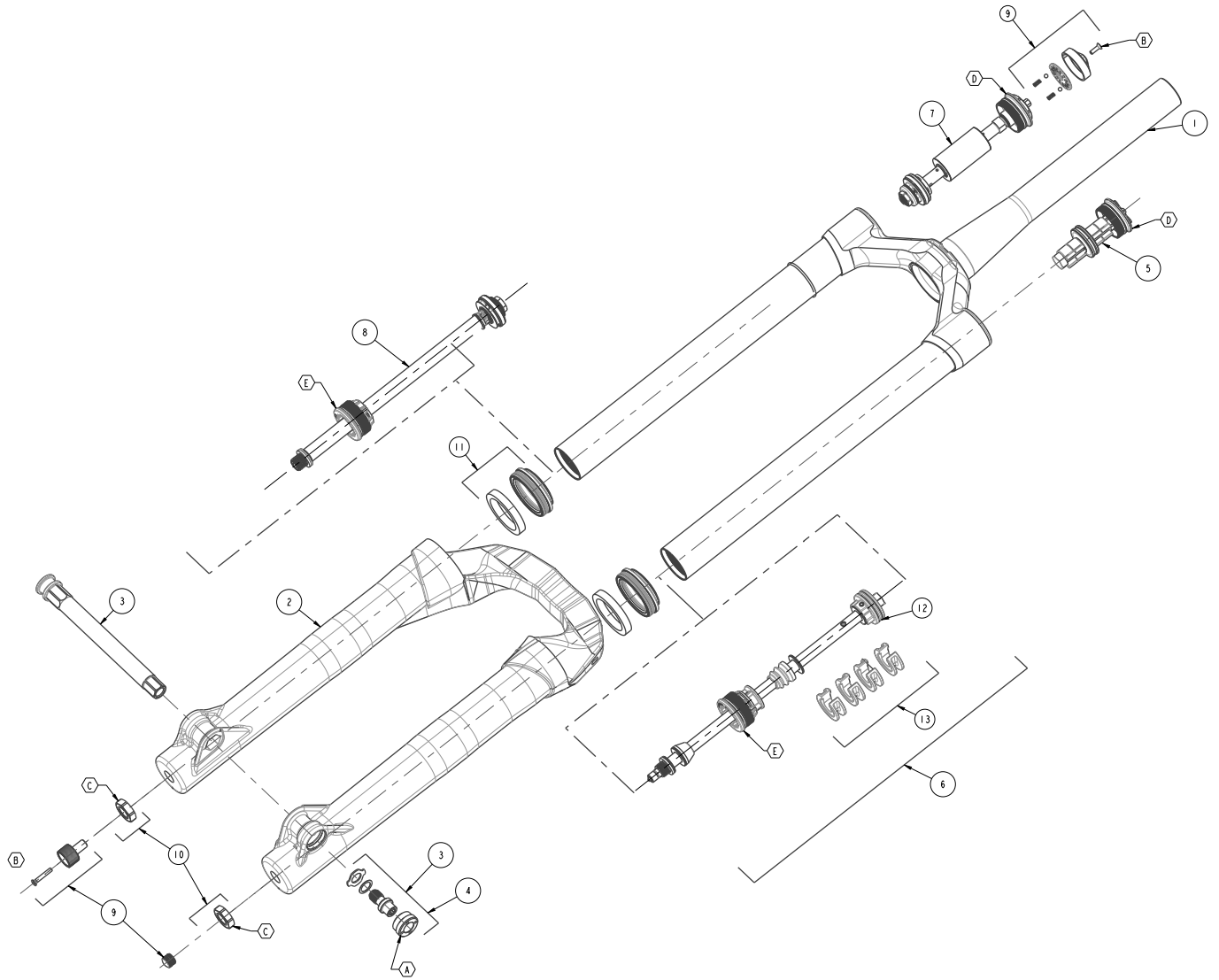
JUNIT 34 PRO EXPLODED VIEW & PARTS



JUNIT 34 PRO EXPLODED VIEW & PARTS

ITEM #	PART DESCRIPTION	KIT NUMBER
1	CROWN-STEER ASSY, 34MM, 41OS, M31X0.8, MY24 PL-CLR	141-39022-K038
2	CASTING, 34MM, 26" MY24 JUNIT/CIRCUS PRO GLOSS BLACK	141-39022-K024
	CASTING, 34MM, 24" MY24 JUNIT GLOSS BLACK	141-39022-K030
3	AXLE, HEXLOCK SL2, 110 ALUMINUM (WITH HARDWARE)	141-33147-K005
4	AXLE HARDWARE, HEXLOCK SL2/SLC	141-33147-K006
5	IRT ASSY M31X0.8, 29.85 MY24 MATTOC	141-39022-K010
6	DORADO AIR SPRING ASSY, M32X1 31.0 (W/ TRAVEL SPACERS)	141-39022-K031
7	COMPRESSION DAMPER ASSY, VTT 6P, M31X0.8, 29.85, YTH	141-39022-K043
8	REBOUND DAMPER ASSY, CARTRIDGE M32X1 JUNIT 34 PRO	141-39022-K033
9	KNOBS, VTT 6P, REBOUND, AIR CAP	141-36713-K033
10	REBOUND KNOB / AIR VALVE CAP	141-32155-K016
11	FOOT-NUT, M12X1.5 SHAFT (2PC)	141-39022-K017
12	SEALS, 34MM, SKF W/ FOAM RINGS	141-39022-K020
13	AIR PISTON, SEAL ONLY QUAD-RING (31.00 LEG)	141-32155-K012
14	TRAVEL ADJUST SPACER KIT	141-30159-K012
REF	DECAL KIT, MY24 JUNIT PRO/EXP 26"	141-39022-K036
REF	DECAL KIT, MY24 JUNIT PRO/EXP 24"	141-39022-K037
REF	REBUILD KIT, MY24 MATTOC/ JUNIT34/ CIRCUS PRO	141-39022-K021
REF	FENDER & HOSE-GUIDE KIT	141-36103-K001
REF	FENDER KIT	141-36103-K002
REF	HOSE GUIDE KIT	141-36103-K003

