

Triumph

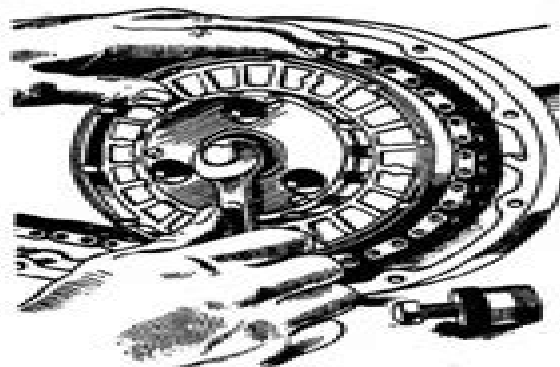
and then the lead can easily be removed.

5. Remove the rotor.
6. Remove the rotor key and distance piece.

7. Remove the clutch hub securing nut and cup.

NOTE: Machines prior to serial no. H49833 have a tab washer and a different cup washer, rather than the self-locking securing nut.

8. Screw the body of extractor no. Z13 into the clutch hub until it bottoms, then tighten the center bolt until the hub is released.



Removing the clutch housing

9. Assemble extractor no. Z151 and D662/3 on the engine sprocket and tighten its center bolt until the engine sprocket is released.

10. Withdraw the engine sprocket, clutch hub, and primary chain together.

11. Remove the transmission mainshaft key and check the oil seal for leakage.

INSPECTION

1. Inspect the clutch shock absorber for worn rubbers or punctures. They can be removed by prying them out, small rubbers first. Replace as necessary. When reassembling, apply thread-locking compound to the cover plate securing screws.

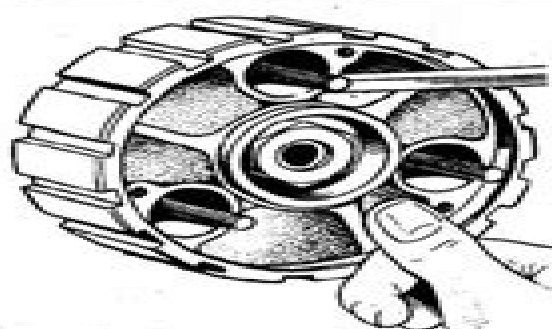
2. First thoroughly clean the primary chain then check it for wear by scribing two marks on a flat surface 12 in. apart, and centering two pivot pins at the scribe marks. Fully compressed, the chain link pivot should line up with the marks; fully stretched, it should not extend more than ¼ in. beyond the marks.

3. Check the fit between the shock absorber spider and the clutch hub splines. The spider should be a push fit on the clutch hub, with no radial movement.

4. Check the fit of the engine sprocket on the crankshaft in the same manner. There should be no radial movement.

5. Check the clutch hub bearing diameter, rollers, and clutch sprocket bearing. Replace any bearing rollers that are pitted or worn. See specifications.

6. Make sure the shock absorber spider is a good fit in the inner and outer



Installing clutch hub rubbers

retaining plates, and that the arms have not excessively scored the inner surface of the retaining plates.

ASSEMBLY

1. Grease the clutch hub and install the thrust washer and twenty of the correct rollers. Do not use ¼ in. x ¼ in. rollers.

2. Position the hub and press the shock absorber, complete with the three threaded pins, on the hub.

3. Install a new tapered distance collar behind the engine sprocket, with the taper toward the crankshaft main bearing and oil seal.

4. Install the transmission mainshaft key and tap the clutch hub onto its taper.

5. Lubricate the primary chain and lay it over the clutch sprocket.

6. Wrap the chain around the engine sprocket, then position the sprocket on the crankshaft.

7. Place clutch locking tool Z13 in the clutch plate housing, then install the cup washer and self-locking nut. Torque the nut to specifications.

NOTE: On machines before serial no. H49833, install the tab washer with the long tab in the hole in the shock absorber spider, install the securing nut and bend a tab to lock the nut.

