

INSTALLATION & USER'S GUIDE

RadiusX Clutch for KTM 250F and Husaberg FE 250

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OVERVIEW

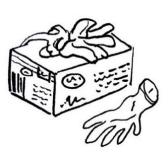
This kit replaces many of the OE (Original Equipment) or "stock" clutch parts. These parts are designed specifically for your motorcycle to ensure optimal performance. The following is a summary of what is replaced:

- This kit will replace all the OE friction disks and drive plates with a Rekluse thin friction EXP clutch pack.
- The OE pressure plate springs are replaced with high quality Rekluse springs.
- The OE slave cylinder is replace with a Rekluse slave cylinder.

INSTALLATION TIPS

- Read the separate included Safety Information document before operating the vehicle with the product installed.
- Read this entire document before performing any steps.





- If you install this product for a customer or another person, instruct them to read the **Safety Information** document and the **Installation and User Guide** before operating the bike with the product.
- Protect eyes and skin wear safety glasses and work gloves.
- Lay the motorcycle on its left side when replacing the clutch. This makes the clutch work easier and eliminates the need to drain the oil. Catch any fuel that may drain from the bike.
- Use the torque values listed in the instructions. Otherwise, use the torque specifications found in your OE service manual.

 Oil: For optimal clutch performance Rekluse recommends using fresh, clean oil that meets JASO-MA oil rating requirements. Rekluse offers Factory Formulated Oil[™] developed specifically for Rekluse products. Rekluse Factory Formulated Oil is a perfect complement to any OEM or aftermarket wet clutch. Visit www.rekluse.com to learn more.

TOOLS

0	0		
10 mm socket	8 mm socket	Metric Wrench	Torque Wrench
		• 4 mm	
Pick	Fluid Catch Container	4 mm Hex key	

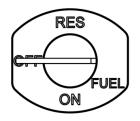
INCLUDED PARTS

Item	Description	Qty.		
13	EXP base	2		
85	EXP wedge assembly	6		
60	EXP adjustment springs – Colors will vary.	12		
51	Quarter turn pin (2 spare not shown)	8		
63	Steel drive plates040"(1 mm)	2		
68	Steel drive plates060"(1.5 mm)	5		
69	TorqDrive [®] friction disks	7		
70	Basket sleeves	12		
60.1	Pressure plate springs	5		
86	Adjustable slave cylinder assembly	1		
Not shown	Orange Free Play Gain rubber band	1		

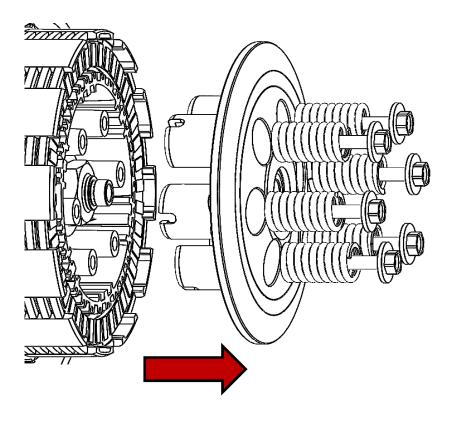
Visit <u>www.rekluse.com/support</u> for a full parts fiche illustration and part numbers.

DISASSEMBLE CLUTCH

1. If your bike is carbureted, turn the fuel petcock to "OFF."

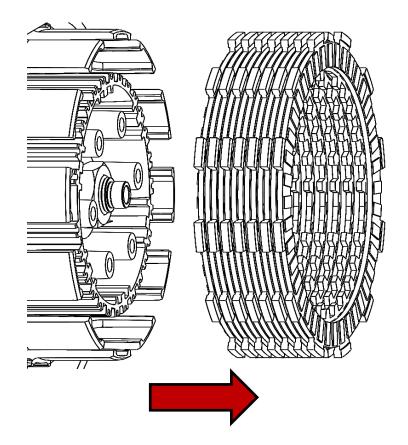


- 2. Shift the transmission into 5th gear.
- 3. Lay the bike on its left side. Catch any fuel that might drain in a suitable container.
- Using an 8 mm socket, remove the OE clutch cover. Pay close attention to the length and location of the OE screws so they can each be returned to the same location.
- 5. Using a socket, remove the pressure plate screws and springs, then remove the pressure plate.



Note: Your OE parts may look different than pictured depending on the bike.

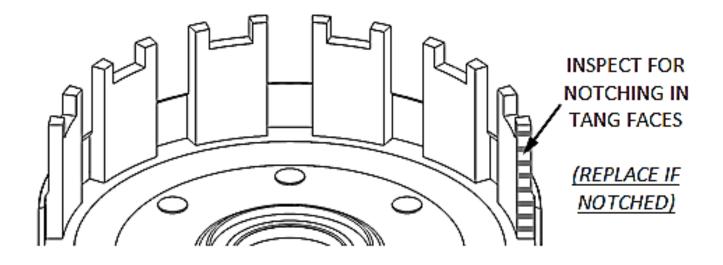
6. Remove the OE clutch pack. Use a pick if necessary to help remove all of the plates.



7. Inspect the clutch basket for spring damper play or notching. Do not install sleeves or use product with a notched basket. Notched basket tang faces or worn dampers can cause the sleeves to break. Do not use baskets that have been filed, machined, or modified on the tangs. Replace basket if necessary.

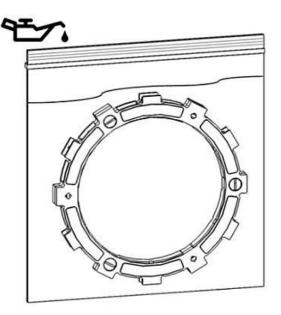
AWARNING

Failure to inspect the basket and replace if necessary could result in death, serious injury, and/or property damage.