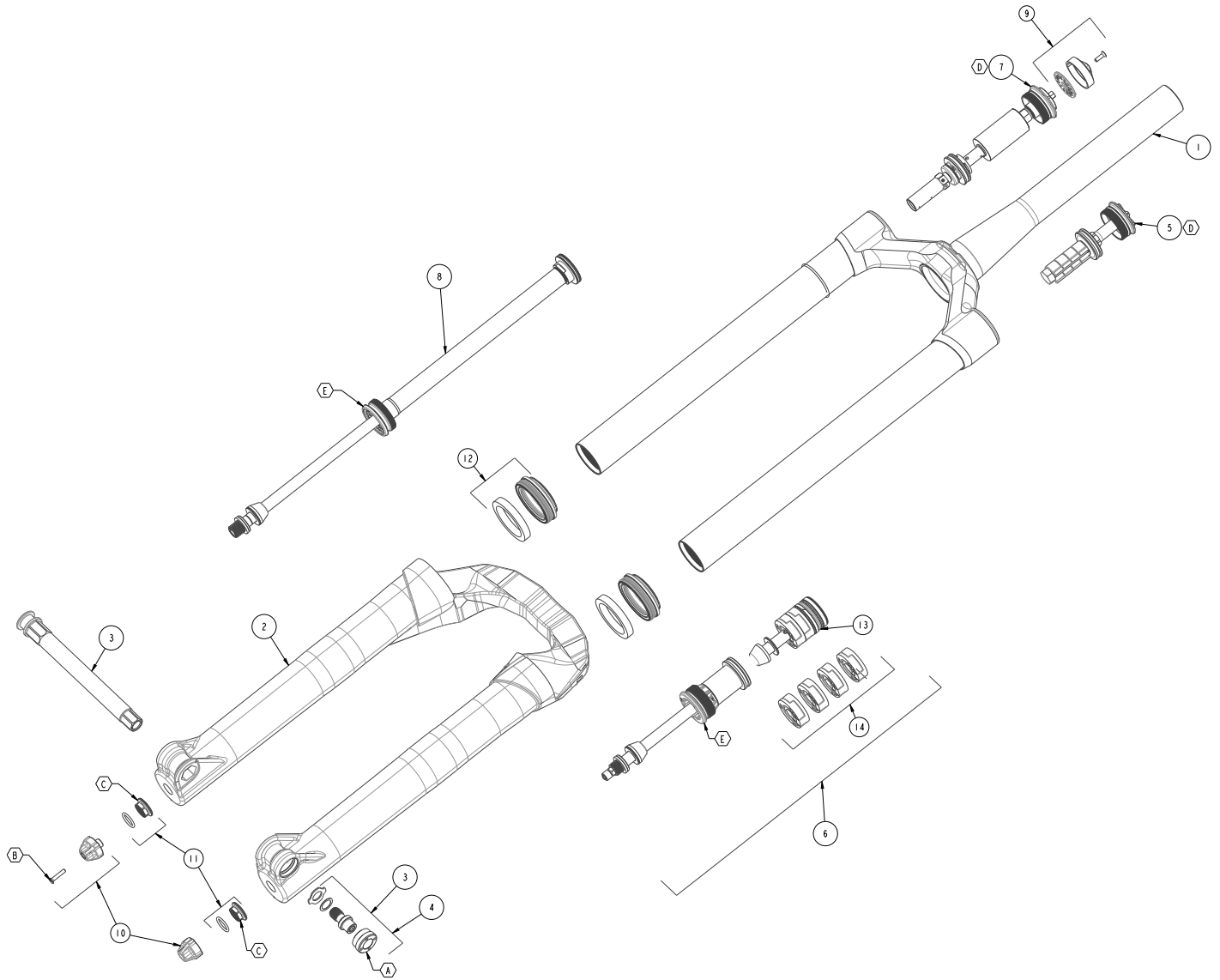
JUNIT 34 EXPERT EXPLODED VIEW & PARTS



JUNIT 34 EXPERT EXPLODED VIEW & PARTS

ITEM #	PART DESCRIPTION	KIT NUMBER
1	CROWN-STEER ASSY, 410S, M31X0.8, MY24 MATTOC GLOSS BLK	141-39022-K003
2	CASTING, 26" MY24 MATTOC GLOSS BLACK	141-39022-K024
	CASTING, 24" MY24 MATTOC GLOSS BLACK	141-39022-K030
3	AXLE, HEXLOCK SL1, 110 ALUMINUM (WITH HARDWARE)	141-33147-K002
4	AXLE HARDWARE, HEXLOCK SL2/SLC	141-33147-K006
5	IVA ASSY M31X0.8, 29.85 MY24 MATTOC	141-39022-K032
6	DORADO AIR SPRING ASSY (INCLUDES TRAVEL SPACERS)	141-39022-K031
7	COMPRESSION DAMPER ASSY, ABS+, YTH SFT, M31X0.8, 29.85	141-39022-K034
8	REBOUND DAMPER ASSY, IN-LEG 31.0 M32X1, JUNIT EXP	141-39022-K035
9	KNOBS, ABS+, REBOUND, AIR VALVE CAP	141-36683-K015
10	FOOT-NUT, M12X1.5 SHAFT (2PC)	141-39022-K017
11	SEALS, 34MM, TSS W/ FOAM RINGS	141-34000
12	AIR PISTON, SEAL ONLY QUAD-RING (31.00 LEG)	141-32155-K012
13	TRAVEL ADJUST SPACER KIT	141-30159-K012
REF	DECAL KIT, MY24 JUNIT PRO/EXP 26"	141-39022-K036
REF	DECAL KIT, MY24 JUNIT PRO/EXP 24"	141-39022-K037
REF	REBUILD KIT, MY24 MATTOC/ JUNIT34/ CIRCUS PRO	141-39022-K021
REF	FENDER & HOSE-GUIDE KIT	141-36103-K001
REF	FENDER KIT	141-36103-K002
