MOUNTING CLEARANCE CHECKING AND ADJUSTING FRONT

- Slide the right side gaiter back to give access to the adjuster and plastic washer
- Push or lever the engine to the right until all slack in the Isolastic mounting has been taken up. Holding the engine unit in this position, use feeler gauges to measure the clearance between the plastic washer and bright plated adjuster collar.
- If the clearance exceeds 0.010 in (.25 mm) the unit should be readjusted.
- Following the procedure defined in Technical slide spring clips clear of holes in adjuster Data: Slack of the main mounting central bolt, and

Andover Norton

Isolastic Engine Mountings **How to Service & Adjust**

using the original factory drawings. Our products are mostliterature for **NORTON** and **TRIUMPH** motorcycles We are the only supplier of Commando & Dominator parts offer Norton Rotary spares, factory service manuals and ly made in England and to original specification. We also



ADJUSTING ENGINE MOUNTINGS

Mark III models must be supported by a stand or: Prior to checking adjustment or dismantling not

screw up until there is no clearance. into a convenient hole in the adjusting collar and

- Back-off adjuster moving 1½ holes only (to unscrew), replace spring clip and gaiter.
- main bolt to 30 lbs./ft. (4.15 Kg/m

(0·152 mm) as

main bolt to 30 lbs./ft. (4-15 Kg/m)

Back-off adjuster, moving 1½ holes only

(10

replace spring clips and gaiter

Insert suitable size tonimy bar (spoke or similar) Following the procedure defined in Technical Data: Stack off the main mounting central bolt, and slide spring clip clear of holes in adjuster.

into a convenient hole in the adjusting collar and

up until there is no clearance.

- (0·152 mm) as rec

DISMANTLING AND RENEWAL ISOLASTIC ENGINE MOUNTINGS

the fully bonded rubbers and provision to take up any Routine checking of clearances will present little difficulty with the new adjustable mountings and with nents will ever be required. wear of the plastic washers, it is unlikely that replace

However, where a mounting has seen long service it may be desirable to clean out the unit and/or examine the plastic westers, set for uneven wear or dainage. In this event the complete unit will have to be removed to

It is no longer possible to extract the end caps (as revious practice) after removal of the centre bolt or

rear unit can only be dismantled after a major stind-down of the primary transmission as described in Section C13/14.

MOUNTING CLEARANCE CHECKING AND ADJUSTING REAR

1 Slide the left side gaiter back to give access to the

SECTION F14

Push the rear wheel to the left firmly and the the clearance between the plastic washer and measure washer and DISMANTLING FRONT MOUNTING

In order to withdraw the mounting bolt completely it may be necessary to detach the right hand exhaust pipe as described in Section 19.

If the clearance exceeds 0.010 in (.25 mm)

should be readjusted

bright plated adjusting collar.

- the left hand side of the central mounting bolt Remove the self locking nut and plain washer from
- Align the flats on the bolt head to clear the timing cover as the bolt is withdrawn
- the right hand side easing and supporting the weight of the engine and avoiding damage to the Using a soft metal drift, gently drive the bolt out to
- to the crankcase. Lift the mounting away Remove the two 3" dia. bolts securing the plates
- Remove gaiters both ends
- vice if necessary Slide back the spring clip on the adjusting end and with a spoke or similar tommy bar unscrew and remove the end cap, holding the assembly in a
- is located to the centre sleeve by a grub screw The opposite (fixed) end cap on the left hand side facing ring can now be removed and cleaned or replaced as required.

The plastic washer on the right hand end and the

allow examination and cleaning of the washer and the inner sleeve with bonded rubbers can I withdrawn from the mounting tube sufficiently this end, unless the washer needs replacing, and See illustration F21. It is not essential to remove

ditional side pressure, applied by inserting excessive force, the operation being eased by use of a rubber lubricant applied to the bore. Ad-If the entire unit is to be dismantled it should be suitable sized bar into the central slee possible to drive the centre sleeve out without extraction. The front mounting's are a lighter

> 9 The engine mounting, end-caps, facing rings and plastic washers can now be thoroughly cleaned and examined. Remove all dirt and corrosion and where excessive wear, uneven thickness or damage is evident, replacement is advised. It will be necessary to unlock the gath screw and remove the fixed and cap if new items are needed on the left hand end.

in the unlikely event of deterioration of the rubbers a replacement bonded unit will be required. Hubbers are no longer available separately.

REASSEMBLY: FRONT MOUNTING

- the mounting securely in a vice, left hand
- fixed end and left hand rubber if found OK, and dismantled intact, otherwise new components locked-up securely. will be assembled in the correct order with the end-cap flush with the sleeve and the grub screw Slightly grease the contact faces of the facing ring, plastic washer, and fixed (left hand) end-cap. These items will still be sandwiched between the (Using a silicone grease such as Releasil No. 7)
- Paint the edges of the large rubbers with rubber ubricant and squeeze the right hand rubber into the mounting tube. (It has been found quite feasible to assemble the new rubber units without but where this is available it should still simplify entry into the tube). Work the unit through the mounting tube until the fixed end-cap is fitting recourse to the original tapered guide body 063971.
- Replace the left hand gaiter
- right hand side uppermost ove and invert the in the vice
- Using a silicone grease such as Releasil No. 7 lightly grease the contact faces of the facing ring plastic washer (both sides) and adjusting (screwed) Insert spoke or similar tommy bar in a

hole and screw down until the flange pinches the

The mounting is now ready for re-

Replace the right hand gaiter

- N.B. Adjustment is finalised with the unit the crankcase
- Grease outer loosely in position with the bottom stud. mounting to the lower crankcase lug and hold faces lightly and offer
- case lug and fit the top stud. Pivot the mounting up to engage with the crank
- (2-07 Kg/m) torque Secure both top and bottom stud nuts to 25 ft./lbs
- Fit the main mounting bolt from the right side. It will be necessary to align a flat on the hexagon to pass the timing case.
- This is facilitated by levering the power unit in the frame, supporting the weight of the engine to relieve the load on the bolt.
- Ensure that the gaiters are still located properly over the mounting, using a small screwdriver to

and nut. Do not tighten at this stage Push the mounting bolt fully home, fit the washer

