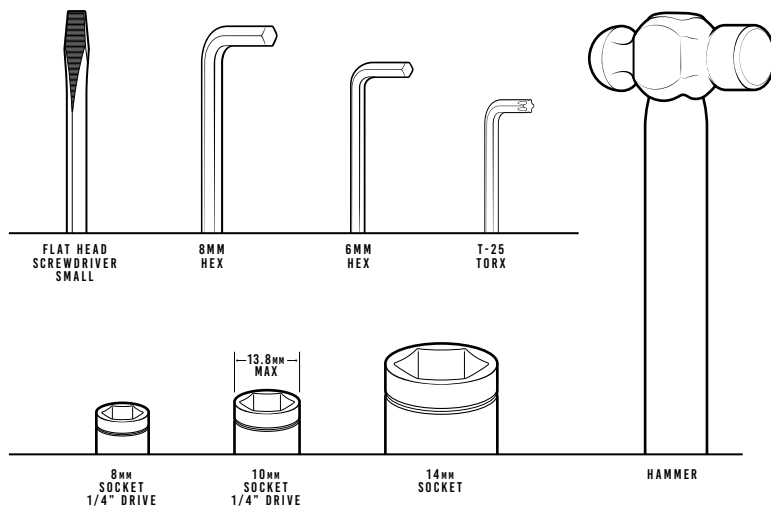
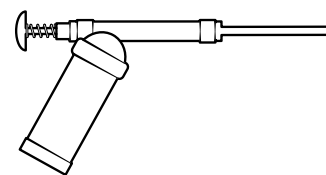




## TOOLS NEEDED



## SUPPLIES NEEDED



GREASE



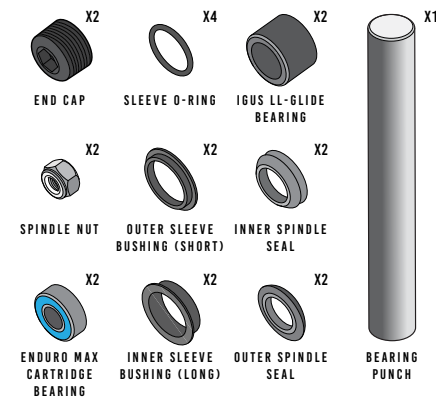
242 THREADLOCK



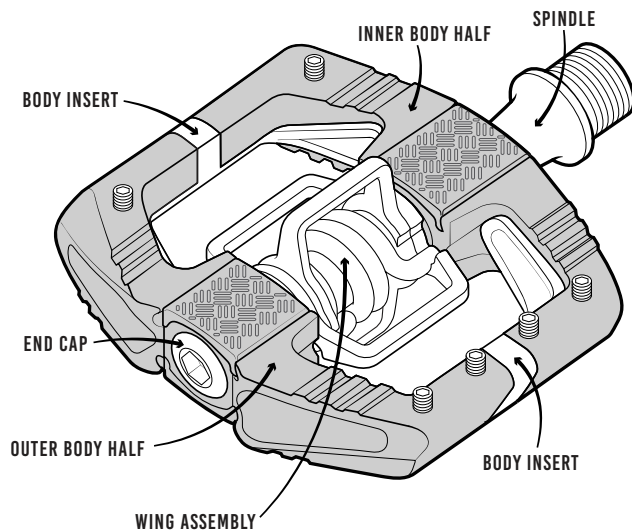
SHOP RAG

## REFRESH KIT (PART #16051)

KIT INCLUDES:



## PARTS EXPLAINED



## BEFORE YOU START

- BRIEFLY REVIEW THE STEPS OF THIS MANUAL TO GET AN IDEA OF THE PROCESS AND DECIDE IF THIS IS SOMETHING YOU ARE CONFIDENT HANDLING. IF NOT, CONTACT YOUR LOCAL BIKE SHOP FOR ASSISTANCE.

- FAMILIARIZE YOURSELF WITH THE GENERAL TERMS OUTLINED IN "PARTS EXPLAINED". A DETAILED VERSION OF THIS CAN BE FOUND ON OUR SUPPORT PAGES.

