



PERFORMANCE PARTS FOR ROYAL ENFIELD® 650 TWIN




SEPT 2019



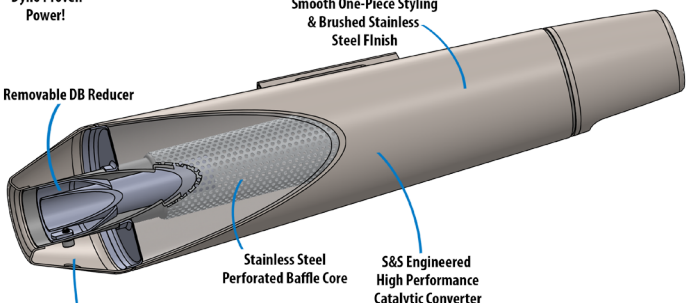
Tapered Cone Slip-ons for RE 650 Twins

- Improved horsepower & torque
- Smooth one piece styling
- Brushed Stainless Steel Finish
- Removable dB reducer
- Deep performance exhaust note
- Durable all Stainless Steel construction
- Stock-----22.4 lbs (10.1 kg)
US Compliant-----10.8 lbs (4.9 kg)
Race Only-----9 lbs (4 kg)
- J2825 Sound Compliant



**PROVEN
S&S
PERFORMANCE**

TECH TOUR



Dyno Proven Power!

