

Head assembly: setting arrow orientation

Purpose. Reassemble the head after service so the alignment arrows are correctly oriented and the assembly pulls up square when tightened.

Scope. Covers removal of the plate through final tightening of the two bolts. Does not cover the service work performed while the plate is off.

Source. Recording 7VJK0Z, 1 minute 21 seconds, transcribed with timestamps. 9 steps, 9 frames, 3 open questions.

PROCEDURE



frame at 0:00

- 1 Flip the piece over and unscrew the two nuts.**



0:00



frame at 0:12

- 2 Lift the plate off, leaving the washers in place.**

KEY POINT Keep the washers on the bolts as the plate comes off.
REASON Washers that fall out get lost or reinstalled in the wrong order.



0:12



frame at 0:14

- 3 Flip the piece back over and pass the two bolts through.**



0:14



frame at 0:19

- 4 Set the arrows facing directly out in both directions.**

KEY POINT The orientation of the arrows is the critical detail of this procedure.
REASON The arrow orientation is what pulls the assembly into alignment when it is tightened. Wrong orientation and it will not pull up square.



0:19



frame at 0:30

- 5 Hold the arrows in position and flip the assembly over.**

KEY POINT Keep a hand on the arrows through the flip so they cannot rotate.
REASON They rotate freely until the nuts are on, and nothing shows you they moved.



0:30



frame at 0:37

- 6 Set the bar on top, replace the crush washers, and screw on the nuts.**



0:37



frame at 0:56

7 Take the nuts to hand tight.**KEY POINT** Hand tight only at this stage. Do not go to final tightness yet.**REASON** You still have to verify the arrows, and you cannot correct them once tight.

0:56



frame at 1:05

8 Check that the arrows are still in the correct orientation.**KEY POINT** Verify before final tightening, not after.**REASON** This is the last point where a rotated arrow is still cheap to fix.

1:05



frame at 1:07

9 Tighten the two bolts down.**KEY POINT** See open question 1. The torque value was not stated in the recording.

1:07

QUESTIONS AND ANSWERS

The system asked these because the recording did not show or state them. Nothing was guessed. Any question still unanswered blocks signing.

1. SYSTEM ASKED

Final torque for the two bolts in step 9. The recording says only "tighten them down sufficiently." A value and a tolerance are required.

UNANSWERED · BLOCKS SIGNING

2. SYSTEM ASKED

Part names. The recording says "this plate," "this bar," and "these arrows." The real part numbers are needed for step 2 and step 6.

J. EGGETT ANSWERED · 14 AUG 11:09

Plate is 40-118. Bar is 40-206.

3. SYSTEM ASKED

A rubber mallet and a bottle of Loctite 263 are visible on the bench in frame but are never used or mentioned. Are they part of this procedure?

J. EGGETT ANSWERED · 14 AUG 11:10

Neither is used in this job. They were left on the bench from the previous operation.

SIGNATURE

Type your name to sign

Unsigned. Your typed name is your signature on this procedure.

BLOCKED: resolve open question 1 (torque value) before signing.

DOCUMENT CONTROL

Status	DRAFT, unsigned
Revision	0 · supersedes nothing
Drafted	14 Aug 2026 11:02 MDT, from recording 7VJK0Z
Last edited	14 Aug 2026 11:09 MDT by J. Eggett
Source recording	1:21, 12.0 MB after compression · clip 7VJK0Z
Document hash	not issued until signed
Next review due	set on first signature

AUDIT TRAIL

WHEN	EVENT	WHO	LAST LOGIN
14 Aug 11:02	Draft created from recording 7VJK0Z (1:21)	System	—
14 Aug 11:02	9 steps extracted, 9 frames captured	System	—
14 Aug 11:04	Question asked: final torque for step 9	System	—
14 Aug 11:04	Question asked: part names for the plate and bar	System	—
14 Aug 11:04	Question asked: are the mallet and Loctite used	System	—
14 Aug 11:09	Answered: plate 40-118, bar 40-206	J. Eggett	14 Aug 07:41
14 Aug 11:10	Answered: mallet and Loctite not used here	J. Eggett	14 Aug 07:41
14 Aug 11:10	Reviewed steps 1-9, no step edits	J. Eggett	14 Aug 07:41
14 Aug 11:11	Torque question unanswered. Signing blocked	System	—