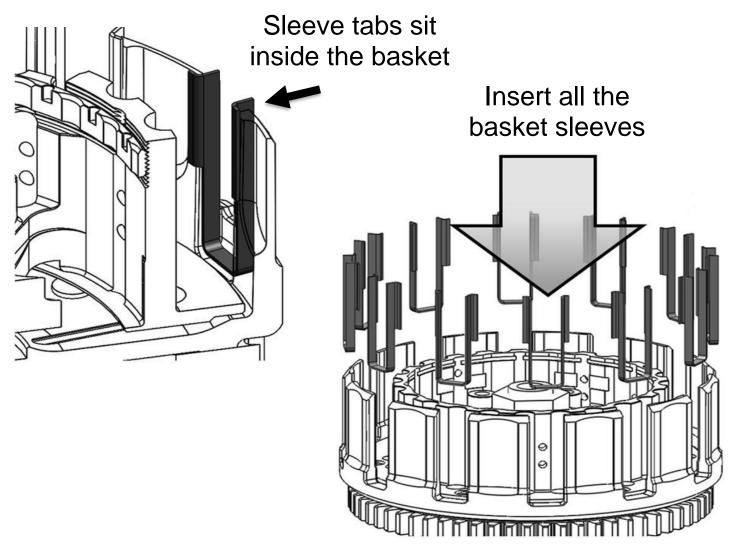


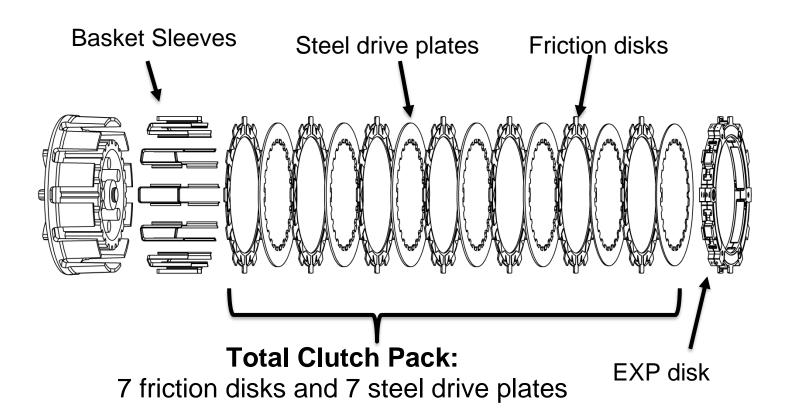
INSTALL THE CLUTCH PACK

 Soak the EXP disk and friction disks in new engine oil for 5 minutes. Make sure the EXP and friction disks are coated in oil on both sides.

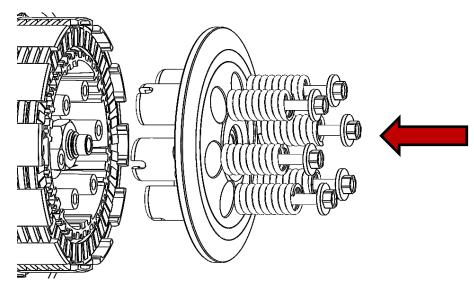


2. Install all the Rekluse basket sleeves into the basket slots. Make sure the bottom of the sleeve is facing down, and the sleeve tabs sit against the inside of the basket. See pictures for reference.





- 3. Install a Rekluse friction disk into the clutch, and then install a Rekluse steel drive plate. Some friction disks are marked with a small colored dot. This mark is used for processing and can be ignored.
- 4. Continue alternating the steel drive plates with the friction disks for the entire Rekluse clutch pack.
- 5. Install the EXP disk on top of the last steel drive plate.
- 6. Reinstall the pressure plate, then install the Rekluse pressure plate springs and reinstall the pressure plate bolts.



 Using a torque wrench, tighten the pressure plate bolts to 7.4 lb-ft (10 N-m).

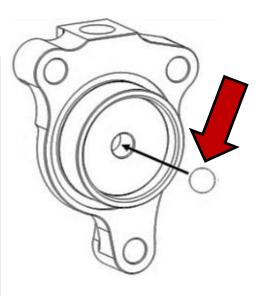
INSTALL THE CLUTCH COVER

- 1. Install the OE clutch cover and cover bolts, the stock gasket will be reused.
- 2. Torque the cover bolts in a star pattern to **4.5 lb-ft (6 N-m)** per OE specifications.

SLAVE CYLINDER INSTALLATION

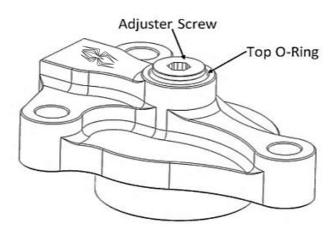
Installing the new Rekluse slave cylinder takes several steps. Please read the entire section before beginning the process to ensure you have the right equipment and clutch fluid needed for the replacement. Rekluse recommends wearing gloves and safety glasses for the install.

During the bleed and assembly, note that there is a small ball bearing installed in the slave piston with a small amount of grease. When installing the Rekluse slave cylinder, make sure the ball is in place and has not come loose.

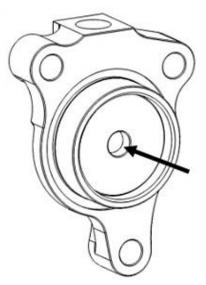


Step 1: Bleed the new slave cylinder

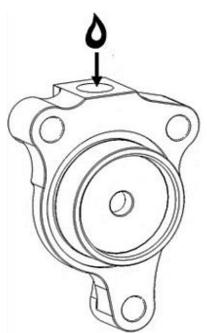
This step prepares the new slave cylinder for installation. Bleed the cylinder on a workbench or an area away from the bike. 1.Using a 4 mm hex key, turn the adjuster screw **counterclockwise** so that the top O-ring is visible under the adjuster screw.



2. Use your thumbs to compress the piston until it bottoms out, then release it.



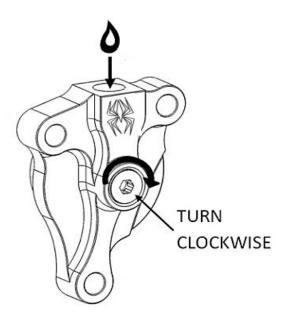
3. Pour the manufacturer recommended clutch fluid into the slave cylinder port.



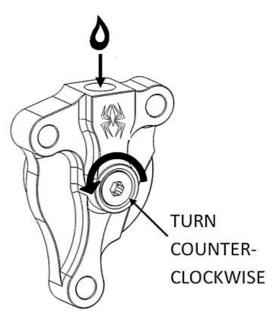


Be sure to use the correct clutch fluid. Check the cap of the clutch master cylinder to determine which clutch fluid to use. Failure to use the correct fluid will result in seal damage and/or failure.

4. Use a 4 mm hex key to turn the adjuster screw **clockwise** until it bottoms out and the O-ring in no longer visible. Keep the fluid topped off as you go.



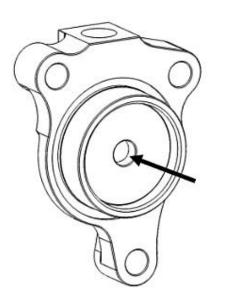
5.Use the wrench to turn the adjuster screwcounterclockwise back to the initial position, with the topO-ring visible. Keep the fluid topped off as you go.



ACAUTION

When compressing the piston, fluid can shoot out from the slave cylinder port. Be sure to wear eye protection.