Smooth One-Piece Styling & Brushed Stainless Steel Finish

Removable DB Reducer

Stainless Steel Perforated Baffle Core

S&S Engineered High Performance Catalytic Converter

Tapered End Styling with Smooth Formed End

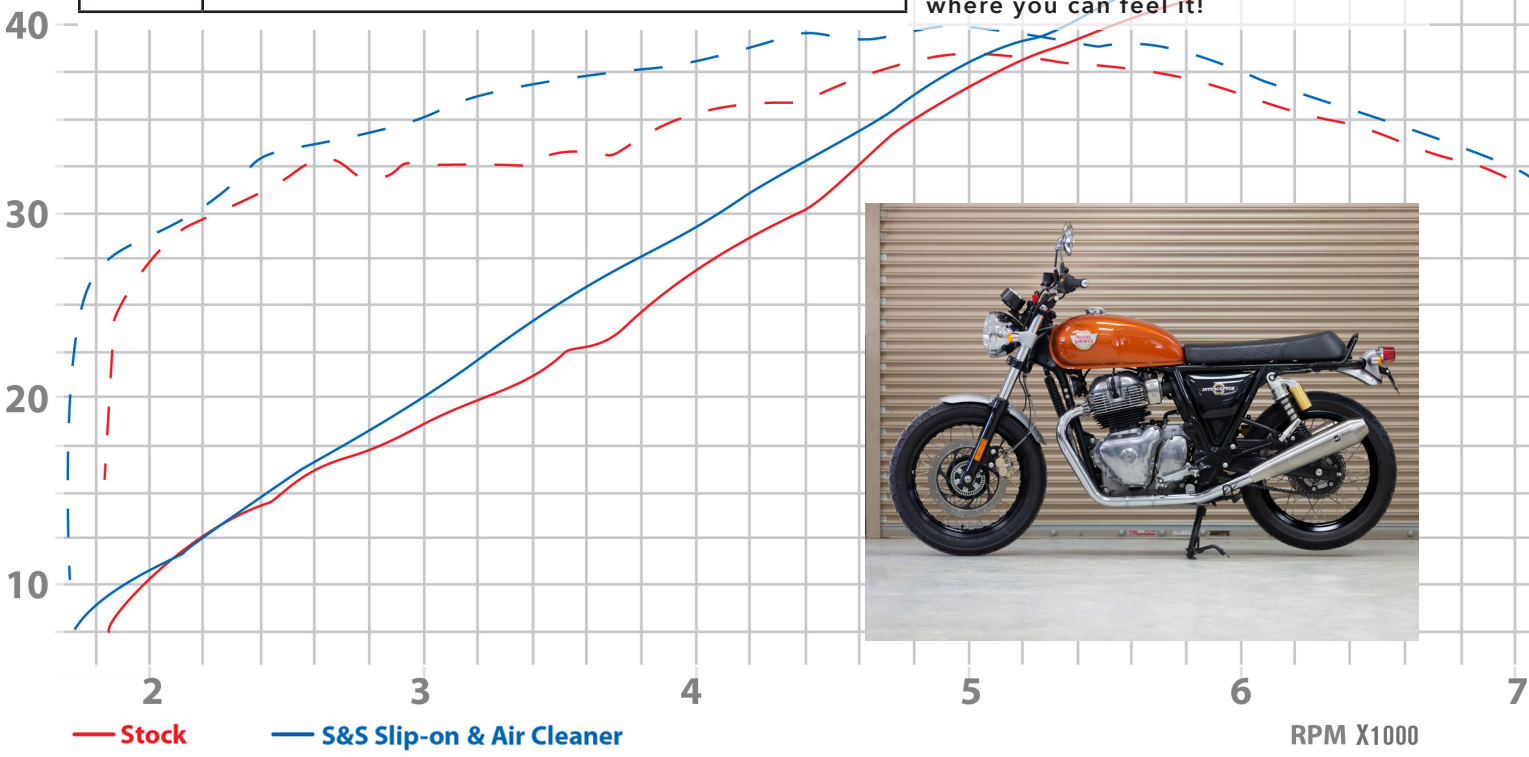
Royal Enfield 650 Twin Slip-Ons

Slip-on Exhaust available exclusively through **ROYAL ENFIELD** dealers in North America



Part #	Description
550-0855	50 State Stainless Slip-On Set for Royal Enfield® 650 Twins (RE Exclusive)
550-0770	Race Only Stainless Slip-On Set for Royal Enfield® 650 Twins±

S&S Slip-ons increase power in the mid range where most riding is done. Expect to see a 13.5% increase in horsepower in the most important RPM range, power where you ride and where you can feel it!



DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE
 *Qualified Manufacturer Declared 49-State Emissions Compliant Catalyst Exhaust Component
 ±FOR CLOSED COURSE COMPETITION USE ONLY. NOT INTENDED FOR STREET USE. LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES WHICH MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, UPON A HIGHWAY.



650 Twin Air Filter Features

Air Filter-

- High-flow air cleaner, flows 12% better than stock (34.7cfm vs. stock 30.9cfm)
- Washable, no more replacing dirty air filters
- Easy to install

Cover Eliminator-

- High-flow performance. 95% increase in flow, when paired with the S&S air filter (60.4 cfm vs. stock 30.9 cfm)
- Made from durable stainless steel



Part #	Description
170-0601	High-Flow Replacement Air Filter for Royal Enfield® 650 Twins
170-0603	High-Flow Air Intake Eliminator Plate Kit for Royal Enfield® 650 Twins

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Intake			
Open	Close	Duration	Lobe Center
1° BTDC	35° ABDC	216	107

Exhaust			
Open	Close	Duration	Lobe Center
32° BBDC	10° ATDC	222	101

High lift and longer duration cam builds power sooner in the RPM range and holds it for longer. The new S&S cam for the 650 Twin also features adjustable timing to allow you to dial in the power curve to match your riding style.

Part #	Description
330-0709	High-Performance Camshaft Kit with Shims for Royal Enfield® 650 Twins

These high compression pistons feature a 7cc raised dome to achieve a compression ratio of 11:1 (from 9.5:1). Higher compression is a key factor in increasing performance.



750cc Big Bore Kit		
	Stock	750 Kit
Bore x Stroke	78 x 67.8mm	83.5 x 67.8mm
Compression Ratio	9.5:1	11.0:1
865cc Big Bore Kit		
	Stock	865 Kit
Bore x Stroke	78 x 67.8mm	90 x 67.8mm
Compression Ratio	9.5:1	11.0:1

Part #	Description
920-0143	High-Compression 11:1 Piston Kit for Royal Enfield® 650 Twins
920-0144	750cc Big Bore Kit for Royal Enfield® 650 Twins
920-0145	865cc Big Bore Kit for Royal Enfield® 650 Twins

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650 Twin Adjuster Features

Handlebar Adjusters-

- Easy to install
- Up to 1" (25mm) adjustment forward or backward
- Billet 6061
- Durable black powder coat finish



Adjusters shown 1" (25mm) forward

Part #	Description
570-0003	Handlebar Adjuster Kit for Royal Enfield® INT 650 Twins
27-003	Dynojet® Power Commander® V for Royal Enfield® 650 Twins
IPT3.14	Pulse IPT Battery P.14 for Royal Enfield® 650 Twins

