



INSTALLATION & USER'S GUIDE

TorqDrive[®] Clutch Pack
for Honda CRF300L and CMX300

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OVERVIEW

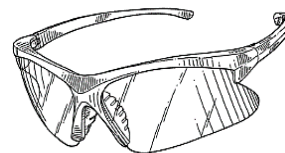
This guide shows you how to replace your OE (Original Equipment) or “stock” clutch pack with your new Rekluse TorqDrive[®] clutch pack. This clutch pack is designed specifically for your bike. The following parts are replaced:

- OE drive plates
- OE friction disks

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 working on the clutch easier and eliminates the need to drain the oil. Catch any fuel that may drain from the bike.
- Drain the coolant before installing the clutch.
- Use the torque values listed in the instructions. Otherwise, use the torque specifications found in your OE service manual.
- 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 NEEDED

			
10 mm socket	8 mm socket	6 mm socket	Metric Wrench
			
Pick	Fluid Catch Container	5 mm Hex key	Torque Wrench

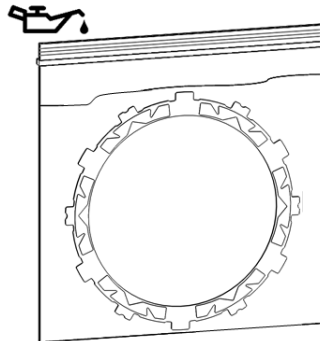
INCLUDED PARTS

The parts included in the kit depend on the bike model. See the **Setup Sheet at the back of this manual** for a list of included parts and illustration.

You can also visit our website at www.rekluse.com/support for a full parts fiche illustration and part numbers.

DISASSEMBLE THE CLUTCH

1. Soak the Rekluse friction disks in new oil for at least 5 minutes. Make sure the friction disks are coated on both sides.



2. Drain the coolant into a suitable container using the drain bolt on the water pump and a funnel.



3. Lay the bike on its left side. Catch any fluids that might drain into a suitable container.

4. Lay the bike on its left side. Catch any fluids that might drain into a suitable container.



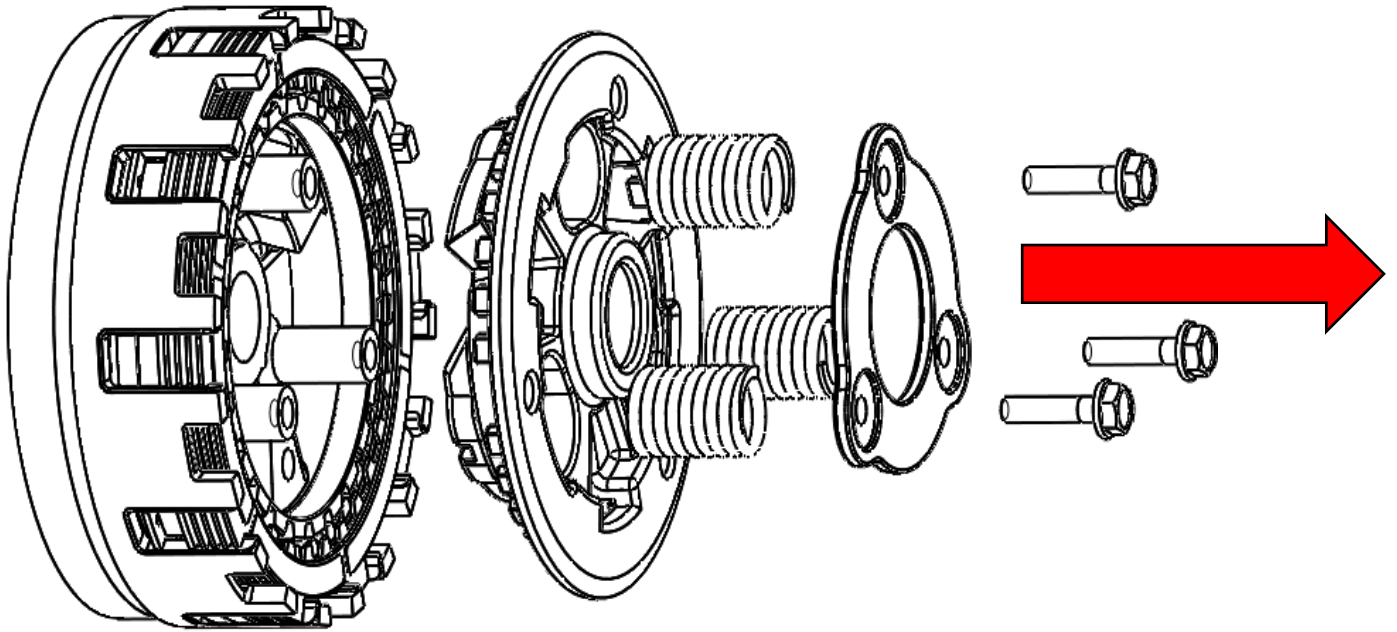
5. Remove the side cover guard using the 5mm hex key.
6. Remove the coolant hose from the clutch cover and move out of the way.
7. Compress the rear brake caliper and zip tie the rear brake lever to the frame to gain cover access.