6.Use your thumbs to compress the piston again until it bottoms out while looking for air bubbles.

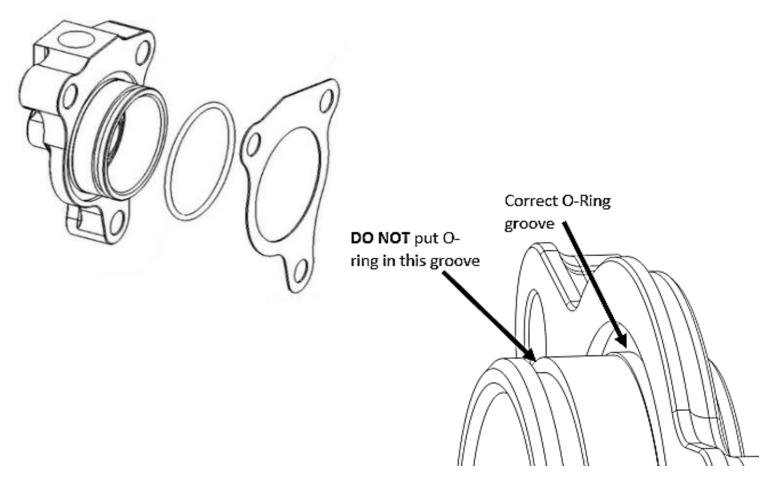


- 7. Repeat steps 3-6 until there are no air bubbles coming out in the fluid when the piston is compressed.
- 8. When the bleeding is complete, turn the adjuster screw counterclockwise so that the top O-ring is visible.
- 9. Compress the piston until it bottoms out, and top off with fluid.
- Check that the ball bearing is still in place. Stand the Rekluse slave cylinder in an upright position (so the fluid does not spill) until it is needed in the next step.

Note: Some models have a piston diaphragm seal. DO NOT reuse them if OE equipped. The Rekluse slave cylinder does not require a diaphragm seal.



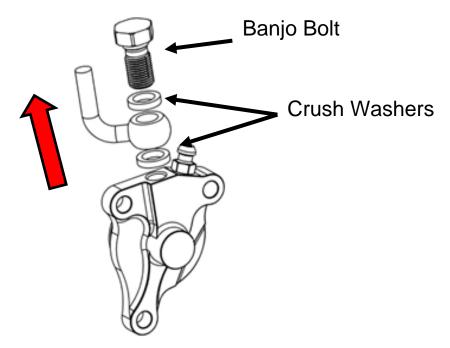
Note: The Rekluse slave cylinder comes preassembled in the kit. If the parts become separated, assemble them in the following order: Rekluse slave cylinder, O-ring, then the supplied paper gasket.



Step 2: Replace OE slave cylinder

In this step, the OE slave cylinder is replaced with the Rekluse slave cylinder. Work quickly when performing the following steps. This method retains the fluid inside the line, and makes the final bleeding step easier.

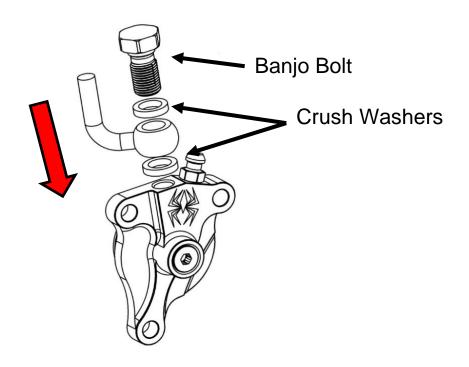
- 1. Stand the bike up and lean it on its kickstand, or place it on a suitable bike stand.
- 2.On the left side of the bike, while leaving the OE slave cylinder intact on the engine, use a wrench to remove the banjo bolt from the OE slave cylinder.



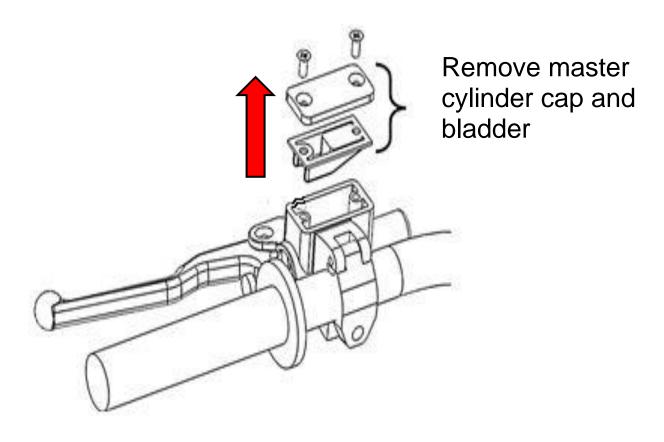
3. Remove the clutch fluid line and the two OE crush washers from the OE slave cylinder. Discard the used crush washers.

Note: A quick transfer of the fluid line will result in less bleeding in the following steps

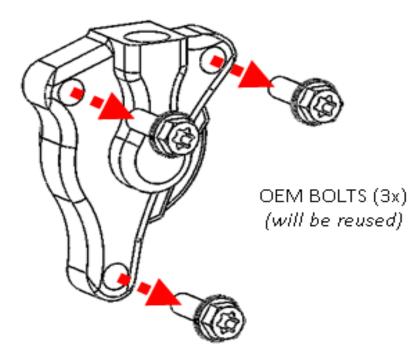
4. Attach the clutch fluid line to the Rekluse slave cylinder using the OE banjo bolt and the two new crush washers from Rekluse. Make sure the clutch fluid line is between the two crush washers.



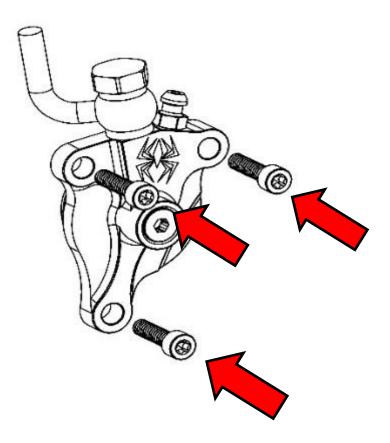
- 5. Tighten the banjo bolt with your hand until snug. (You will tighten it once installed on the bike.)
- 6. Remove the cap and bladder from the clutch master cylinder.



7. With the clutch fluid line attached to the Rekluse slave cylinder, remove the OE slave cylinder from the engine. Keep the OE bolts for reuse.



