



Adjusting the Gear Shift Mechanism

T-180

NOTE: Ensure the gear change mechanism is clean and well lubricated as operation of the lawn tractor in dirty, dusty or dry environments can clog the actuators and make gear change difficult. We recommend regular cleaning and lubrication of your mower as detailed in the owners manual.

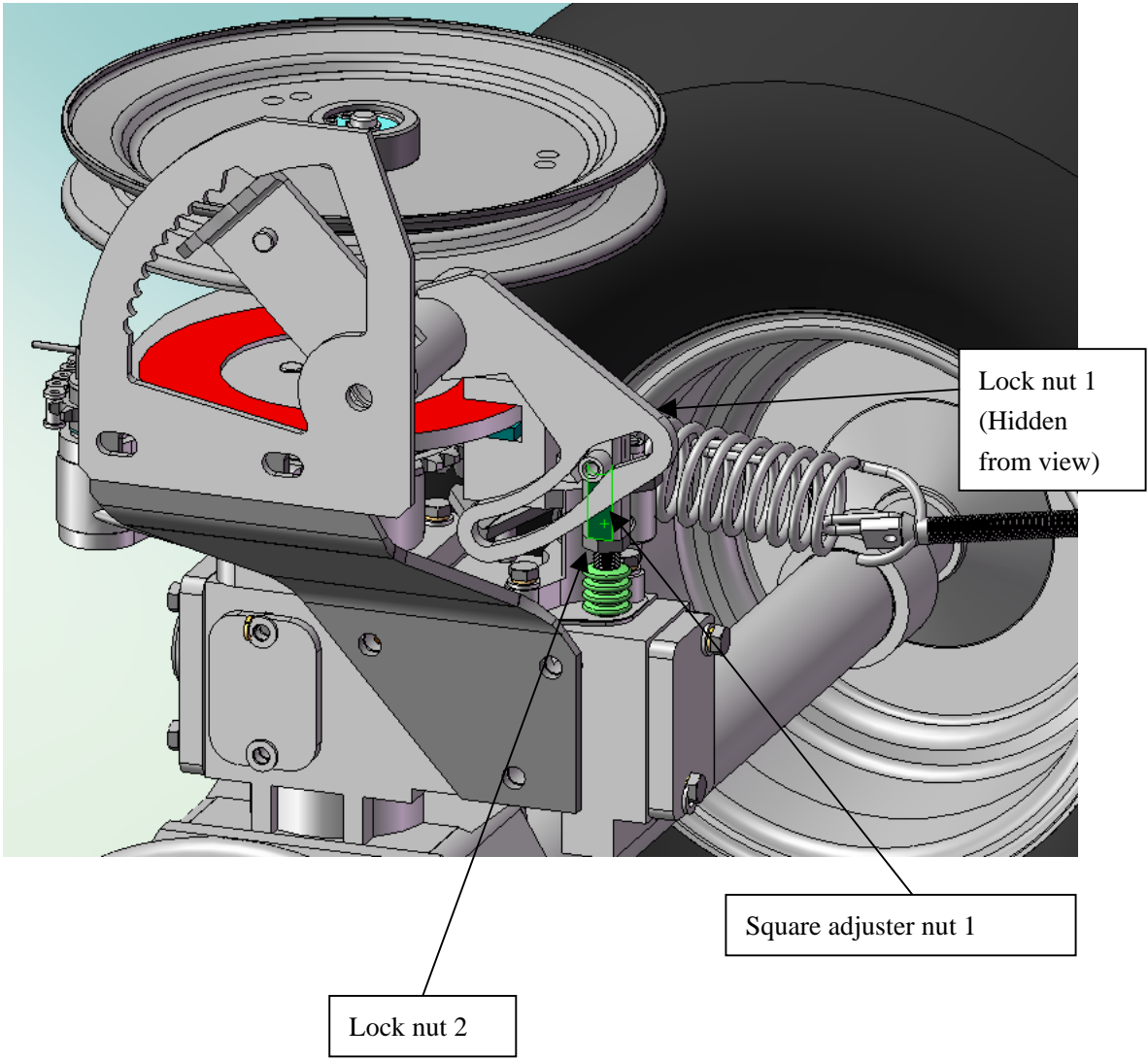
STEP 1.

Elevate the rear wheels and place the machine on a secure stand. Remove the key from the ignition and preferably disconnect the battery so the mower engine cannot be started.