- With the main assist this operation if necessary unting nut still slack, slide
- Back off the adjuster, moving (unscrewing) 1½ holes only, replacing spring clip. This will give 0.006 in/0-152 mm as recommended. end-cap. Insert suitable sized tommy bar (a spoke or similar) into a convenient hole and screw up spring clip away from the holes in the adjustable linger-tight", taking up all clearance
- Tighten the main bolt to 30 lbs./ft. (4.15Kg/m torque.

ng: Engineering

always be fitted as replacements. Note: Mark III model Commandos have been with bronze-loaded PTFE plastic washers (brow wear and deterioration; therefore, we recon washers fitted to earlier models. These washers colour) in place of the cream coloured polyure

ISOLASTIC ENGINE MOUNTINGS

the adjustable end cap, which is located on the requires no special tools. A spoke or suitable sma fling in service. Adjustment is straight-forward simplifying assembly procedure and eliminating mounting units employing fully bonded rubber by end cap located by a grub-screw lock mounting. The opposite side in each case has hand side at the front and the left hand side of th The Mark III Commando Isolastic Suspe screwdriver is all that is required as a tommy bar t corporates redesigned, adjustable front

with the centre stand in use. Proceed as follows On such models the mountings would be under to stand folded. This is necessary due to the stand box placed below the main frame tubes with the nounted direct onto the engine plates on these SECTION F16 ATTENTION TO REAR MOUNTING After considerable usage it may be expected that

attention as in Section F15 the power unit mut removed from the frame as described in Section However, the need for attention to these fitting comparatively rare, and can usually be left untirear mounting end groups have suffered wear deterioration due to corrosion. If the unit is to repower unit has to be dismantled for a major overh

rear mounting is accessible, and although the mou tube is smaller in diameter and longer, the basic di-is similar in every aspect to the front layout, excep opposite — and adjustment and an easier fit or rubbers in the bore — needing no special too With the power unit removed as described in F

The procedure for dismantling, cleaning, lubric and assembly are the same as for the front.

The adjustment drill is identical – lock up lighti-back-off' 1½ holes after reassembly in the frame rear mounting stud is also torqued up to 30 lt (4·15 kg/m). Refer to F15 for details.



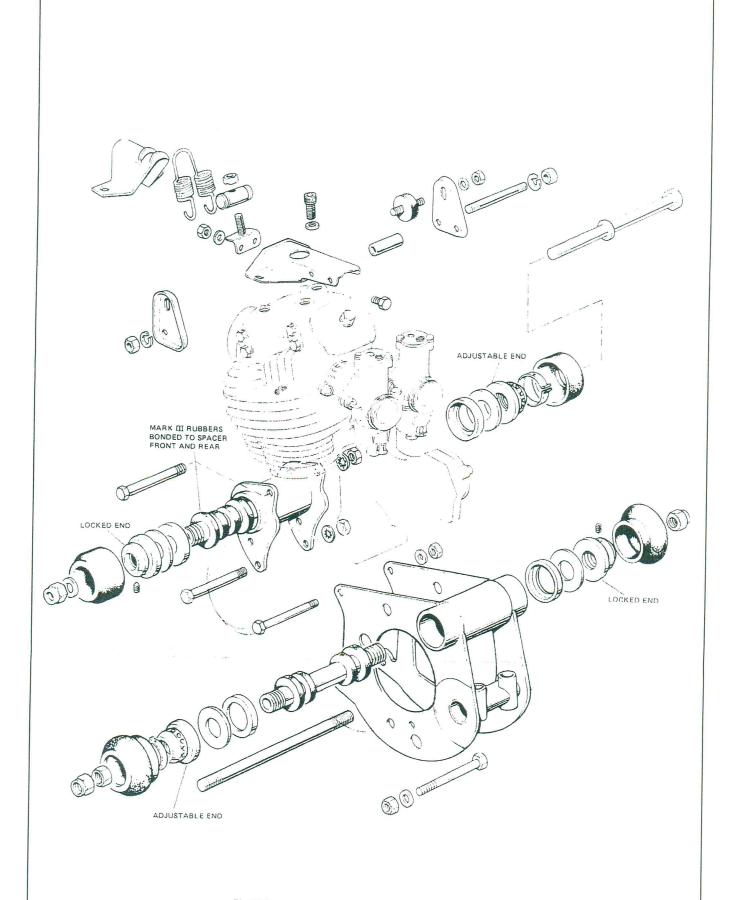
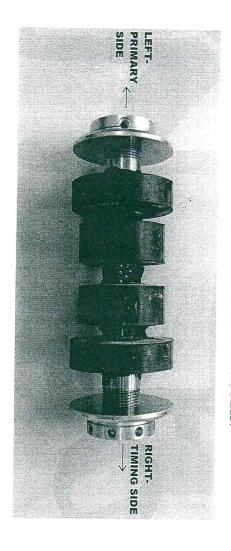


Fig F14 Isolastic mountings exploded view

LENGTH ENGINE MOUNT TUBE USED ON PRE-MK3 MODELS. AS SHOWN BELOW TO MAINTAIN ALIGNMENT OF UNEQUAL ENSURE ORIENTATION OF ADJUSTER AND ABUTMENT IS 06.7337



with compliments



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