[Crankbrothers.com / Support / Support Documents / Pedals / Mallet Technical Documents / Parts Explained](https://www.crankbrothers.com/support/support-documents/pedals/mallet-technical-documents/parts-explained)

- GATHER ALL REQUIRED TOOLS AND SUPPLIES.

- REMOVE THE PEDALS FROM THE BIKE(RECOMMENDED). IT'S IMPORTANT TO CLEAN AND REGREASE THE SPINDLE THREADS CONSISTENTLY TO PREVENT SPINDLES FROM SEIZING IN THE CRANK ARMS. REFER TO THE PEDAL REMOVAL MANUAL IF YOU ARE NOT FAMILIAR WITH THIS PROCESS.

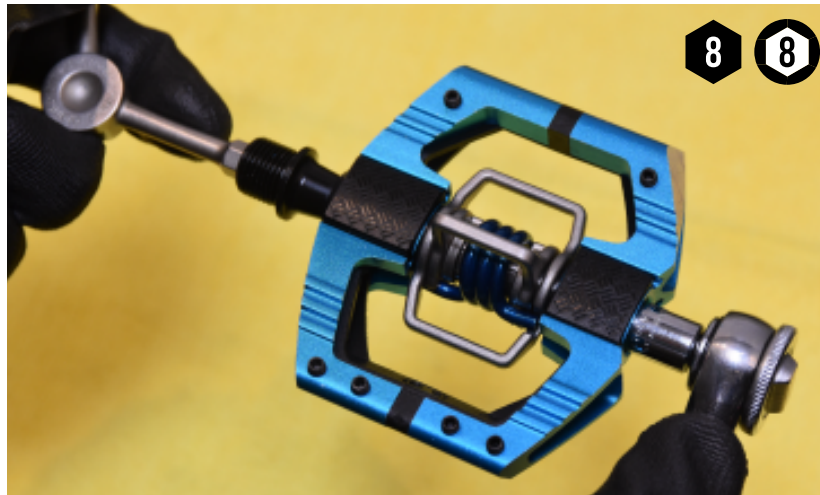
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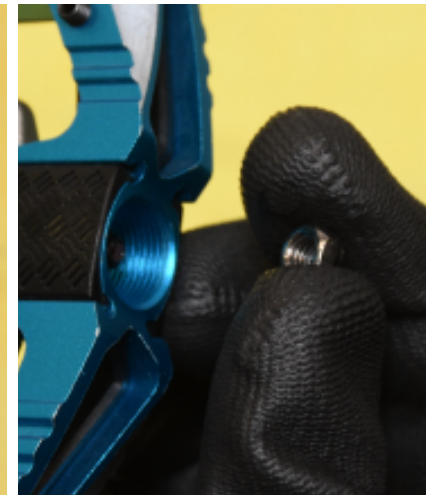
DISASSEMBLE PEDAL



1. REMOVE THE END CAP FROM THE PEDAL WITH A 6MM HEX WRENCH, DISCARD THE END CAP ONCE REMOVED.



2. REMOVE AXLE NUT USING AN 8MM SOCKET AND 8MM HEX WRENCH INSERTED INTO THE SPINDLE END. DISCARD THE SPINDLE NUT ONCE REMOVED.



DISASSEMBLE PEDAL



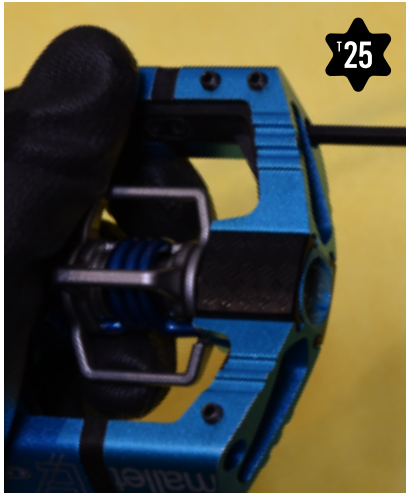
3. REMOVE THE SPINDLE FROM THE PEDAL BODY.



