



J36H90H/B46H11H/JH90C/BH11C Walk-Behind Trowels

Low Speed Kit Installation Instructions

The following instructions are intended to assist the user with installation of the Low Speed Kit on a J36H90H, B46H11H, JH90C, or BH11C walk-behind trowel. This conversion will change the trowel's performance characteristics from a high speed/low torque setting—ideal for final finishing—to a low speed/high torque setting that is suitable for floating applications. Please read all assembly instructions before installing the kit.

REQUIRED TOOLS

- Ratchet/socket
- Hammer
- Flat-blade screwdriver
- Allen wrench
- Straightedge

PARTS

Verify that all parts are accounted for. See Figure 1 and Table 1 below.

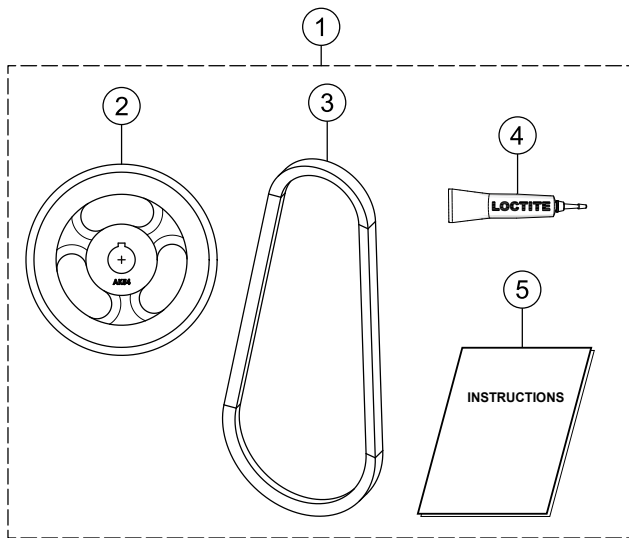


Figure 1. Low Speed Kit

Table 1. Low Speed Kit				
Item	Part No.	Description	Qty.	Remarks
1	LOWSPEEDKITJB	Low Speed Kit	1	Includes items 2-4
2	21140	Pulley AK54 x 3/4	1	
3	0152 3	V-Belt, A28	1	
4	1477	Loctite 242 Blue .5cc	1	
5	22585	Low Speed Kit Instruction Sheet JB	1	

WORK SAFELY!

Only a **qualified service technician** with proper training should perform this installation. Follow all shop safety rules when performing this installation.

PREPARATION

1. Make sure the trowel is turned **OFF** and the engine is cool.
2. Place the trowel in an area free of dirt and debris. Make sure it is on secure, level ground.

PROCEDURE

V-Belt Removal

1. Using a flat-blade screwdriver, remove the 3 retaining screws securing the V-belt cover (Figure 2) to the frame.

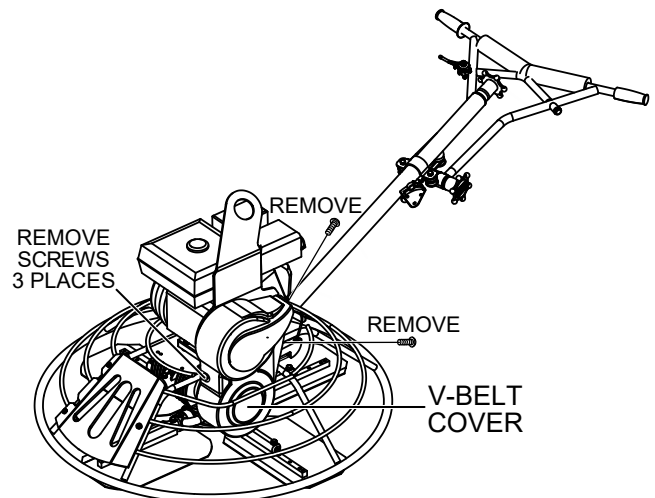


Figure 2. Remove V-Belt Cover

- Remove the existing V-belt (Figure 3). Store the V-belt in a clean, dry location where it will not be damaged.

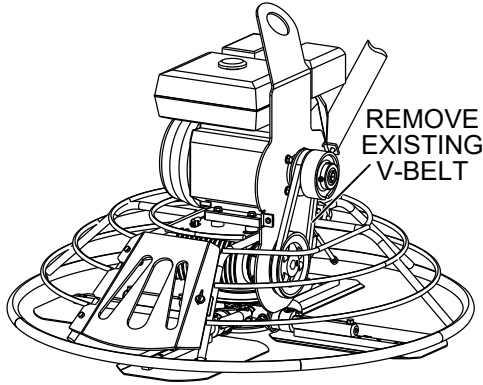


Figure 3. Remove V-Belt

Lower Pulley Removal

- Remove the set screws (Figure 4) securing the lower pulley to the gearbox shaft. Set the set screws aside for later.