8. Install the alternator rotor, making sure that the key or locating peg is correctly positioned.

9. Install the alternator stator. Put a 0.008 in. (0.2 mm) feeler gauge between each stator pole and the rotor. Turn over the engine to make sure that the rotor and stator do not touch.

Transmission Countershaft Sprocket

REMOVAL AND INSTALLATION

1. Disassemble the clutch and primary drive as previously described. Remove the sprocket cover.

2. Bend back the tab washer and, while holding the rear brake, remove the sprocket securing nut.

3. Slide off the final drive chain and remove the countershaft sprocket.

4. Make sure the oil seal is in good condition, then lubricate the ground boss

of the new sprocket and position it on the transmission mainshaft.

5. Replace the tab washer, screw on the securing nut finger-tight, then, with the chain in place, tighten the nut to torque specifications.

6. Oil the bushing that protrudes from the mainshaft high gear and install the sprocket cover with a new paper gasket.

7. The remainder of installation is a reversal of the removal procedure.

Clutch and Shifter Operating Mechanisms

DISASSEMBLY

1. Remove the right exhaust header pipe and footrest.

2. Drain the gearbox oil.

3. Disconnect the clutch cable from the actuating lever.

4. Remove the two nuts and four recessed screws that secure the gearbox outer cover. Remove the kick-starter.

5. Hold the gearshift lever in one hand, then tap the cover with a soft-faced mallet until it is free to be removed.

6. Unscrew the two nuts inside the gearbox outer cover and remove the shifter return springs complete with the thrust buttons and distance pieces.



Clutch operating mechanism

7. Unscrew the countersunk screw that secures the clutch operating mechanism and withdraw the assembly.

8. Remove the shifter lever pinch bolt, remove the lever, and then withdraw the shaft from the cover.

9. Remove the cotter pin from the clutch operating shaft. This will release the clutch operating balls.

10. Remove the two cotter pins and disconnect the plungers and springs from the shifter quadrant.

11. If the shifter spindle bushing requires replacement, heat the outer cover to 100°C and drive it out with a suitable, shouldered drift. Drive in the new bushing before the cover has a chance to cool.



Clutch mechanism installed

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web desire maximum current rating of bus bar 630amp fault current i sc 50ka fault duration t 1sec the operating temperature rises for the busbar is operating temperature of bus bar θ 85 c final temperature of bus bar during fault θ 1 185 c temperature rise of bus bar bar during fault θ t θ 1 θ 100 c ambient

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web guide provides the calculation tools for each bus type based on these calculations the engineer can specify the bus size forces acting on the bus structure number of mounting structures required and hardware requirements keywords ampacity bus support corona electromagnetic finite element forces ice mounting

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web circuit board pcb this board is then placed into a cutout hole or slot located in the center of a bus bar figure 1 shows the

alternate approach using two drv425 devices when a cutout hole or slot is placed in the center of the bus bar the current is split in two equal parts each side of the cutout will generate

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web knowing required ampacity determine possible bus bar dimensions from this table then check the ampacity table to verify that size selected has the necessary ampacity example assume that required ampacity is 185 amps at 30 c rise this table indicates that 1 16 x 1 in size would probably be adequate this is confirmed by the ampacity

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web cross sectional area and the length determine bus bar conductor size cross sectional area 4 is equal to conductor thickness t multiplied by conductor width w a value of approximately 400 circular mils per ampere is a traditional basis for

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web quick busbar selector knowing the ampacity designers and estimators can get the approximate bus bar size ampacity of the bus bar selected must then be verified by checking table 1 required ampacity range amp busbar dimensions in 30 c rise

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web nov 24 2019 busbar can be very large or small busbar basically how big and how thick it depends on the current ampere of the busbar one thing to keep in mind busbar height and width are very important in calculations measurements in millimeters must be calculated in millimeters bus bar calculations

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