4. REMOVE AND DISCARD BOTH SPINDLE SEALS AND CLEAN THE OLD GREASE AND DIRT OFF OF THE SPINDLE.



DISASSEMBLE PEDAL



5. REMOVE THE TWO BODY SCREWS WITH THE T-25 TORX WRENCH AND SET ASIDE.



6. PULL THE TWO BODY HALVES APART.

DISASSEMBLE PEDAL



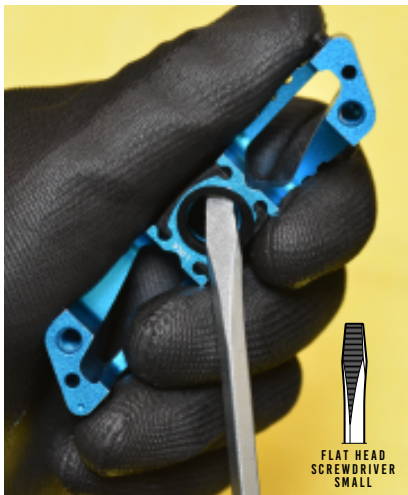
7. REMOVE THE WING/SPRING/SLEEVE ASSEMBLY AND SET ASIDE.



8. PUSH OUT THE CARTRIDGE BEARING USING THE LONG HANDLE 6MM HEX WRENCH.



DISASSEMBLE PEDAL



9. REMOVE AND DISCARD THE SLEEVE BUSHINGS AND O-RINGS FROM BOTH PEDAL BODY HALVES.



10. USING THE BEARING/BUSHING PUSH ROD REMOVE THE BUSHING OR NEEDLE BEARING FROM THE INSIDE PEDAL BODY. PLACE THE 14MM SOCKET UNDER THE INNER BODY HALF TO ALLOW THE BEARING TO MOVE OUT OF THE PEDAL BODY.



DISASSEMBLE PEDAL



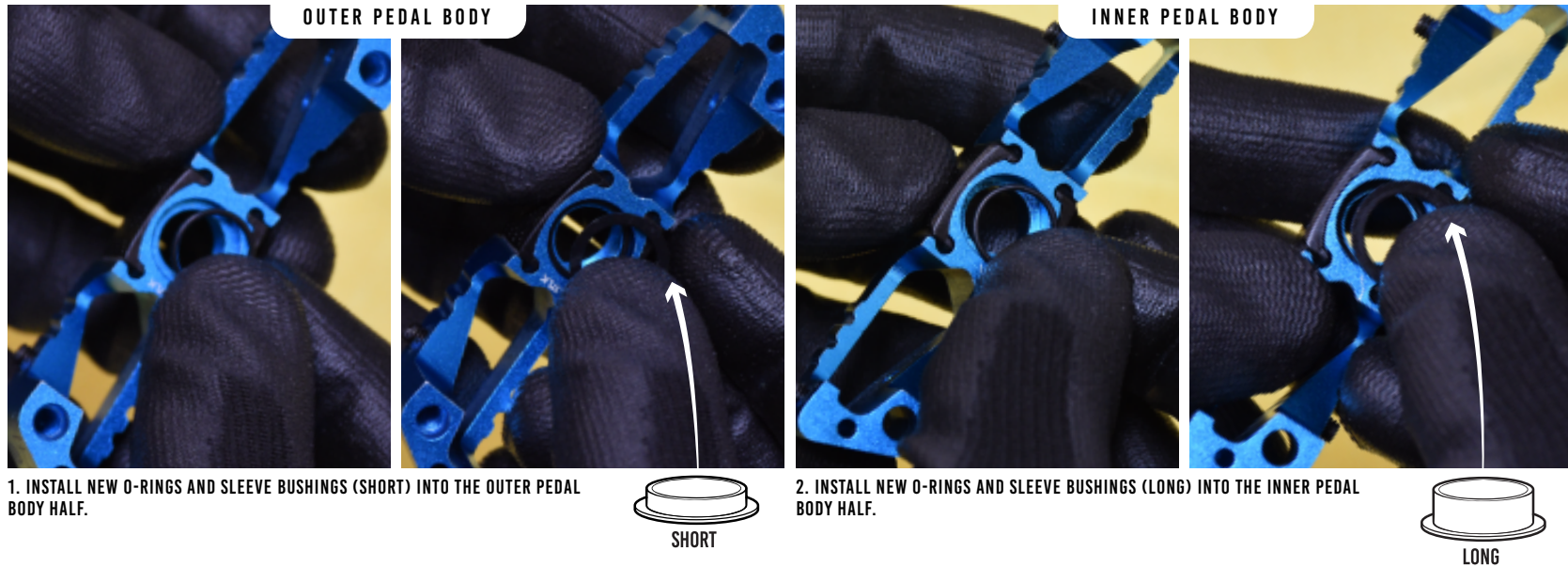
11. WIPE ALL GREASE OUT OF THE INTERIOR OF THE PEDAL BODY USING A SHOP RAG OR PAPER TOWEL.