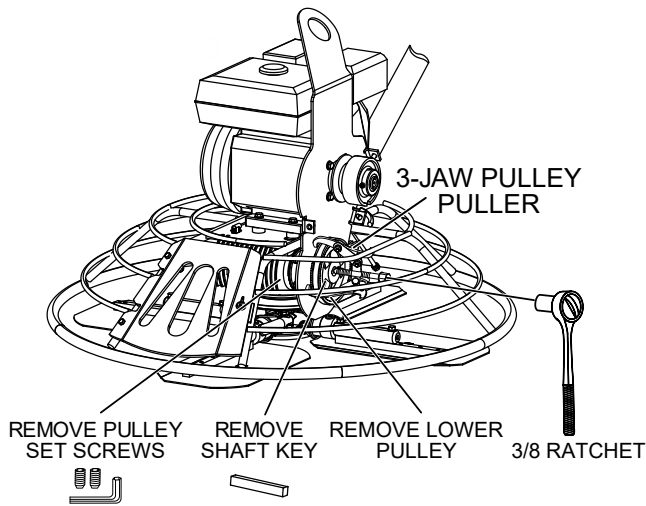


Figure 4. Remove Lower Pulley

- Remove the lower pulley (Figure 4) from the engine shaft. A 3-jaw puller may be required. Store the pulley in a clean, dry location where it will not be damaged.

New Lower Pulley Installation

- Insert the locking key into the engine shaft keyway (Figure 5).

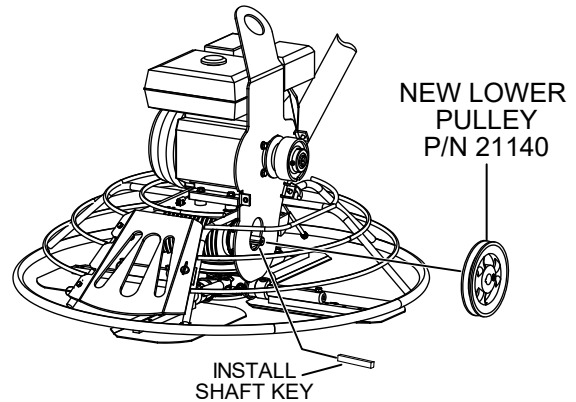


Figure 5. Install New Lower Pulley

- Place the new lower pulley (P/N 21140) onto the gearbox shaft.

New V-Belt Installation

- Install the new V-belt (P/N 0152 3) by placing it over the upper pulley and rotating the lower pulley (P/N 21140) until the V-belt slips into the lower pulley groove. See Figure 6.

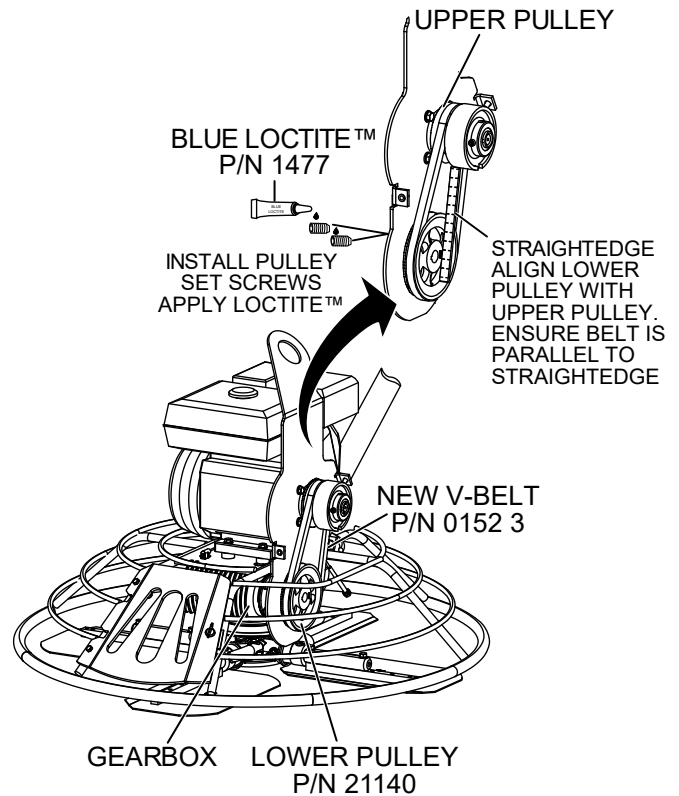


Figure 6. Install New V-Belt

- Using a straightedge, align the lower pulley (P/N 21140) with the upper pulley. Verify that the V-belt (P/N 0152 3) is parallel to the straightedge. See Figure 6.
- Once the pulleys are aligned correctly, apply Loctite® Blue 242™ (P/N 1477) to the lower pulley set screws.
- Insert the set screws into the lower pulley housing and tighten them securely.

V-Belt Tension Adjustment (Models JH90C/BH11C Only)

The following section describes how to readjust V-belt tension on trowel models JH90C and BH11C **only**.

If installing the Low Speed Kit on a J36H90H or B46H11H trowel, skip this section and proceed to the V-Belt Cover Installation section.

- Remove all set screws from the adjustable clutch sheave (Figure 7). Set the set screws aside for later.