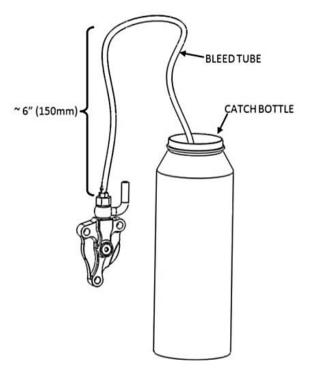
8. Mount the Rekluse slave cylinder to the engine using the OE bolts.



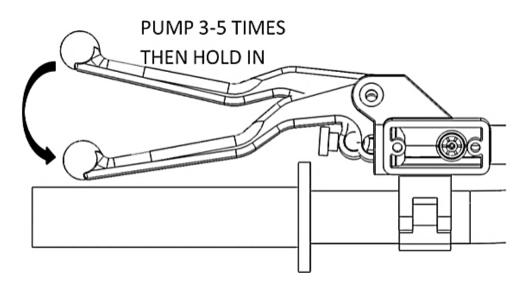
- 9. Tighten all the slave cylinder bolts to **7 lb-ft (10 N-m)** per OE specifications.
- 10. Torque the banjo bolt to **18 lb-ft (25 N-m)** per OE specifications.

BLEED THE CLUTCH LINE

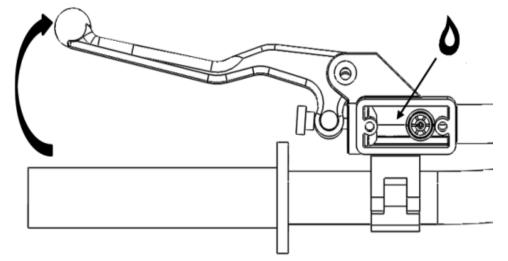
1. Attach one end of the supplied bleed tube to the banjo bolt port, then loop the opposite end into a suitable catch bottle.



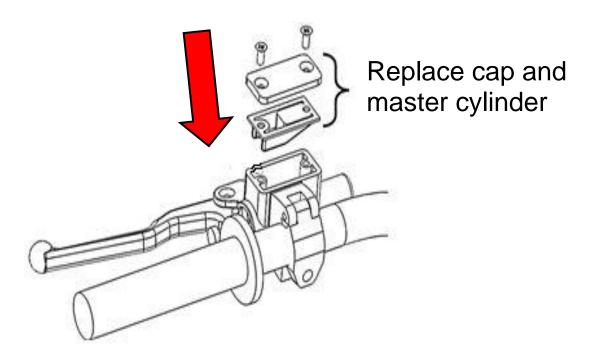
- 2. Top off the master cylinder with the recommended clutch fluid until it is 75% full.
- 3. Pump the clutch lever 3 to 5 times, then hold it against the handlebar/grip.



- 4. While still holding the clutch lever in, use a wrench to open the bleed port. Air and fluid should flow from the bleed tube.
- 5.Before releasing the clutch lever, tighten the bleed port when the pressure is released from the bleed tube.
- 6. Slowly release the clutch lever and check the fluid level in the clutch master cylinder. Top off if necessary.



- 7. Repeat steps 3 6 until air no longer comes out of the bleed tube and the clutch feels normal.
- 8. Check that the clutch master cylinder is 75% full, then replace the cap and bladder.



9. Remove the bleed tube from the bleed bolt and remove the bottle.

10. Torque the bleed screw to **150 in-lb (17 Nm)** with a socket or the closed end of an 8 mm wrench.

Note: Be sure to use a socket or closed end wrench when torqueing the bleed screw. Using an open-ended wrench can strip the hex screw.

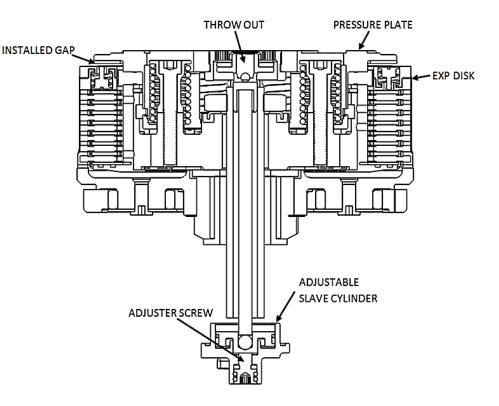
<u>SET THE INSTALLED GAP AND</u> <u>CHECK FREE PLAY GAIN</u>

It is very important that you understand how to set the installed gap in your new clutch, and be able to verify the installed gap by checking Free Play Gain.

Setup, break-in, and rechecking the installed gap is CRUCIAL. Failure to properly maintain your installed gap can result in premature wear or failure of your clutch.

The "installed gap" is the free space in the clutch pack when the EXP disk is disengaged (collapsed). This gap allows the clutch to spin freely until the engagement RPM is reached and the EXP disk expands to close the gap and apply pressure to the pressure plate, which in turn drives the motorcycle forward.

The installed gap is what allows the auto function of the product to perform properly. Use the following steps to set the installed gap and check the Free Play Gain.



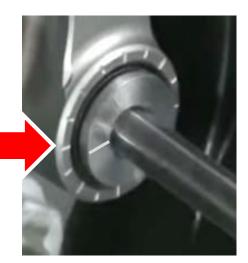
AWARNING

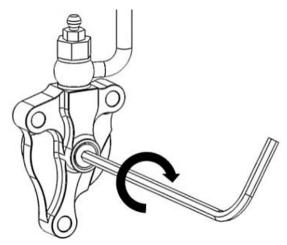
Failure to check and verify Free Play Gain can cause failure or damage to this product. Setting the correct installed gap is critical for clutch performance.

Setting the installed gap and checking Free Play Gain is a 4step process. It is important to follow each step to ensure that your new clutch functions as designed.

Step 1: Find the starting point

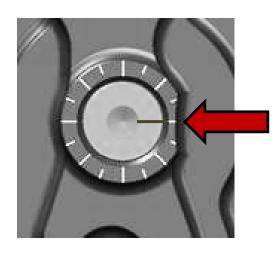
- a) With the bike standing up, locate the adjuster screw in the center of the adjustable slave cylinder.
- b) With the O-ring showing, use a 4 mm hex key to turn the adjuster screw clockwise until it stops under light pressure. This is your "starting point."





Note: The resistance you feel is where the throw-out begins to lift the pressure plate. Finding the right starting point may take a few tries, but you will feel a noticeable change in turning effort once you reach that point. Stop when you feel the pressure increase. The "starting point" will change as the clutch pack wears over time.

C) Once you have found the starting point, note the position of the hex key using the tick marks on the slave cylinder housing and the small etch mark located on the screw. You will begin here to adjust the installed gap. d) Use a 4 mm hex key to turn the adjuster screw clockwise 1 full turn + 2 tick marks from your starting point. This may NOT be your final setting, but it is a beginning adjustment for finding the correct setting.