Without the engine running move the gear lever into the drive position. Manually rotate the belt pulley by hand make sure the tractor has engaged forward gear . Engaging the drive lifts the square nut (1) to its highest position which engages the drive.

STEP 2.

Loosen the lock nut 1 and 2 then adjust the position of the square nut (1) by rotating the 2 lock nuts up or down to achieve the correct position when there is no gap between the driver and actuator. (the two planes must parallel each other as shown in the enlarged figure 2). After adjusting as necessary re tighten the 2 locknuts.



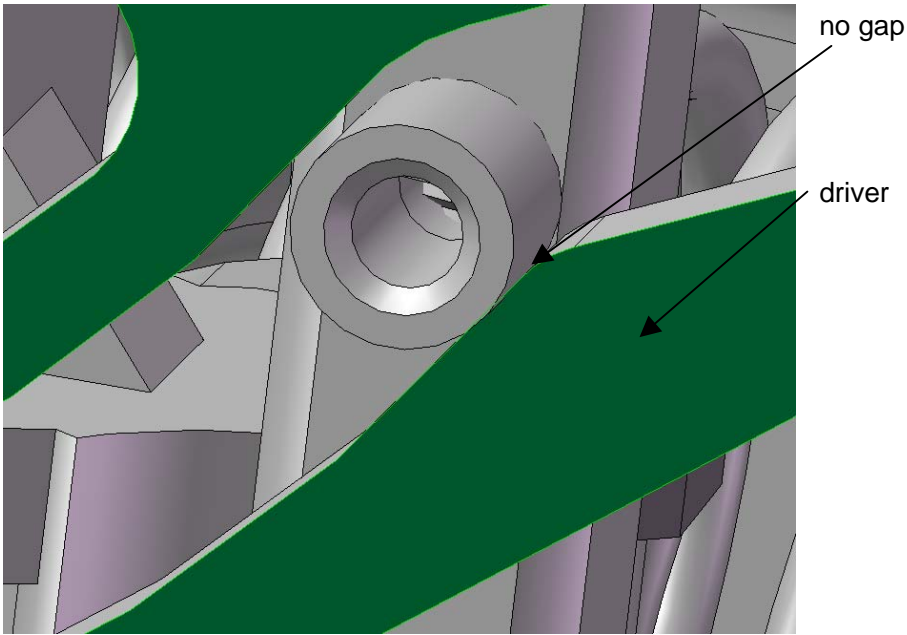
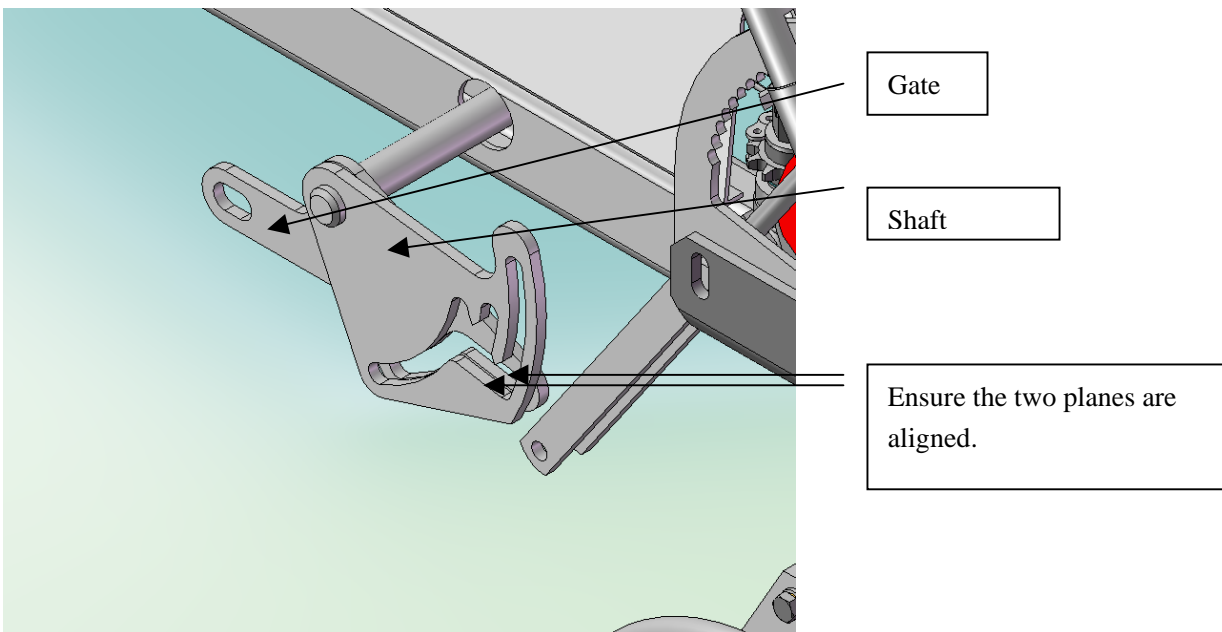