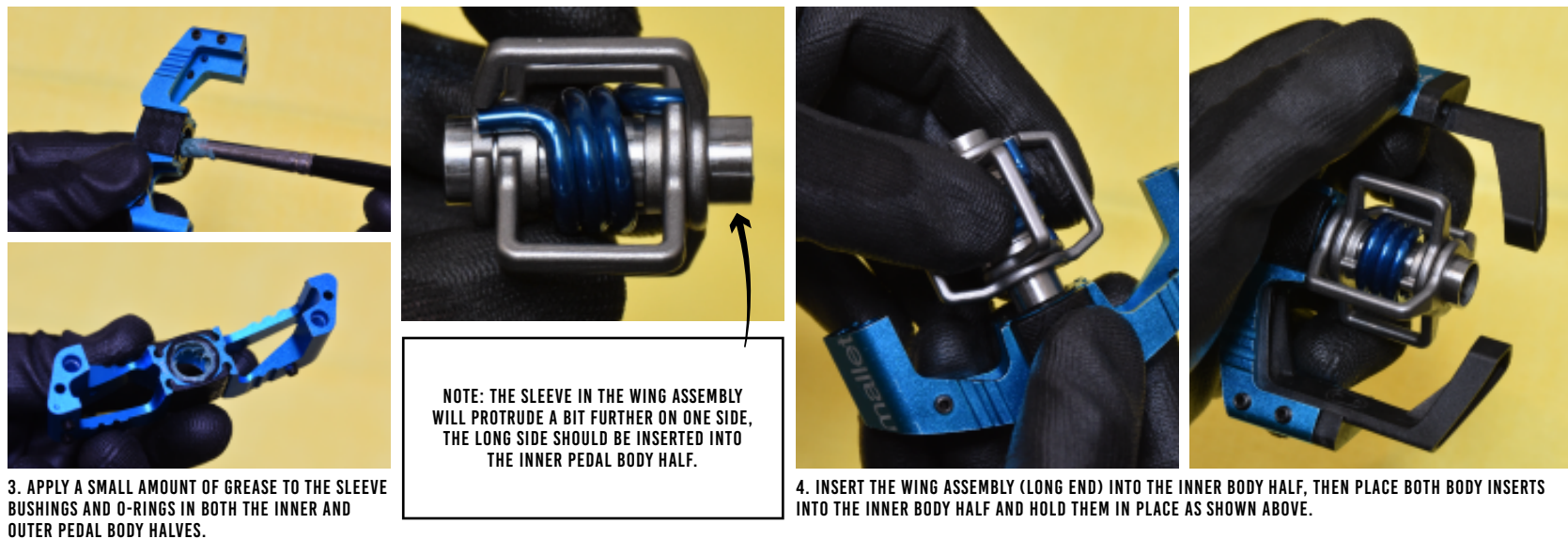
12. CLEAN THE WING ASSEMBLY AND BODY INSERTS USING A SHOP RAG OR PAPER TOWEL.



REASSEMBLE PEDAL



REASSEMBLE PEDAL





## REASSEMBLE PEDAL



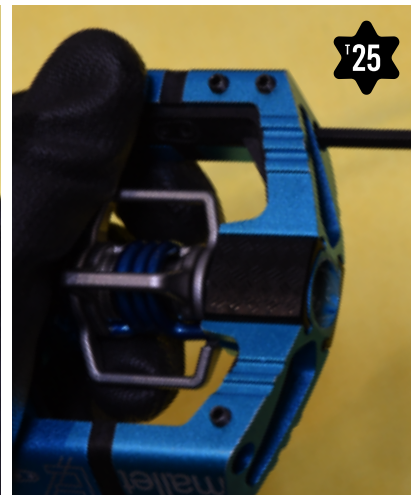
5. SLIDE THE OUTER BODY ONTO THE BODY INSERTS, THEN FIT THE SHORT END OF THE WING ASSEMBLY IN THE OUTER BODY.



