

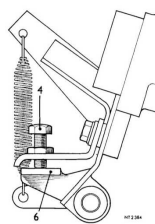
THROTTLE BUTTERFLIES
 ***(Up to Engine No. CP 77699E)**
 — Check and adjust

Check

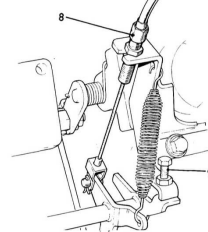
1. Start the engine and warm to normal operating temperature.
2. Remove the air intake manifold.
3. Ensure that the cold start lever on the metering unit is back against its stop and that there is clearance between the cam and adjusting screw on the manifold linkage.
4. Hold a Crypton synchro check meter against number six intake and open the butterfly by turning the throttle adjusting screw clockwise sufficiently for a reading to register on the meter scale (eg 3).**



5. With the engine revolutions maintained compare the readings from number three and one intakes with that of number six.
6. If the readings are all the same no adjustment is required and the throttle adjusting screw should be reset and locked so that it just touches the countershaft operating lever.

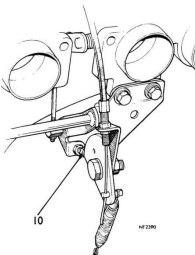


7. Should adjustment of the butterflies be necessary, maintain the engine at normal operating temperature, check as in instruction 3 and with the air intake manifold removed proceed as follows:-



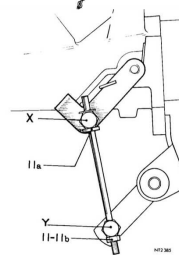
8. Slacken the throttle cable adjuster so that there is no tension in the cable.

9. Turn the throttle adjusting screw anti-clockwise so that it is well clear of the countershaft operating lever.



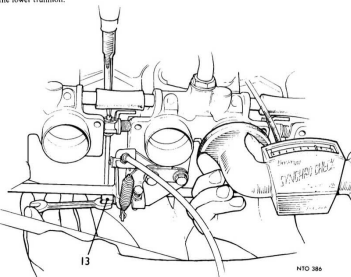
10. Slacken the cold start adjusting screw clockwise so that the screw head is well clear of the cam.

11. Release the lock nut of the rear vertical link and
 - a. adjust the link so that the brazed-on washer just touches the butterfly shaft trunion.
 - b. Lock the nut against the lower trunion.



12. Start the engine and again hold the crypton synchro check meter against number six intake and by means of the throttle adjusting screw (turning clockwise) open the intake butterfly thereby increasing the engine revolutions until a convenient reading (say 3), registers on the meter scale.

13. Slacken the centre vertical link lock-nut and hold the meter against number three intake and by means of the centre vertical link adjust the butterflies of numbers three and four intakes so that the same reading as in instruction 12 is recorded. Lock the nut against the lower trunion.

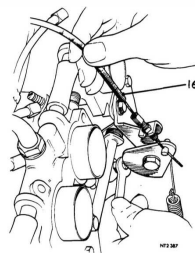


14. Release the locknut on the front vertical link and hold the meter against number one intake and adjust the link until the meter reading registers the same as in instructions 12 and 13. Lock the nut against the lower trunion.

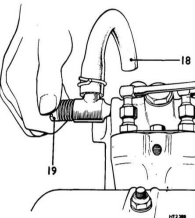
15. Re-check the metering readings on numbers three and six intakes and re-adjust if necessary.

16. Adjust the fast idles speed by pulling the cold start cable out of the adjuster with the cam turned to its maximum lift position. Turn the adjusting screw against the cam until the engine revolutions maintain a steady 1500 to 1800 r.p.m.

NOTE: Do not pull the cold start cable with the control knob on the control panel since it will also operate the excess fuel lever on the metering unit thereby increasing the quantity of fuel delivered to the injectors.



17. Turn the throttle adjusting screw so that it just touches the countershaft operating lever and secure with the lock nut. See instruction 6.



18. As a check to ensure that all the butterflies are fully closed hold a finger over the end of the air valve pipe so that the engine stalls.

19. Start the engine and by means of the air valve adjusting screw regulate the air bleed to give an idling speed of 750 to 800 r.p.m.

20. Adjust the throttle and cold start cables to remove excessive slack and secure with the locknuts.

21. Stop the engine and refit the air intake manifold. 19.70.01.

Data

Idling speed 750 to 800 r.p.m.

Fast idling speed 1500 to 1800 r.p.m.