

CLUTCH KIT

INSTALLATION GUIDE

2018-2020 Polaris RS1

PARTS LIST

19-DCK12

- 3** CLUTCH ARMS
- 1** PRIMARY SPRING RED
- 1** SECONDARY SPRING GREEN

6 MAGNET (3/16")

27 MAGNET (3/8")

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

**THIS KIT REQUIRES SPECIAL TOOLS FOR INSTALLATION.
FOR BEST RESULTS, DYNOJET RECOMMENDS
INSTALLATION BY A QUALIFIED TECHNICIAN.**

2191 MENDENHALL DRIVE, NORTH LAS VEGAS, NV 89081
800-992-4993

WWW.DYNOJET.COM

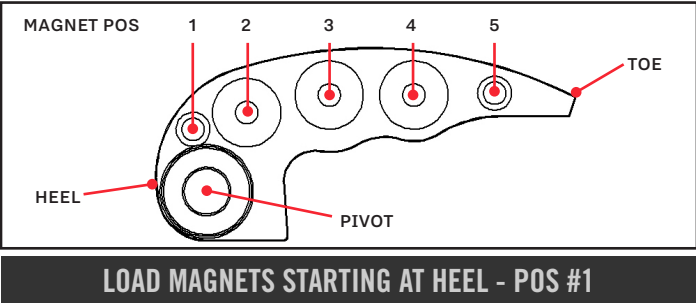


CLUTCH KIT ADJUSTMENT SETTINGS

INTENDED USE	ELEVATION	MAGNET POSITION	TOTAL WEIGHT	PRIMARY SPRING	SECONDARY SPRING
Trail Std Tire	0-2500 ft	1-3-2-0-0	62 gr	RED	GREEN
Trail 30-32"	0-2500 ft	1-3-1-0-0	61 gr	RED	GREEN
SAND Std Tire	0-2500 ft	1-3-2-0-0	62 gr	RED	GREEN
SAND 30-32"	0-2500 ft	1-3-1-0-0	61 gr	RED	GREEN
SAND PADDLE TIRE / HEAVY LOAD MUD	0-2500 ft	1-3-0-0-0	59 gr	RED	GREEN

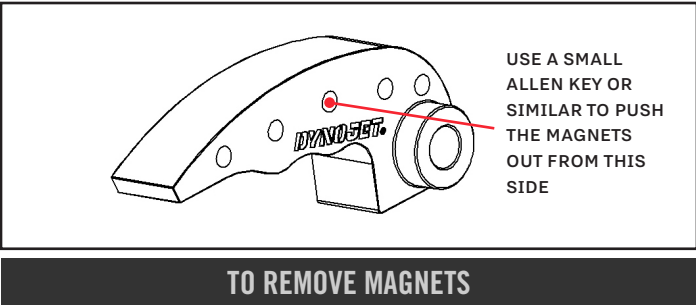
RECOMMENDED SETTINGS FOR HIGH ELEVATION	
Subtract 1 Magnet (from each arm starting from toe side)	3000 ft
Subtract 2 Magnets (from each arm starting from toe side)	6000 ft
Subtract 3 Magnets (from each arm starting from toe side)	7500 ft
Subtract 4 Magnets (from each arm starting from toe side)	9000 ft

CLUTCH ARM ADJUSTMENT



LOAD MAGNETS PER THE TABLE ABOVE. MAKE SURE EACH CLUTCH ARM IS LOADED WITH THE SAME AMOUNT OF WEIGHT.

- MORE WEIGHT NEAR HEEL INCREASES ACCEL
- MORE WEIGHT AT TOE DECREASES RPM
- 1 MAGNET CHANGE IN EACH ARM WILL ALTER RPM APPROXIMATELY 150RPM