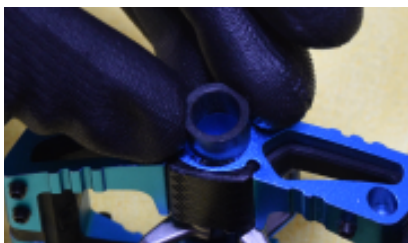
6. LIGHTLY COAT THE THREADS OF THE BODY BOLTS WITH 242 THREAD LOCKER.



7. INSTALL BOTH BODY BOLTS BACK INTO PEDAL BODIES AND TIGHTEN TO 6NM USING A T-25 TORX.



## REASSEMBLE PEDAL



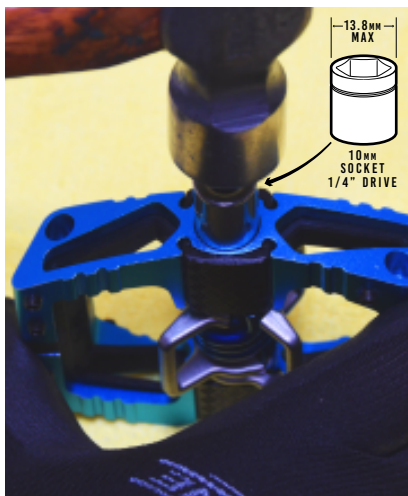
PROFILE VIEW

SHARP EDGE

BEVELED EDGE

## IGUS LL-GLIDE BEARING

8. POSITION A NEW IGUS LL-GLIDE BEARING AS SHOWN ABOVE WITH THE BEVELED EDGE FACING TOWARD THE INNER PEDAL BODY HALF. USING A HAMMER AND A 10MM - 1/4" DRIVE SOCKET WITH AN OUTER DIAMETER NO LARGER THAN 13.8mm, PRESS THE IGUS LL-GLIDE BEARING INTO THE INNER PEDAL BODY TILL IT'S FULLY SEATED. HAMMER LIGHTLY AND DO NOT FORCE INTO THE PEDAL BODY. IF DIFFICULT TO INSTALL, CHECK BEARING ALIGNMENT.



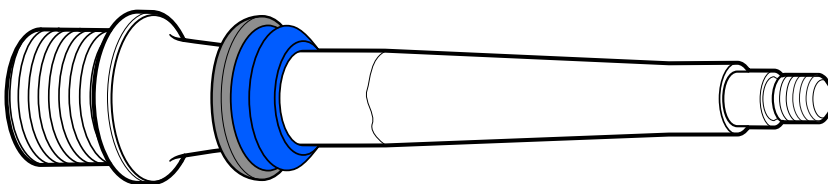
9. GENEROUSLY GREASE INSIDE OF THE PEDAL BODY AND BEARING SURFACE.



8. INSTALL CARTRIDGE BEARING INTO OUTER BODY.



## REASSEMBLE PEDAL

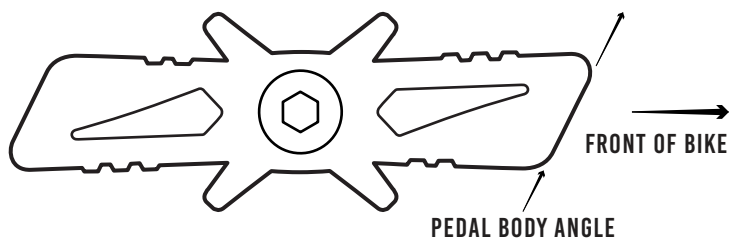


11. INSTALL THE OUTER SPINDLE SEAL FIRST, ROUNDED EDGE FACING AWAY FROM SMALL END OF THE SPINDLE. INSTALL THE INNER SEAL (DOUBLE-LIP SEAL) WITH THE POINTED END FACING TOWARD THE LARGE END OF THE SPINDLE.