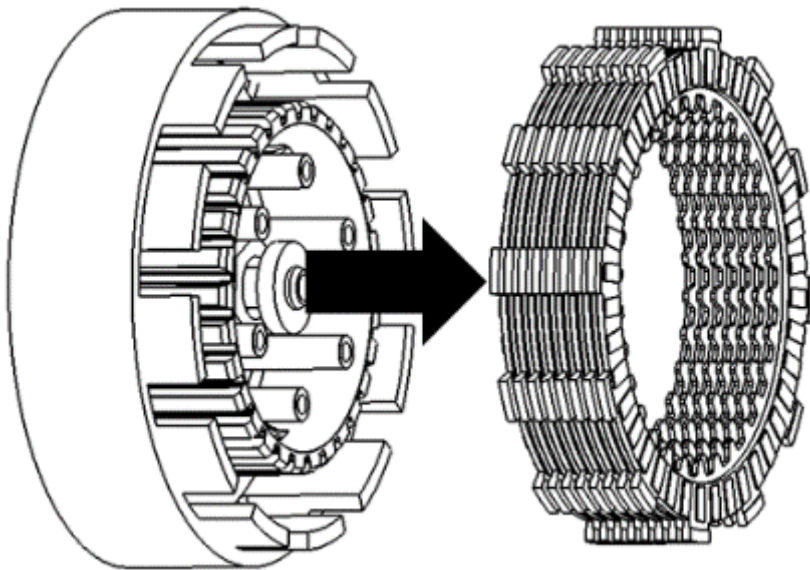
8. Disconnect the clutch cable from the actuator arm.
9. Remove the OE clutch cover. Set it aside.

Note: Replace the cover gasket if there is damage from removing the cover.

10. Remove the OE pressure plate bolts, spring ring, springs, and pressure plate. **Set them aside; they will be reused.**



11. Remove the clutch pack including the OE judder spring and seat. Set aside the Judder spring and seat as they will be reused.



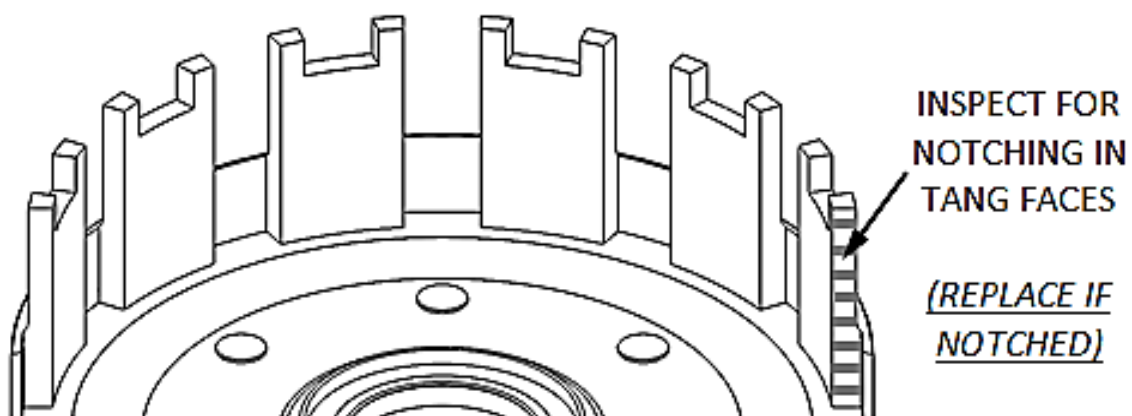
INSTALLING THE CLUCK PACK

Notes for Clutch Pack Installation

- *Some OE baskets have “half slots” at the top of the basket tangs. Rekluse products require the entire clutch pack to be installed into the MAIN (deeper) basket slots. Do not use the “half slots” (see below).*