REF	HOSE GUIDE KIT	141-36103-K003

CIRCUS 34 PRO EXPLODED VIEW & PARTS



CIRCUS 34 PRO EXPLODED VIEW & PARTS

ITEM #	PART DESCRIPTION	KIT NUMBER
1	CROWN-STEER ASSY, 410S, M31X0.8, MY24 MATTOC PL-CLR	141-39022-K038
2	CASTING, 26" MY24 MATTOC GLOSS BLACK	141-39022-K024
3	AXLE, HEXLOCK SL2, 110 ALUMINUM (WITH HARDWARE)	141-33147-K005
4	AXLE HARDWARE, HEXLOCK SL2/SLC	141-33147-K006
5	IVA ASSY M31X0.8, 29.85 CIRCUS PRO	141-35384-K006
6	AIR SPRING ASSY (INCLUDES TRAVEL SPACERS)	141-39022-K025
7	DAMPER, ABS+ HBO, W/ KNOBS M31X0.8, 29.85	141-39022-K026
8	DAMPER, RB CART HBO M32X1 W/ KNOBS MY24 CIRCUS PRO	141-39022-K027
9	KNOBS, ABS+	141-27177-K007
10	REBOUND KNOB / AIR VALVE CAP	141-32155-K016
11	FOOT-NUT, M12X1.5 SHAFT (2PC)	141-39022-K017
12	SEALS, 34MM, SKF W/ FOAM RINGS	141-39022-K020
13	AIR PISTON, SEAL ONLY QUAD-RING (31.00 LEG)	141-32155-K012
14	TRAVEL ADJUST SPACER KIT	141-36713-K032
REF	DECAL KIT, MY24 CIRCUS PRO	141-39022-K029
REF	REBUILD KIT, MY24 MATTOC	141-39022-K021
REF	FENDER & HOSE-GUIDE KIT	141-36103-K001
REF	FENDER KIT	141-36103-K002
REF	HOSE GUIDE KIT	141-36103-K003
REF	KIT, 15MM BOOST HUB CONVERSION	141-39022-K028

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