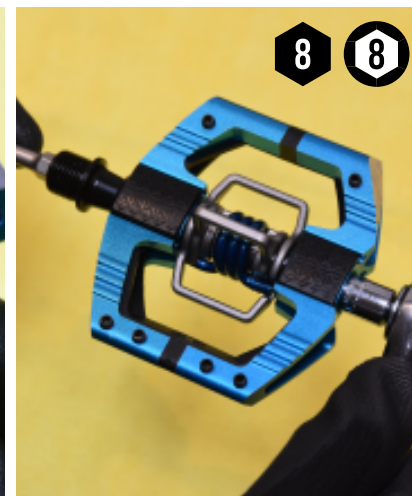


12. GREASE THE SPINDLE. (DO NOT GREASE THE THREADS AT THE SPINDLE END)

## REASSEMBLE PEDAL



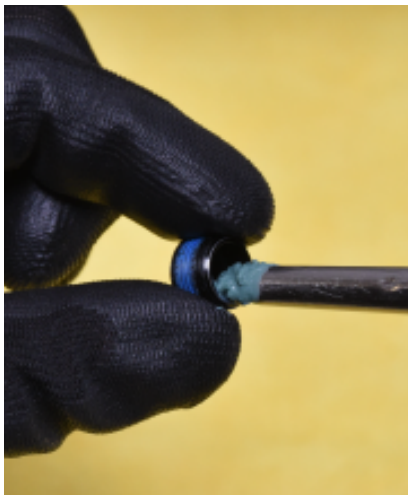
13. INSERT THE SPINDLE INTO PEDAL AND THROUGH CARTRIDGE BEARING. NOTE: THE PEDAL BODIES ON THE MALLET E ARE LEFT/RIGHT SPECIFIC. PAY ATTENTION TO THE ANGLES ON THE PEDAL BODY, THEY SHOULD RAMP UP AND TOWARD THE FRONT OF THE BIKE.



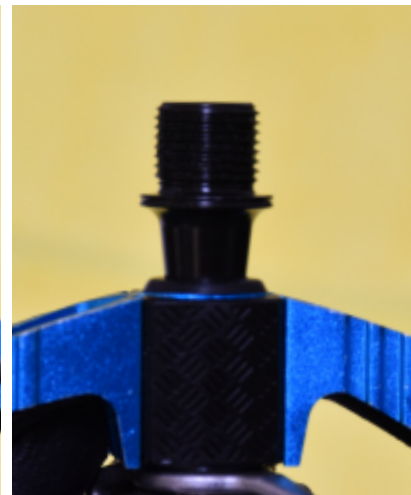
14. INSTALL NEW AXLE NUT AND TIGHTEN TO 4NM. WARNING: THE NUT MUST BE TIGHTENED CORRECTLY OR THE BODY ASSEMBLY COULD FALL OFF DURING RIDING AND CAUSE INJURY.



## REASSEMBLE PEDAL



15. ADD GREASE TO INSIDE OF THE END CAP THEN INSTALL THE HEX END CAP AND TIGHTEN TO 3NM WITH A 6MM HEX.

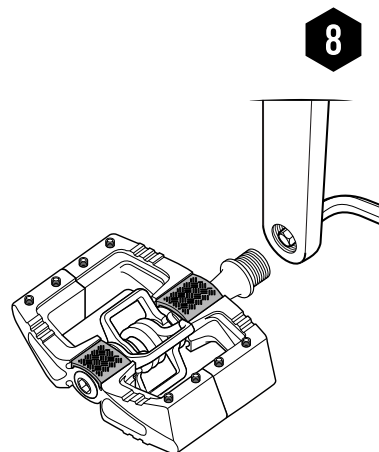


16. CHECK THE OUTER SEAL AND CONFIRM IT IS FLUSH AGAINST THE PEDAL BODY. IT MAY BE NECESSARY TO PRESS THE OUTER SEAL AGAINST THE PEDAL BODY.

## INSTALL PEDALS



17. ADD A THIN COAT OF GREASE TO THE SPINDLE THREADS.



18. INSTALL YOUR PEDALS USING AN 8MM HEX WRENCH, REFER TO THE PEDAL REMOVAL MANUAL IF YOU ARE NOT FAMILIAR WITH THIS PROCESS.

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