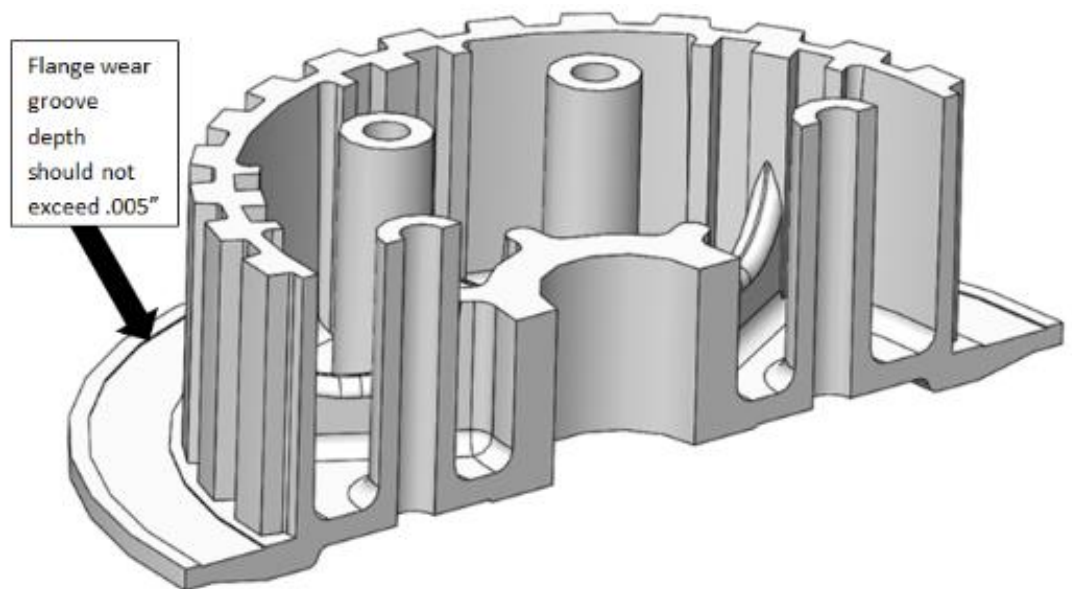
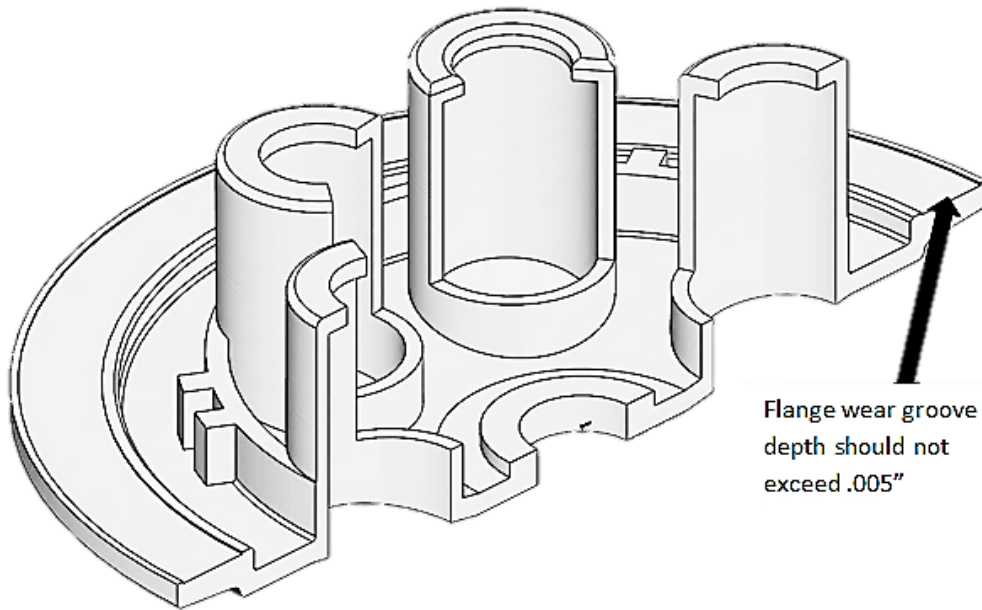
- *Inspect the clutch basket for damper and/or spring play.*
- *Inspect the clutch basket for notching. Do not install sleeves or use this product with a notched basket. Notched basket tang faces can cause the sleeves to break. Do not use baskets that have been filed, machined, or modified on the tangs.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