Use the tick marks on the cylinder and the etch mark on the screw to remember the starting point for adjusting the gap.

e) Continue with Step 2 to check for Free Play Gain.

Do not ride your bike without the adjusting the installed gap. You will not be able to disengage the clutch until you set the installed gap.

Step 2: Learn how to check Free Play Gain

Feeling Free Play Gain with the beginning adjustment to the slave cylinder aids in learning to recognize Free Play Gain.

If you are familiar with Free Play Gain, check for Free Play Gain then skip to Step 3 - "Break-in the new clutch."

If Free Play Gain is new to you, follow the instructions below to help you learn this important step. You can also view the video entitled "How to Check Free Play Gain" on our website at <u>www.rekluse.com/support/videos</u>.

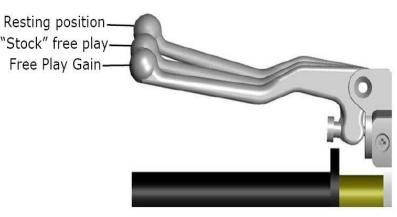
Free Play Gain is different from the "normal" free play (slack) you are used to with your stock clutch. With the Rekluse auto clutch, Free Play Gain is the result of the EXP disk expanding and lifting the pressure plate to engage the clutch.

Free Play Gain happens when the engine's RPM increases from idle to above approximately 5,000 RPM and the EXP closes the installed gap. The amount of Free Play Gain you feel in the lever corresponds to the amount the pressure plate has been lifted by the EXP disk expansion.

Checking Free Play Gain allows you to externally monitor the installed gap so you can know when to make an adjustment if the installed gap is too large or too small.

The correct installed gap is verified by observing and feeling the increased free play movement in the clutch lever. This extra movement is called "Free Play Gain."





If there is too much Free Play Gain, the installed gap is too small.

- The bike may drag and stall because it has difficulty disengaging the clutch.
- It may also be difficult to shift.
- Too much Free Play Gain will not hurt the clutch, but it will negatively affect clutch performance.

With too little or no Free Play Gain, the installed gap is too large. This means when the EXP is fully expanded it does not lift the pressure plate.

- The clutch may slip and make the bike seem like it is losing power.
- The bike may not move forward even though the engine RPM increases as if the clutch lever is slightly pulled.
- Too little Free Play Gain will cause the clutch system to burn up.

Optimal Free Play Gain yields 1/8" to ¹/₄" (3 mm-6 mm) of clutch lever movement, measured at the ball end of the lever. This measurement at the lever correlates to achieving the ideal installed gap.

Two Ways to Check for Free Play Gain

The following steps explain **2 ways** to check Free Play Gain. One way uses the rubber band Rekluse includes in the clutch kit, and one uses your hand. You can use either method to check for Free Play Gain.

Rekluse recommends that you begin with the rubber band method first to check for Free Play Gain and then learn the hand method. The rubber band will help you learn how to recognize Free Play Gain until you are comfortable with the hand method. Learning to check Free Play Gain by hand effectively and comfortably can make it easy to check Free Play Gain every time you ride.

The Rubber Band Method

Use the rubber band method for the initial set up. It can also be used before each ride until you feel comfortable checking the Free Play Gain using the hand method.

AWARNING

BEFORE YOU BEGIN, verify that the bike is in NEUTRAL before checking Free Play Gain. Failure to do so may result in the bike lurching forward, and loss of control and/or injury may result.

A Rekluse auto-clutch can make your motorcycle appear to be in neutral when in gear, even when the engine is running and clutch lever released.

Motorcycles equipped with a Rekluse auto-clutch can move suddenly and unexpectedly and cause riders to

lose control. To avoid death, serious injury, and/or property damage, always sit on the motorcycle to start it.

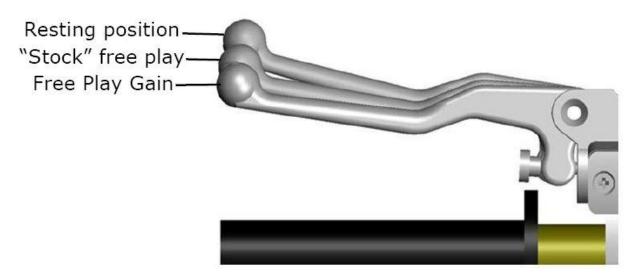
- a) Before you begin, place the bike in **NEUTRAL**, start the engine and let it warm up for 2-3 minutes to idle down and warm the engine oil.
- b) Stretch the included rubber band between your thumbs, then place the top end of the rubber band on the outer end of the left handlebar grip.
- c) While holding the top end of the rubber band against the handlebar, stretch the band downward, then loop it through itself.
- d) Pull the band through the loop, then attach it to the outside end of the clutch lever. This will take up the initial free play (slack) and put the lever in a position to detect the Free Play Gain.







e) While still in **NEUTRAL**, quickly rev the engine between 5,000-7,000 RPM (1/2 to ³/₄ throttle), then let it return to idle. Notice the movement in the clutch lever when the engine is revved. This is your Free Play Gain.



Note: It is very important the motor returns to idle before revving the engine again or Free Play Gain will not be correct.

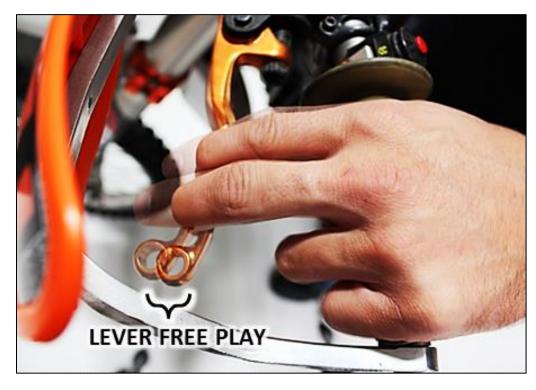
f) When the bike returns to idle, rest your hand across the clutch lever. Rev the engine again to 5,000-7,000 RPM so you can observe the movement while feeling for Free Play Gain with your hand.

