The Clutch By Macey and Jen

What is the clutch?

In basic terms:

The clutch disengages the transmission and rear wheel from the engine temporarily.



Where is the clutch and what does it look like?



https://www.hotbikeweb.com/rekluse-exp-30-auto-clutch



History of the Clutch

Early models of the clutch were just a pulley connected to a belt that connected the engine to the rear wheel.

Later on metal clutches with plates were invented

Suicide Clutch on Harley-Davidson Motorcycles (1952)

Dry ---> Wet clutches



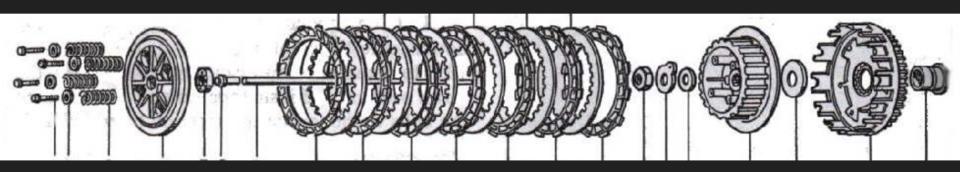
https://theridingcenter.com/how-do-you-shift-motorcycle-gears/



https://www.youtube.com/watch?v=7hUljSCv7S

What is the clutch?

A diagram of the clutch



Clutch Pressure bolts and plate springs

Forces everything together

Clutch pack
With steel and friction plates

Steel plates

- groves on the inside
- connect to the inner basket

 Friction plates
 - groves on the outside
- Connects to outerbasket

Inner hub/ inner basket

Outer basket

Connects to the transmission input shaft

Connects to and turns with the crankshaft

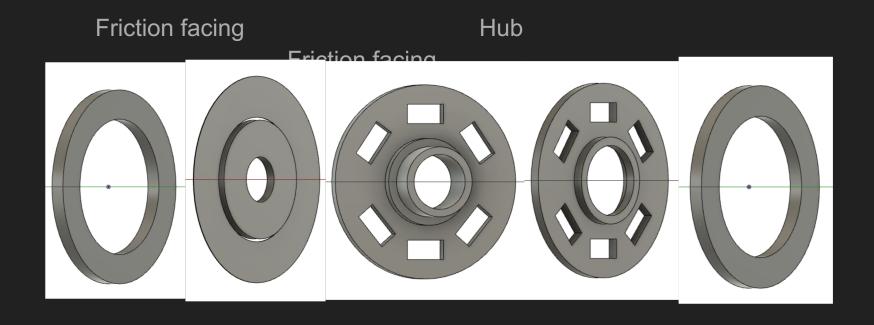
https://www.motorcyclespecs.co.za/Techinicale/Clutch

How does it all connect?



https://www.youtube.com/watch?v=agLa0A8GAfc

Comparison to Car Clutch -- Breakdown of the Clutch Disk



Clutch Plates

Option 1:

Small clutch, lots of plates (most common)

Steel Plates



nttps://motorcycleparts2u.com/vesrah-steel-clutch-plates-cs-419-971417-a

Option 2:

Large clutch, less plates

Friction Plates

Option 3:

Use different springs or bolts to increase pressure (rare)



https://motorcycleparts2u.com/barnett-complete-clutch-kit-brntkit-0716

Wet vs Dry Clutch

Wet

- Bathed in oil
 - Cools the clutch pack
- Easy to use
- Lasts longer
- Quieter
- Can take a lot of abuse
- Messier
- More common

Dry

- Avoids fluid drag
- More horsepower to rear wheel
- Cleaner oil
- Less clutch cooling
- More difficult to use
- Doesn't last as long
- Loud
- Used mostly in older models



THANK YOU!!!!!!

https://www.slideshare.net/ShirishGoel/clutch-66185801

https://www.youtube.com/watch?v=mxTSw3d5anE

Rest of links are on slides where information/pictures are presented