⚠ WARNING

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

- *Inspect your OE center hub and pressure plate flanges for excess wear. If wear is visible use a drop gauge to verify that the wear across the flange does not exceed .005" (.12mm).*

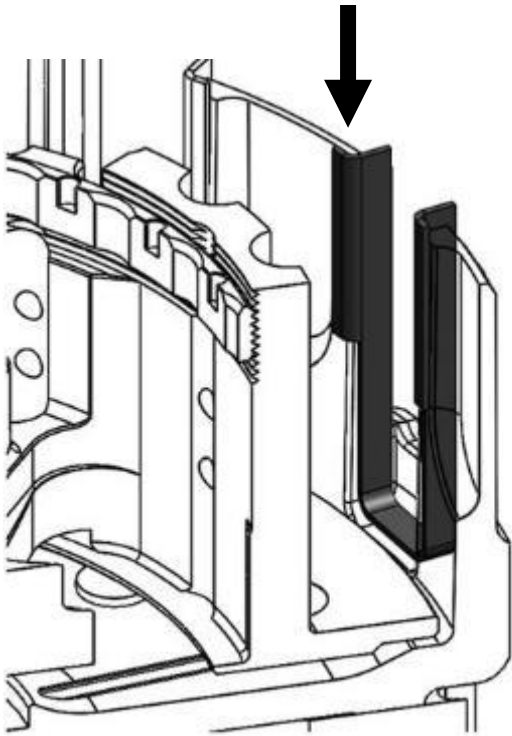


- *Some friction disks are marked with a small colored dot. This mark is used for processing and can be ignored.*

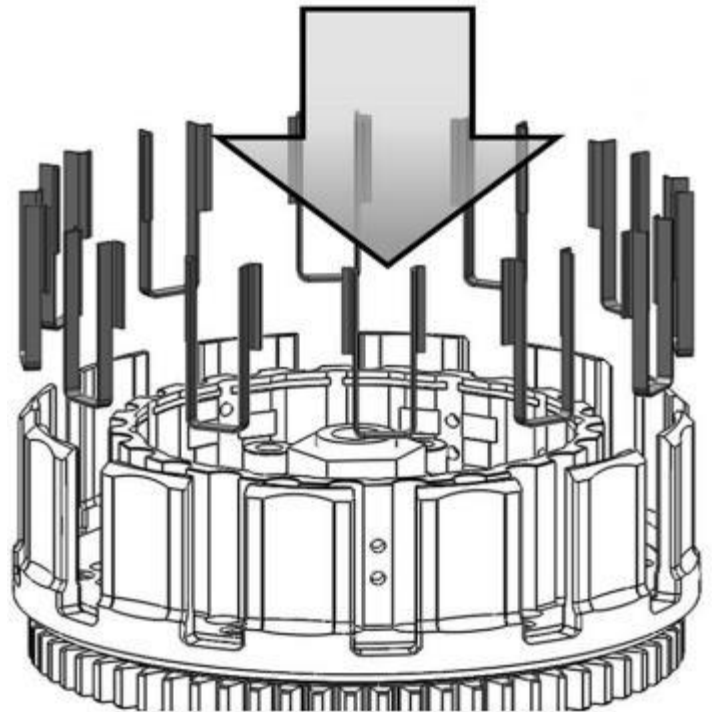
Install Clutch Pack

1. 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.