The Hand Method

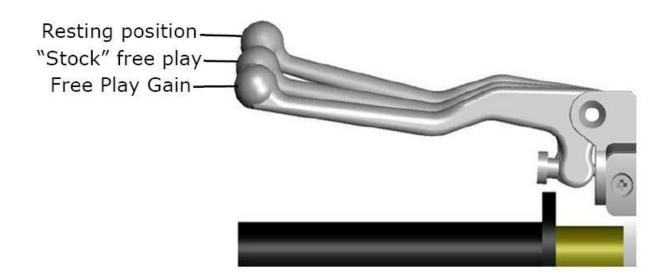
Use the hand method to check Free Play Gain before the start of every ride for optimum performance and longevity of your new clutch.

a) Before you begin, place the bike in **NEUTRAL**, start the engine and let it warm up for 2-3 minutes to idle down and warm up the engine oil.

b) With the bike at idle, apply enough pressure to the clutch lever to take up the initial free play (slack) in the clutch lever.



c) While still in NEUTRAL, continue to apply light pressure and quickly rev the engine between 5,000-7,000 RPM (1/2 to ³/₄ throttle), then let it return to idle. Notice the movement in the clutch lever when the engine is revved. This is your Free Play Gain.



- d) When the bike returns to idle, rev the engine between 5,000-7,000 RPM a second time to feel the Free Play Gain again.
- e) Continue with Step 3 to break-in the new clutch.

Step 3: Break-in the new clutch

Once you install your new clutch, it is important to break it in. A series of roll-on starts are used to break in the clutch. Follow these procedures for breaking in your clutch and any time new friction disks, EXP bases, Teflon pads, or wedges are installed.

AWARNING

Failure to follow the break-in procedure and oil screen inspection process could cause motor oil delivery failure, which can result in motor failure, serious injury, or death.

Break-in Procedure	Number of times
Rev Cycles:	
1. Place the bike in NEU	JTRAL. (102345)
2. With your hand off the lever, rev the engine being sure to let it ref between each rev cyc	10 times, 10 rev cycles
 With the engine still r in the clutch lever, the bike into 1st gear. Slo the clutch lever. The stay in place or have amount of forward creating 	en click the wly release bike should a slight
 With the bike idling in slowly apply throttle moving. 	

 5. Without using the clutch lever, accelerate moderately to approximately 5,000 RPM to fully lock up the clutch and come to a complete stop. Repeat 10 times. Note: If the engine wants to stall or the creep is excessive, the idle may be too high or the installed gap may be too small. Make necessary adjustments before proceeding. 	1 R 2 3 4 5 10 roll-on starts	
 Without using the clutch lever, start in 2nd gear, then accelerate moderately to approximately 5,000 RPM and come to a complete stop. Repeat 10 times. 	1 R 2 3 4 5 10 roll-on starts	
7. Place the bike in NEUTRAL and recheck Free Play Gain.	1 N 2 3 4 5	
 Continue to step 4 to adjust the installed gap until the Free Play Gain of the clutch lever is 1/8" to 1/4" (3 mm-6 mm). 	Recheck Free Play Gain and adjust the installed gap	

Note: Your clutch pack will expand with heat, so final adjustment to Free Play Gain should be made when the bike is warm. Remember not to ride without sufficient Free Play Gain.

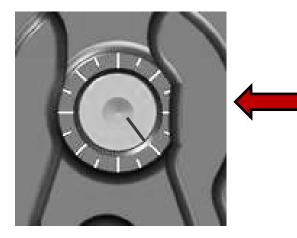
ACAUTION

Do not perform 3rd gear starts with this product. Starting in 3rd gear will burn up the clutch and decrease the performance of this product in a short amount of time.

Step 4: Adjust the installed gap and Recheck Free Play Gain

Once you have learned how to check Free Play Gain, you need to finish adjusting the installed gap, then recheck the Free Play Gain until the clutch lever moves only 1/8" to 1/4" (3 mm-6 mm). The gap is adjusted by turning the slave cylinder screw.

- a) With the bike running and in **NEUTRAL**, locate the adjuster screw in the center of the adjustable slave cylinder.
- b) Use a 4 mm hex key to turn the adjuster screw clockwise 1 tick mark from the last setting, then recheck Free Play Gain.



Tick marks are located on the slave cylinder, and an etch mark is on the screw. If you need to re-position the hex key, you can use these marks for reference.

- C) Continue to adjust the slave cylinder 1 tick mark at a time until optimal Free Play Gain is achieved.
- d) Refer to the following pictures and chart in the next section for additional adjustment information.
- e) The Free Play Gain will change as the clutch pack wears over time.
- f) Checking the Free Play Gain is easy and indicates when the install gap needs adjusting.

FREE PLAY GAIN ADJUSTMENTS

Make each adjustment in small increments - one tick mark at a time. After each adjustment, recheck Free Play Gain until you achieve the optimal 1/8" to $\frac{1}{4}$ " (3 mm-6 mm) of clutch lever movement.



Symptom	Reason	Solution
 Clutch lever moves in too far (too much Free Play Gain) Clutch has excessive drag or stalls It is difficult to fully override the clutch with the lever 	Installed gap is too small	Turn the adjuster screw clockwise 1-2 marks to increase the installed gap and decrease Free Play Gain. Recheck Free Play Gain.
 Clutch lever only moves slightly or does not move at all (too little Free Play Gain) Clutch slips Bike seems to lose power 	Installed gap is too large	Turn the adjuster screw counterclockwise 1-2 marks to reduce the installed gap and increase Free Play Gain. Recheck Free Play Gain.

MAINTENANCE

To keep your clutch performing at its best, perform regular maintenance on your bike and clutch.

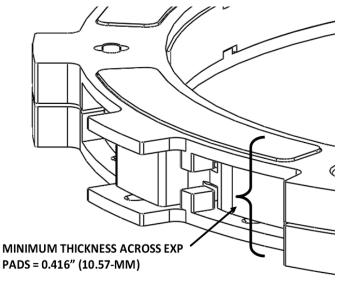
Clutch wear

Rekluse clutches are built using high quality materials but do wear based on the rider's use, type of terrain, and natural wear and tear. To keep your clutch performing at its best, perform regular maintenance on your bike and clutch based on your riding style.

- Maintain adequate Free Play Gain. Check before every ride and adjust as necessary.
- Repeat the break-in procedure anytime you replace any components of the EXP disk or frictions disks. Always soak new friction disks in fresh oil before installing.

Clutch parts

- Inspect all of your clutch parts at regular intervals for signs of wear or excessive heat, and replace components as necessary. Rekluse recommends inspecting after the first 10 hours of use, then every 20 hours after that.
- Measuring the clutch pack and/or the EXP disk can help determine if the components need replacing.
- Replace friction disks or drive plates if they are glazed and/or burnt. See the following sections for examples.



 Keep up with regular oil changes as per the bike manufacturer's recommendations. Clutch performance and longevity depend on oil quality. Oil recommendations can also be viewed under Tech Tips on our website at <u>www.rekluse.com/support/videos</u>.