Figure 2

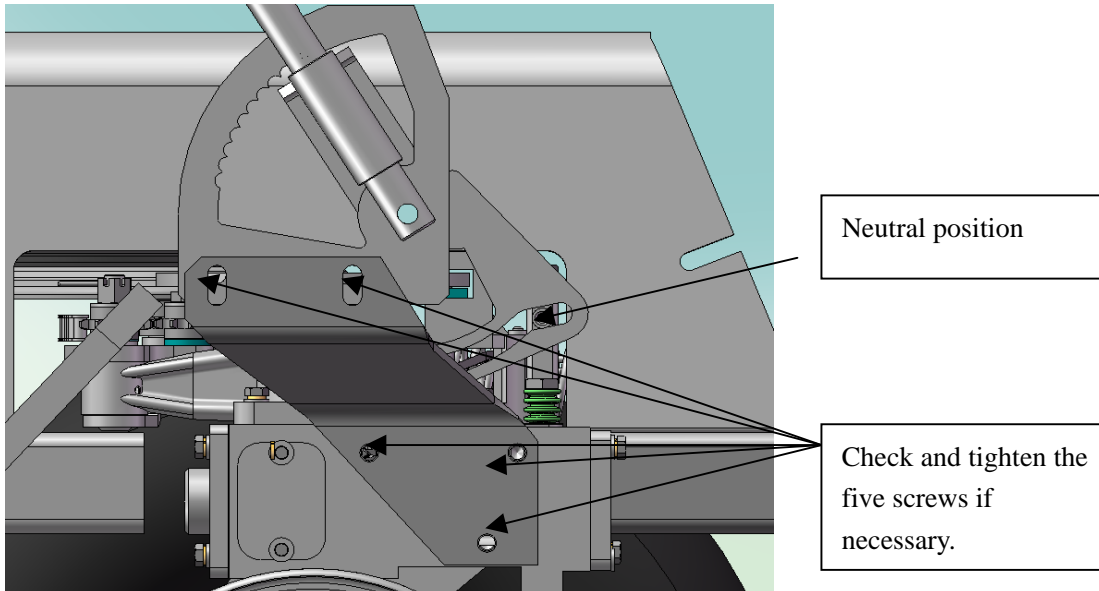
STEP 3.

Depress the parking brake and lock. Make sure the two planes are aligned as shown below. If not aligned loosen the retaining bolt, adjust and then re tighten the screw M10 (not shown) to fix the GATE position.



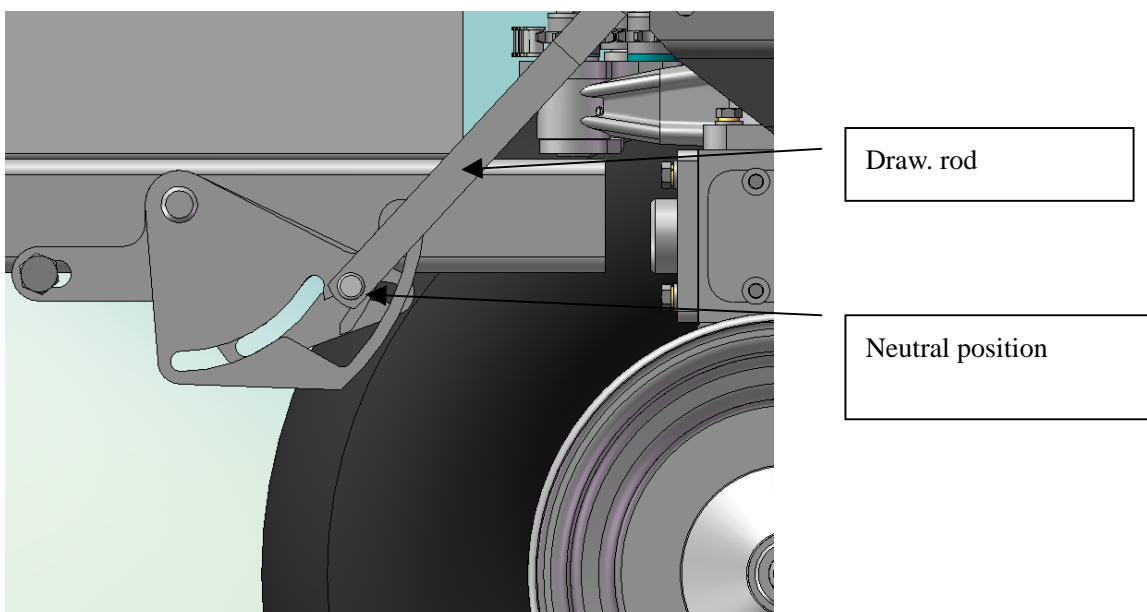
STEP 4.