Sleeve tabs sit inside the basket



Install all the basket sleeves



Note: When seated in the basket, the sleeve tops may sit slightly above or below the top of the basket.

2. Install the Rekluse clutch pack. **See the included Setup Sheet for the proper clutch pack configuration.**
 1. Turn the pressure plate over onto a work bench. Place the one thick friction disk on to the pressure plate.

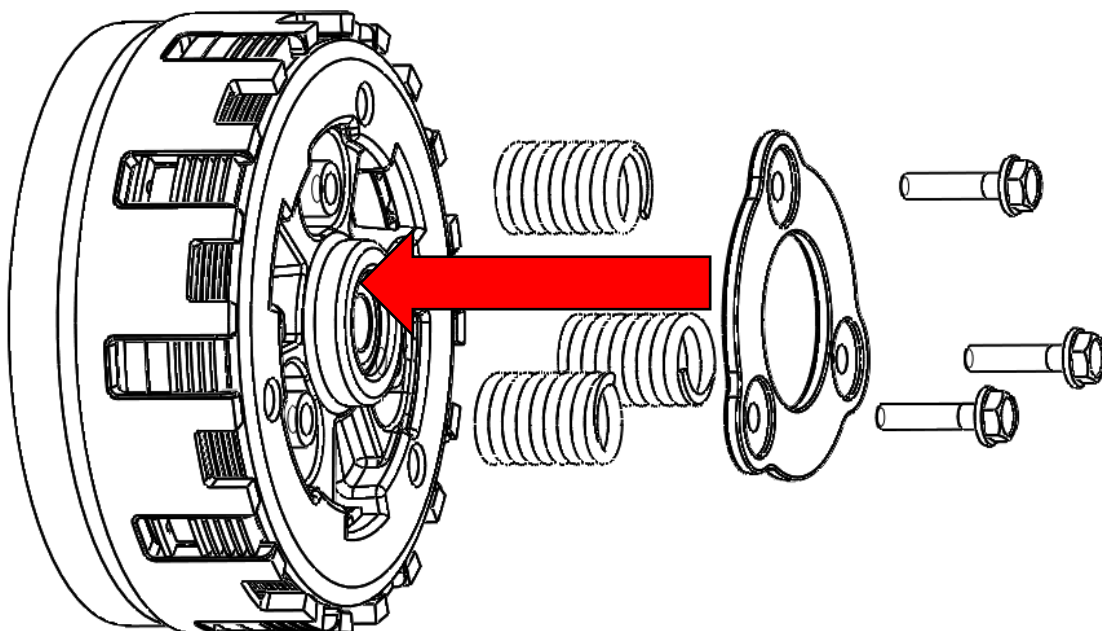
2. Next place the .065" drive plate on to the pressure plate and place the last thick friction disk.



3. Reinstall the pressure plate onto the clutch pack. Verify the drive plates have not come unindexed to the pressure plate after installation by moving the friction tabs. A properly indexed clutch pack should not have a gap.

Note: Oil on the drive plates and positioning your fingers in the half slots of the basket when installing can help keep the drive plates indexed to the pressure plate.

4. Install the OE pressure plate springs, spring ring, and OE bolts.



5. Tighten the pressure plate bolts to the OE torque specifications. Tighten each bolt in small increments to prevent bending of the spring ring.

6. Reinstall the OE clutch cover gasket.
7. Before installing the clutch cover, verify that the clutch actuator return spring is in place and functioning. The spring falls off easily if the actuator arm is pulled out.



8. Reinstall the clutch cover, then reinstall the cover bolts. Tighten the cover bolts in a star pattern to the OE torque specifications. Tighten each bolt in small increments, following a star pattern.
9. Reverify the actuator arm spring is functioning correctly then reinstall the clutch cable.
10. Reconnect the coolant hose to the cover.
11. Reinstall the side cover guard.
12. Lift the bike up and set it on the kickstand
13. Remove the push pin on the right-hand radiator shroud and refill the radiator with coolant.
14. Adjust the stock lever free play to OE specification or **10-20 mm (.04 -.08 in)**.