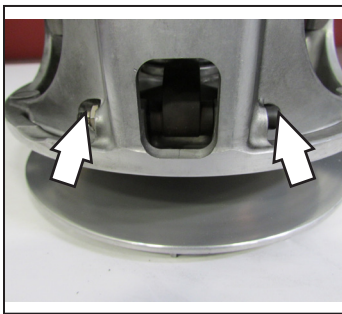
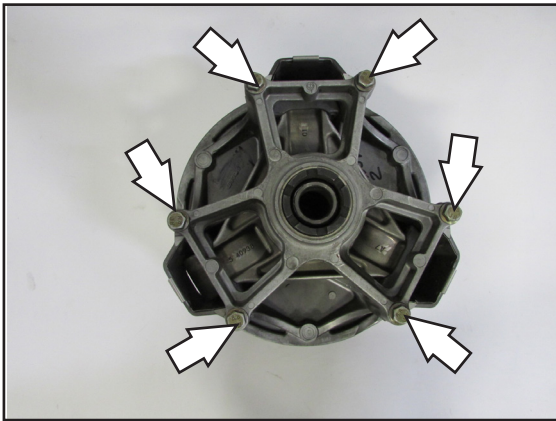
OUR SETTINGS ARE A GENERAL BASELINE. MANY THINGS CAN EFFECT CLUTCH SETUP:

- TIRE BRAND & SIZE
- STATE OF CLUTCH WEAR
- DRIVEBELT CONDITION
- ENGINE POWER OUTPUT
- ENVIRONMENT CONDITIONS

INSTALLATION INSTRUCTIONS

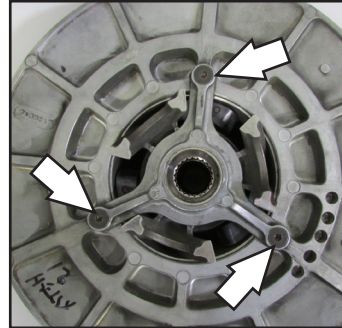
IT IS RECOMMENDED TO HAVE AN AUTHORIZED POLARIS TECHNICIAN INSTALL THE CLUTCH KIT AS SPECIAL TOOLS ARE NEEDED TO COMPLETE THE INSTALLATION.

Removing the left hand side rear shock gives better access to the clutch housing and parts but is not necessary for installation. Remove all the 8mm head bolts for the plastic, clutch housing. Remove clutch housing. Mark the direction of the drivebelt. Remove the drivebelt. Using the Polaris clutch puller part #2872085 remove the primary clutch. It is recommended to grease the threads of the clutch puller before usage. Remove the 6 bolts for the primary spring cover. Remove the bolts evenly as there is a significant amount of spring pressure.



Remove the clutch arms using 3/8" socket and 1/8" allen key. Install the Dynojet clutch arms with the proper amount of weight. Refer to chart on page 2. Install the Dynojet primary spring and reinstall the spring cover. Tighten the 6mm bolts evenly to 9 ft-lb (12 Nm).

Remove the secondary clutch. Use a 15mm socket to remove the retaining bolt. Remove the snap ring and slide the secondary clutch off the input shaft. Before taking



the clutch apart, be sure to mark the stationary sheave, moveable sheave, helix and cover with a reference mark. Remove the 3 torx head bolts. This cover is under extreme spring pressure. Use a clutch compression tool.

Replace the stock spring with the Dynojet spring. Reassemble the secondary clutch paying attention to the alignment marks and reinstall on the input shaft. Make sure you reinstall the thrust bearing, thrust washer and snap ring. Torque the retaining bolt to 54 ft-lb (73 Nm).

Reinstall the primary clutch on the output shaft. Torque the retaining bolt to 96 ft-lb (130 Nm). Reinstall the drivebelt.

TUNING NOTES

For best performance your RPM when checked at 50mph should be 8400rpm. This should be checked on a surface that offers good traction and tested with normal load in the vehicle. Adjustments to overall weight of each clutch arm may be necessary to achieve this RPM target.

If you were to test on the street and then ride in the sand or mud it is not uncommon to see a loss of 300-400rpm if using paddle tires.

Our settings are based on using a PVCX tune in the ECM for optimal performance.

TOOLS NEEDED FOR INSTALLATION

- DYNOJET PULLER (16300004)
- DYNOJET COMPRESSION TOOL (79100011)
- 21MM SOCKET
- 15MM SOCKET
- SNAP RING PLIERS
- T27 TORX
- 3/8" SOCKET
- 1/8" ALLEN KEY

PUSH THE LIMIT.

WWW.DYNOJET.COM

© 2018 DYNOJET RESEARCH ALL RIGHTS RESERVED