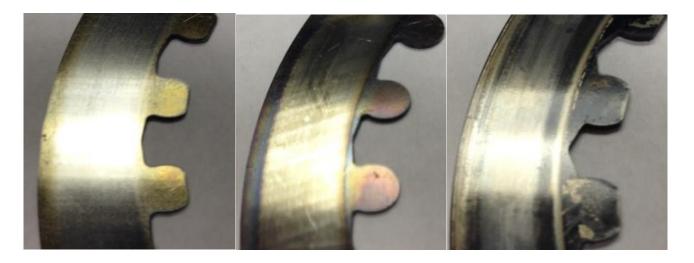
Basket

- Inspect the basket dampers and/or springs by checking the play between the ring gear and the basket. Replace the dampers/springs if you feel any play in the assembly.
- Inspect and replace basket sleeves if they appear to be notched from friction disks. Rekluse recommends replacing them every 25 hours for abusive riding/racing, every 50 hours for moderate riding, or every time friction disks are replaced.

Disk inspection examples

When inspecting the clutch pack, the following pictures can be used as a reference. These are best viewed in color by viewing this install document on our website at <u>www.rekluse.com/support</u>.

Drive Plates – If the clutch pack is getting high amounts of heat, purple, blue, or black color can be seen on the drive plate teeth. See pictures below. Not all drive plates look the same and may look different than pictured.



Normal Heat

High Heat (Blue) Excessive Heat (Black) **Friction Disks** – Due to the dark color of the friction material, the friction disks will appear almost black as soon as they are put in oil. During inspection, look for glazing of the friction material. Glazing will appear shiny and feel like glass, even after oil is cleaned from the friction disk. Not all friction disks look the same and may look different than pictured.



Normal Friction



Glazed Friction

TROUBLESHOOTING

Performance issues

If you find yourself adjusting the slave cylinder to fix Free Play Gain or drag, the clutch disks might be worn. Excessive heat or clutch slip can cause premature clutch failure as well. Once extreme temperatures are reached, irreversible damage will occur.

- Inspect all of your clutch parts for signs of wear or excessive heat, and replace components as necessary. Clutch wear is dependent on the riders use.
- Measuring the clutch pack and/or the EXP disk can help determine if the components need replacing.

Clutch noise

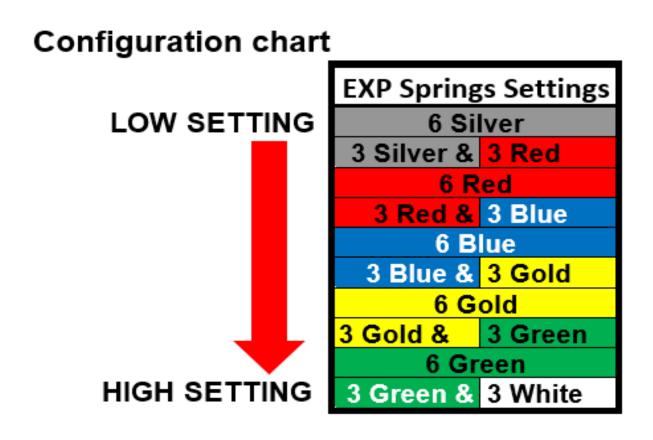
Although it is harmless, some bike models may have "squeal" or "chatter" coming from the clutch at low RPM as it engages. Clutch squeal is caused by the clutch components vibrating as the clutch engages and can become more audible as the clutch gets hot. Adjusting the installed gap will NOT affect clutch squeal or chatter. For bike models that have clutch squeal or chatter here are some recommendations to reduce or eliminate it:

Oil: For optimal clutch performance Rekluse recommends using fresh, clean oil that **meets JASO-MA** oil rating requirements. Rekluse offers Factory Formulated Oil[™] developed specifically for Rekluse products. Rekluse Factory Formulated Oil is a perfect complement to any OEM or aftermarket wet clutch. Visit <u>www.rekluse.com</u> to learn more.

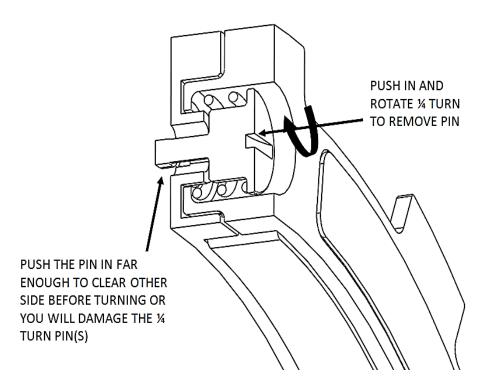
EXP TUNING OPTIONS

Adjusting the engine idle speed to match your engagement setting is important and greatly affects the overall feel of how the EXP disk engages.

To prevent freewheeling and maximize engine braking, set the idle so there is a slight amount of drag while the bike is idling in gear and warmed up. The idle should not be so high as to move the bike forward in gear with the throttle closed. However, with a small opening of the throttle the bike should move forward.



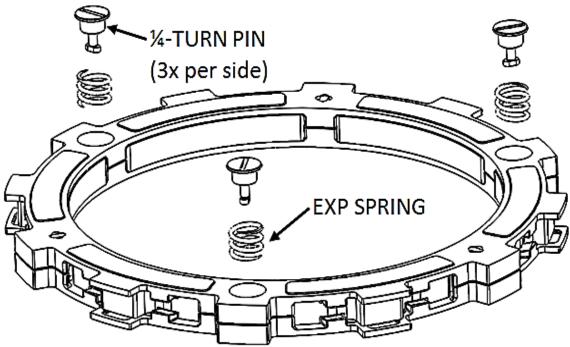
You can tune the engagement RPM of the EXP disk by changing the spring configuration. The EXP disk comes set with the recommended "**Medium**" setting from Rekluse. Use the following steps to change the springs. It is **NOT necessary** to disassemble the EXP halves to change springs!



Changing the springs

- Using a flat-blade screwdriver, push the ¼ turn pin in far enough to clear the opposite side of the EXP to unlock the pin.
- 2. With the pin still pushed past the base, turn 90° to remove the pin and spring.
- 3. Remove the remaining 2 pins and springs from the same side of the EXP base.