BREAK-IN

- Break-in will occur over the first 1-2 hours of use, depending on the rider. During break-in more clutch drag may occur than normal.
- It is recommended to do an oil change after 1-2 hours of riding to drain any excess clutch debris that occurred from break-in.

Note: It is normal for some clutch debris to be produced during break in. Following break-in, remove and inspect the OE oil filter. Clean or replace it if necessary. Remove and inspect any additional oil screens for clutch debris and clean or replace if necessary.

TROUBLESHOOTING

Clutch Drag:

- Cold Drag Only – If drag occurs only while the bike is cold, oil is the most likely cause. Be sure to warm up the bike before riding/racing. Use of new or lighter weight oil can help to minimize cold drag.
- Hot and Cold Drag –Check for any warped steel drive plates or frictions in the clutch pack, or other signs of wear caused by extreme heat.

Clutch Slip:

- If clutch slip occurs, inspect the clutch for signs of wear or heat.
- Check clutch lever free play.

MAINTENANCE

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. Clutch longevity and performance is greatly increased with clean oil and other bike factors that reduce engine heat.

- Check clutch lever free play.
- Inspect all of your clutch parts at regular maintenance intervals for signs wear or excessive heat, and replace components as necessary. Clutch wear is dependent on the riders use.
- Inspect and replace basket sleeves if they appear to be notched from friction disks.
- Keep up with regular oil changes as per the bike manufacturer's recommendations. Clutch performance and longevity depend on clean oil.
- For optimal clutch performance Rekluse recommends using fresh, clean oil that **meets JASO-MA** oil rating requirements.
- Repeat the break-in procedure anytime you replace the friction disks. Always soak friction disks in new oil for at least 5 minutes before installing.

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 at www.rekluse.com/support.**

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

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.

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.

Hours:

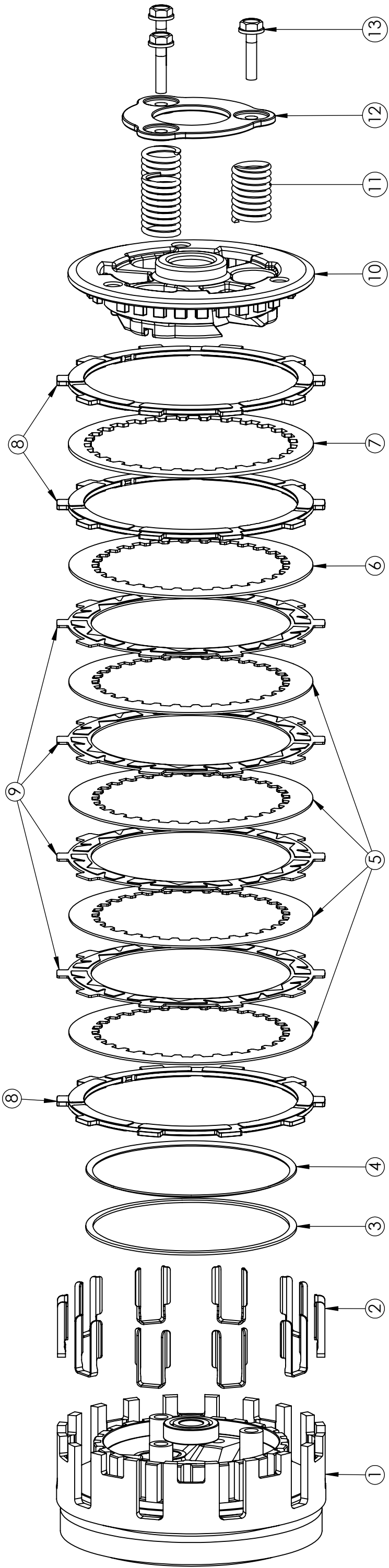
Monday thru Friday: 8:00 a.m. - 5:00 p.m.