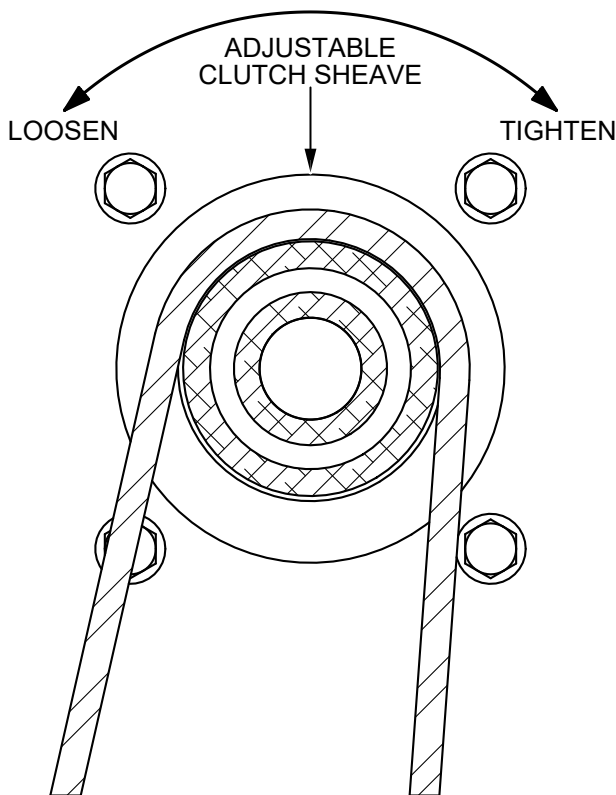


Figure 7. Adjust V-Belt Tension

- Adjust the adjustable clutch sheave (Figure 7) until the belt tension is within 5 to 8 pounds of deflection force with a belt deflection distance of .125 inches. This should be between 1/4 to 3/4 of a full rotation from flush, making sure that the flats are aligned with the set screws. A tension reading closer to 5 pounds of deflection force is preferred for ease of assembly.
- Apply Loctite® Blue 242™ (P/N 1477) to the adjustable sheave set screws.
- With the set screw holes in the adjustable sheave aligned with the flats, reinstall the set screws and tighten them securely.

NOTICE

Each set screw must align with a rib on the back friction plate (Figure 8). This will make the set screw axially perpendicular to its corresponding flat.

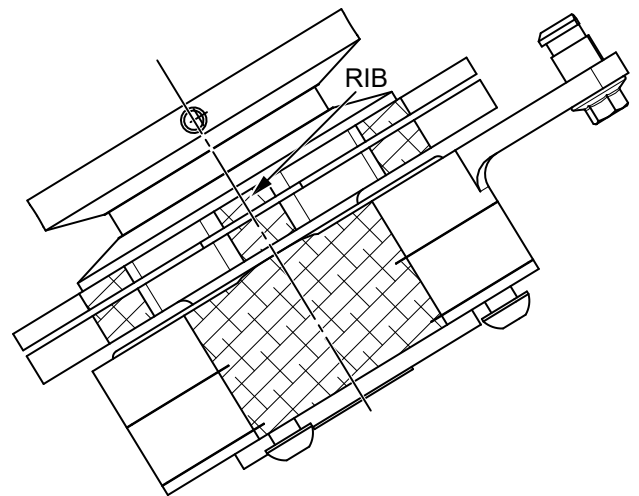


Figure 8. Set Screw Alignment

V-Belt Cover Installation

Reinstall the V-belt cover using the 3 retaining screws that were removed in Step 1.

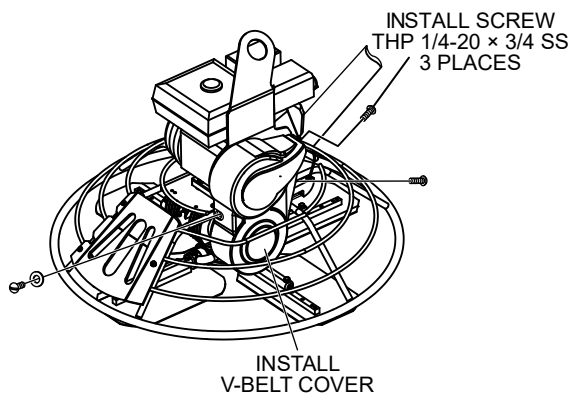


Figure 9. Install V-Belt Cover

TESTING

1. Start the trowel according to the starting procedure found in the trowel operation manual. Verify that there is no gearbox engagement at idle (low speed).
2. If gearbox engagement occurs, check the alignment of the lower pulley (P/N 21140).
3. Verify that the V-belt (P/N 0152 3) does not emit smoke or a screeching sound while the trowel is in operation. If either of these conditions occurs, check the alignment of the V-belt and lower pulley (P/N 21140).

NOTICE

Incorrect V-belt/pulley alignment can cause premature wear of the V-belt. **ALWAYS** make sure the V-belt and lower pulley have been aligned correctly.



J36H90H/B46H11H/JH90C/BH11C Walk-Behind Trowels

Low Speed Kit Installation Instructions

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL
NUMBER ON-HAND WHEN CALLING

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