Dynojet® Power Commander® V Features

Power Commander® V Tuner-

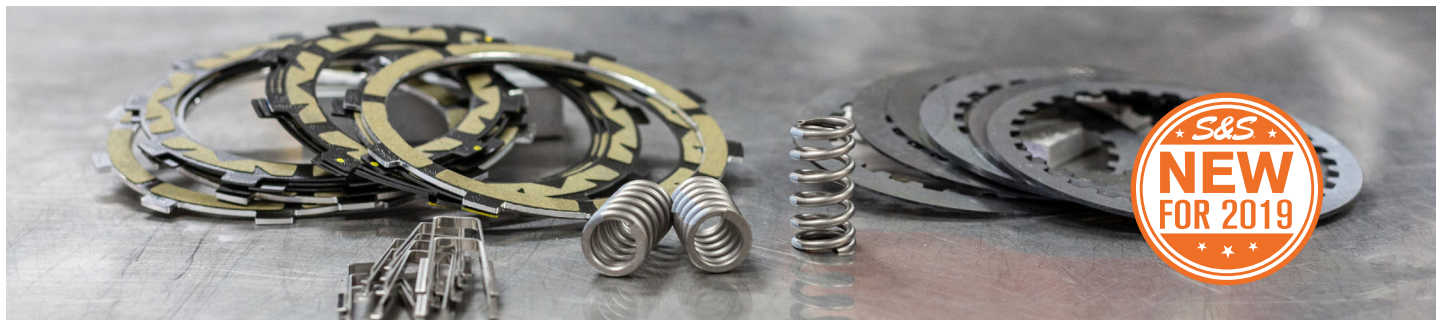
- Discover untapped potential and get the most out of your performance combinations with the Dynojet Power Commander V for Royal Enfield 650 twin models.

Pulse IPT Battery P.14 Features

Lithium-Ion Battery-

- Lightweight 210ca/3.6ah lithium motorcycle battery
- With the emergency start capability



















Part #	Description
560-0260	Performance Clutch Kit for Royal Enfield® 650 Twins


Performance Clutch Kit provides more disks in less space, adding five additional friction disks to the clutch pack over stock. More friction plates equals more torque capacity thus unlocking the full power of your engine without the need to add stiffer pressure plate springs.

Parts List:

Part #	Description
550-0855	50 State Stainless Slip-On Set for Royal Enfield® 650 Twins <i>(Available exclusively through RE dealers in North America)</i>
550-0770	Race Only Stainless Slip-On Set for Royal Enfield® 650 Twins <i>(Requires racing license in North America)</i> 
550-1000	Race Headers for Royal Enfield® 650 Twins 
170-0601	High-Flow Replacement Air Filter for Royal Enfield® 650 Twins 
170-0603	High-Flow Air Intake Eliminator Plate Kit for Royal Enfield® 650 Twins 
920-0143	High-Compression 11:1 Piston Kit for Royal Enfield® 650 Twins 
920-0144	750cc Big Bore Kit for Royal Enfield® 650 Twins 
920-0145	865cc Big Bore Kit for Royal Enfield® 650 Twins 
330-0709	High-Performance Camshaft Kit with Shims for Royal Enfield® 650 Twins 
560-0260	Performance Clutch Kit for Royal Enfield® 650 Twins 
27-003	Dynojet® Power Commander® V for Royal Enfield® 650 Twins 
550-0959	S&S ECM Kit with Adapter Harness for Royal Enfield® 650 Twins 
570-0003	Handlebar Adjuster Kit for Royal Enfield® INT 650 Twins
IPT3.14	Pulse IPT Battery P.14 for Royal Enfield® 650 Twins

Services:

Part #	Description
900-1038	CNC Ported Head (Core Required) Service for Royal Enfield® 650 Twins 
310-1091	Engine Rebuild Service for Royal Enfield® 650 Twins 
910-0750	Cylinder Liner Install Service (Includes Bore and Hone) for Royal Enfield® 650 Twins 

 **DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE.**
 Not legal for sale or use on any EPA pollution controlled motor vehicle.

±  **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov



Breaking Hearts & Records with Cayla Rivas

Setting records on the Bonneville Salt Flats has been part of the S&S ethos for decades and the opportunity to support Royal Enfield with their brand new bike was just the kind of challenge we love. The twin cylinder 600-750cc naturally aspirated class record stood at a respectable 100 mph. At the time, no other company had built a performance version of the new RE powertrain and the team had less than 90 days to make it happen. The result? Adding Cayla Rivas and a chassis built by Harris Performance, the team left with a new record of 159.03 mph and a solid understanding how to make power with the latest engine from the storied Royal Enfield brand.

Proven Performance Developed on the Race Track

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