Mountain Time zone

Email: customerservice@rekluse.com



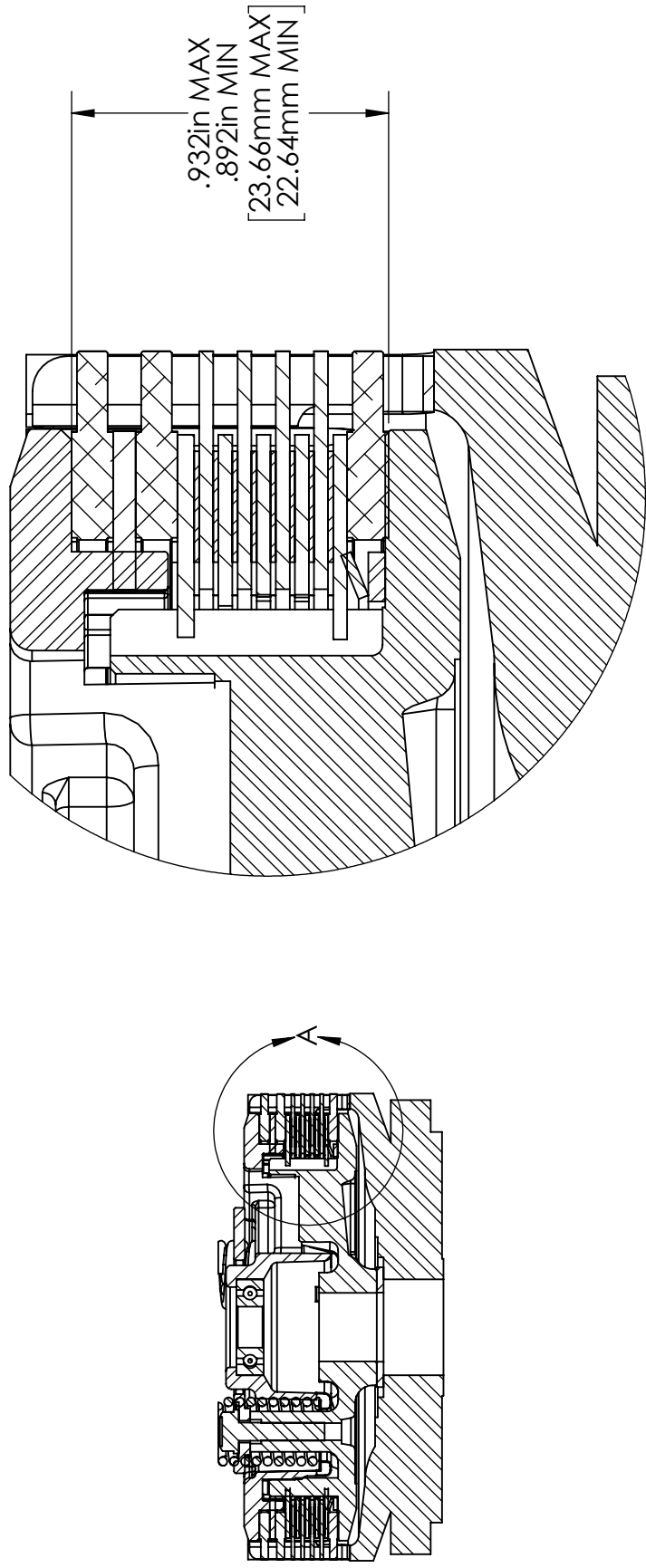
SETUP SHEET 198-2801023



SERVICE LIMITS

COMPONENT	STANDARD	SERVICE LIMIT
TORQDRIVE FRICTION	.068-.072in 1.73-1.83mm	.065in 1.65mm
THICK FRICTION	.116-.120in 2.95-3.05mm	.113in 2.87mm

CLUTCH PACK THICKNESS



COMPONENTS

ITEM NO.	DESCRIPTION	QTY.
1	OE BASKET	1
2	BASKET SLEEVE	10
3	OE JUDDER SPRING SEAT	1
4	OE JUDDER SPRING	1
5	DRIVE PLATE .040" (1mm)	4
6	DRIVE PLATE .048" (1.2mm)	1
7	PRESSURE PLATE DRIVE PLATE .065" (1.65mm)	1
8	THICK FRICTION .118 (3MM)	3
9	TORQDRIVE FRICTION .070 (1.78mm)	4
10	OE PRESSURE PLATE	1
11	OE PRESSURE PLATE SPRING	3
12	OE SPRING RING	1
13	OE PRESSURE PLATE SCREW	3