4. Drop a new spring into the spring slot on the base, then add the 1/4 turn pin.

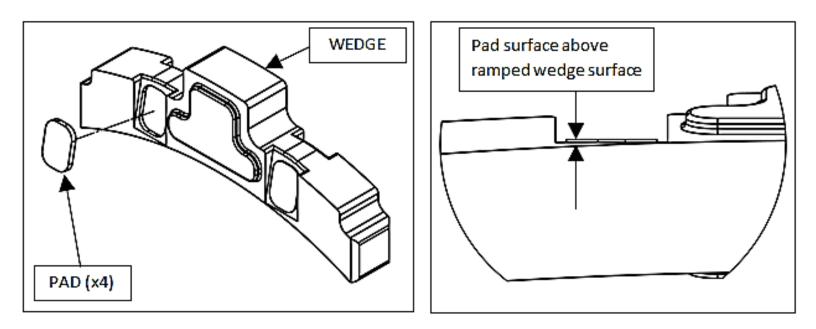


- 5. Push the turn pin in far enough to clear the base, then turn 90° and release the pin. The pin should sit almost flush with the EXP base.
- 6. Flip the EXP friction disk over, and repeat on the other side depending on engagement preference.
- If you need to disassemble the EXP disk, you can watch the video on our website under Tech Tips at <u>http://www.rekluse.com/support/videos.</u>

Note: To maintain even pressure, when using two different color spring sets, install one set of 3 on one side of the EXP and the remaining set of 3 on the other side.

If you disassemble the EXP, the Teflon pads may fall out or be stuck to the ramp surfaces of the EXP bases. Take care to ensure all pads are correctly placed into wedge pockets using gentle pressure to avoid damage to the pad surfaces before reassembling the EXP. Properly seated pads will be secured in place once the EXP is

reassembled. Operating the clutch without the pads in place will cause part damage or failure.



BUMP-STARTING

If your bike needs to be bump-started due to a dead battery or any other reason, follow the steps below to quickly bumpstart your bike.

- 1. Turn the adjustable slave cylinder counterclockwise to collapse the gap until no resistance is felt.
- 2. Bump start the bike. The clutch will function like a manual clutch at this point, but the clutch will not be fully over-ridable at high RPM.
- 3. Once the bike is started, readjust the installed gap.

NEED ADDITIONAL HELP?

Website

www.rekluse.com/support

Frequently Asked Questions

www.rekluse.com/faq

Support Videos

www.rekluse.com/support/videos

Phone

(208) 426-0659

Technical Support

Contact Technical Support for questions related to product installation, tuning, and performance.

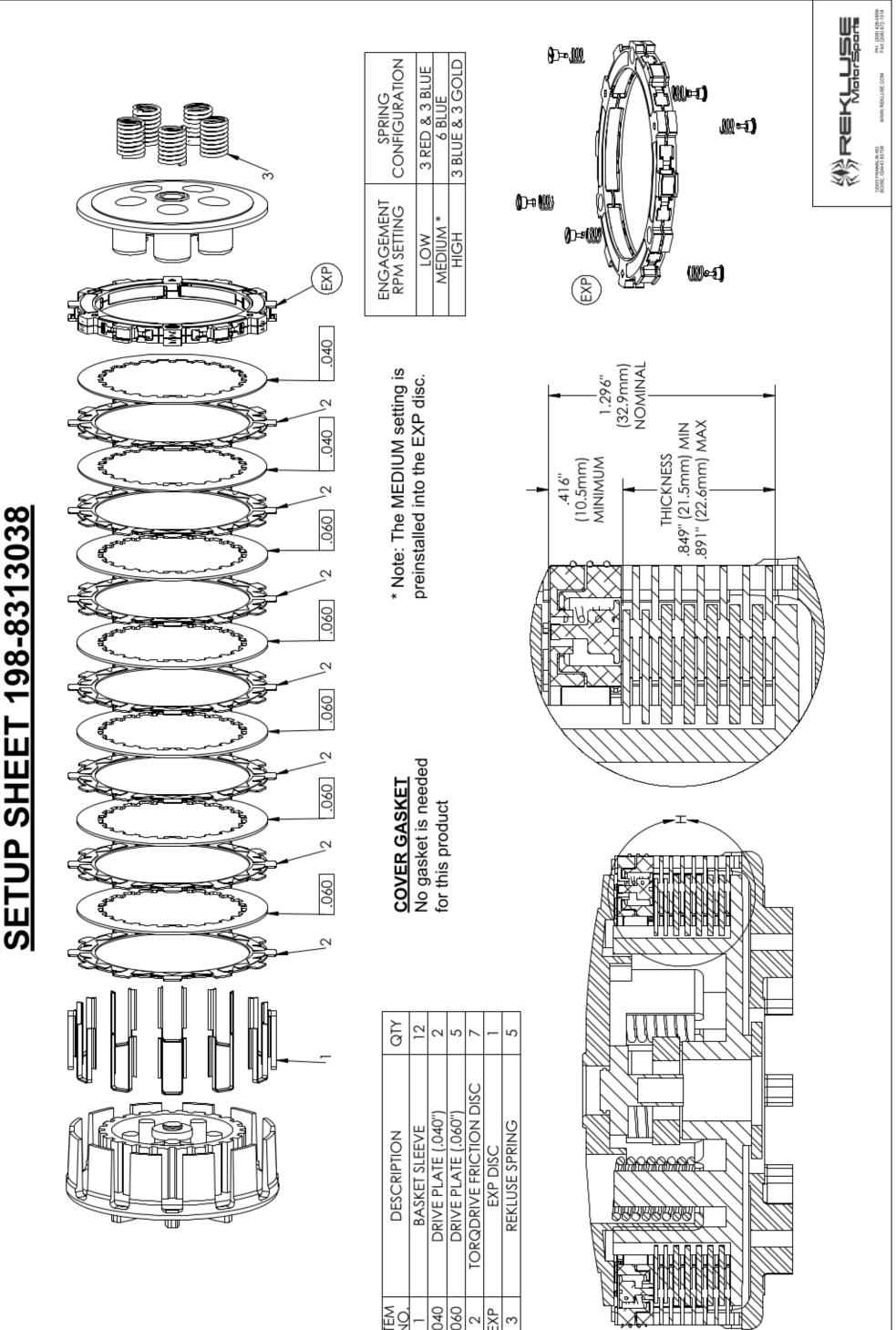
Technical Support hours: Monday thru Friday: 8:00 a.m. - 5:00 p.m. Mountain Time zone Email: tech@rekluse.com

Customer Service

Contact Customer Service for additional product information, orders, and returns.

Customer Service hours: Monday thru Friday: 8:00 a.m. - 5:00 p.m. Mountain Time zone Email: customerservice@rekluse.com





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DESCRIPTION	BASKET SLEEVE	DRIVE PLATE (.040")	DRIVE PLATE (.060")	TORQDRIVE FRICTION DISC	EXP DISC	REKLUSE SPRING	
ITEM NO.	1	.040	090.	2	EXP	З	