Move the gear change lever to the neutral position. To check drive is in neutral attempt to turn the drive belt pulley. This should rotate freely if the gear is actually in neutral. Make sure the 5 screws (indicated below) are tight. If loose this will affect gear change operation.



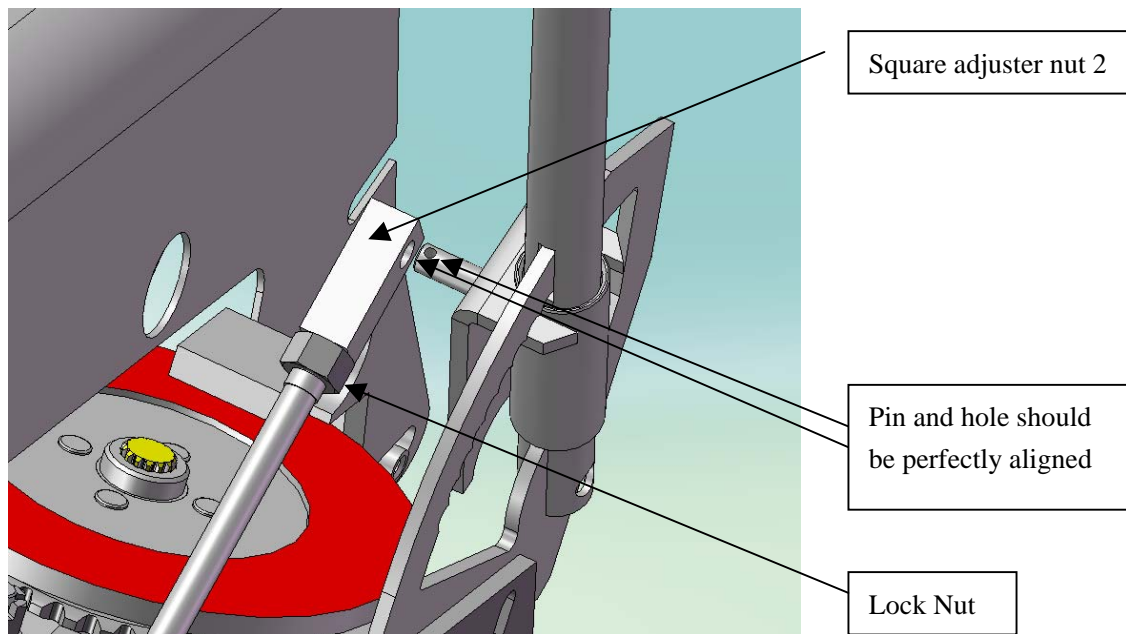
STEP 5.

Keep the draw rod and pin in neutral position and release the parking brake.



STEP 6.

Remove the pin from the control lever and remove the shaft from the pin. Loosen the lock nut and then adjust the square nut (2) by rotating it an appropriate number of turns so that pin and hole are exactly aligned. This is very important for correct operation so CAREFULLY adjust until the alignment is exact. (Note) you may find it easier to adjust the shaft length using the identical adjuster at the opposite end of the shaft



STEP 7.

Confirm all adjustments have been made correctly then re check all nuts, screws and pins are in place and tightened correctly. Test drive the tractor and if the gear changing is not smooth recheck settings as further adjustment may be required.