

Tomos

A3

Engines

A35

Chart

A55

How it works:

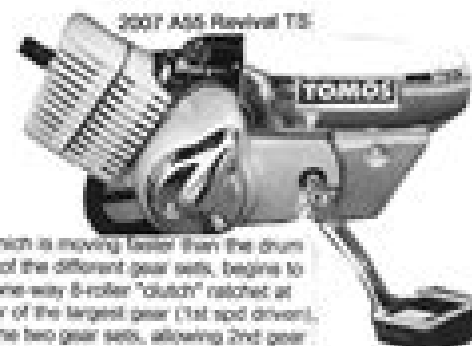
With the rear wheel stopped, all gears and clutch drum are also stopped. As the centrifugal 1st speed 3-shoe clutch, which is solid with the turning crankshaft, is held inward by its springs, in "neutral". As you give it gas, the rise in rpm throws the shoes outward against the clutch drum, which is solid with the rear wheel via the 1st gear set. This causes the bike to move forward and increase in speed. Above 10mph the 1st spd clutch stays solid with the double sided drum, meanwhile the centrifugal 2nd speed clutch, which is solid with the rear wheel via the 2nd speed gear set, is held in by its springs until the bike speed hits 15mph. As the 2nd speed



1992 A35 Cut-Away

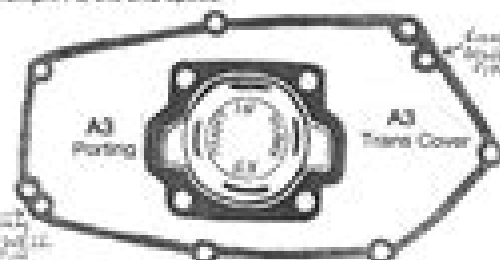


2008 A55 Streetmate R



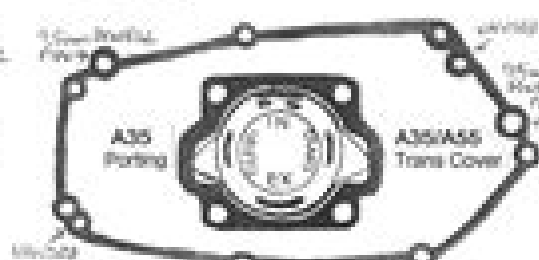
2007 A55 Revival TS

clutch, which is moving faster than the drum because of the different gear sets, begins to rub, the one-way 8-roller "clutch" ratcheted at the center of the largest gear (1st spd driven), unlocks the two gear sets, allowing 2nd gear to over-ride 1st, thus shifting into 2nd gear. A second one-way roller "clutch" ratcheted at the center of the clutch drum allows the bike to go in reverse freely.



A3 Porting

A3 Trans Cover



A35 Porting

A35/A55 Trans Cover



A55 Porting

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Compare all 3

Years & Type: 1976-1991, 49cc 2-stroke single, 38x43mm.
Transmission: 2-speed automatic oil bath transmission.
Pedals: Built in pedals for occasional human propulsion.
Kickstarter: External kickstarter and foot pegs was an option.
Gears: Thin gears, both helical cut for less whine.
Crankshaft: Thin crankshaft w/2-flat sides for 1st spd clutch.
Carburetor: Encarvi 12mm or Dellorto SHA 14/12 carburetor.
Intake Style: Platen port induction. Two transfer ports.
Cyl. & Cases: Cast iron cylinder, cases unpainted, black '84-
Rod Bearings: 10mm piston pin, brass bushing, needle bottom.
Ignition/Lites: Points/magneto, Ducati 6V '78-88, CEV 12V '88-91.
Spark Plug: Spark Plug 14mm x 1/2" = NGK B6HS

1992-2006, 49cc 2-stroke single 38x43mm.
2-speed automatic oil bath transmission.
Built in pedals for occasional human propulsion
or internal kickstarter and foot pegs (shown).
Thick gears, straight cut 1st for more torque.
Thick crankshaft with splines for 1st spd clutch.
Dellorto SHA 14/12, externally mounted '96-on.
Reed valve induction. 2 transfers + 2 boost ports.
Bigger cast iron cylinder, cases silver or black.
12mm piston pin, needle top, needle bottom.
Ishra points/mag 12V '92-95, CDI '96-, adjustable.
Spark Plug 14mm x 1/2" = NGK B6HS, BR6HS

2005-on, 49cc 2-stroke single 38x43mm.
2-speed automatic oil bath transmission.
Built in pedals for occasional human propulsion
or internal kickstarter and foot pegs (not shown).
Same transmission and crankshaft as A35.
Cases have starter mount & bigger transfer ports.
Dellorto PHV14 oval venturi externally mounted.
Piston port induction. Four nozzled transfer ports.
Aluminum nickel cylinder, cases unpainted.
Same. Meets EPA/CARB 2006- w/catalytic exhaust.
Same Ishra CDI but w/external pulser, fixed timing.
Spark Plug 14mm x 3/4" = NGK B6ES, BR6ES

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Kenneth BALL (G.I.Mech.E.)



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