

The following information is for TQB Brands Borum Air/Hydraulic Truck Jack Air Motor Symptoms & Solutions models: BTJ60TA, BTJ1025TA, BTJ1530TA, BTJ1530TAM, BTJ2550TA, BTJ5080TA, BTJ102550TA, BTJ204060TA

Symptoms & Solutions Guide

1. TQB Brands Borum Truck Jacks use a compressed air fed motor to drive a pump allowing raising of the lift ram.
2. The air motor pump assembly uses a reciprocating piston and a two-way valve system to draw hydraulic oil from the reservoir on the upward "suction stroke" of the air motor piston, and forces oil into the lift ram assembly on the downward "compression stroke".
3. High-volume, high-pressure air is forced through the air motor to cause the piston to cycle from the top of the barrel to the bottom and return to rapidly repeat the cycle. If left unlubricated the air flow will flush out the lubrication applied during the factory assembly process.
4. Due to the high cycle rate of the air motor piston, friction can develop through the function described above. Therefore, it is important to regularly oil the air motor to ensure long life.
5. In the event that the air motor has not been regularly lubricated the piston seals and piston control valve can be affected by the lack of lubrication and the piston can stall.
6. The symptom for the stalling can be described as 'air gushing from the exhaust' on application of the raise position of the control valve [bypassing], but no lift is seen in the lift ram.
7. When this occurs, often a simple reapplication of lubrication can return the air motor to operating as per manufacturers specifications.
8. However, often when the jack has been operated without lubrication for extended periods. The seals working in a high friction condition can prematurely wear away. The sealing surfaces of the piston seals, and the piston control valve seal causing an air bypass as described in section 7 to occur. When this occurs a replacement piston assembly or complete air motor is often the only option to returning the jack to working condition.

Lubrication Instruction

Air motors require a minimum of 10 to 20ml of a suitable lubricant such as SAE32 Grade Hydraulic Oil or Air Tool Lubricant at weekly intervals dependent on usage. Where there is daily/constant use, lubrication should occur more frequently.

1. Disconnect the Raise/Lower control valve from the workshop air supply.
2. Holding the control valve open in the raise position proceed to pour 10 to 20ml of the recommended lubricant into the air coupler.
3. Hold the Raise/Lower control valve in the raise position open for two to three minutes to allow the oil to flow through the valve.
4. Reconnect the workshop air supply and hold the Raise/Lower valve in the raised position to allow the air to force the lubricant into the air motor.
5. Rapidly open and close the Raise/Lower control valve to the raised position to work the lubricant into the air motor.

