



TO INFORM YOU

PRODUCT
SUPPORT
BULLETIN # 403

TO: AUTHORIZED *portable electric tool* SERVICE STATIONS
factory SERVICE / SALES SUPPORT BRANCH
SALES COMPANIES

DATE: July, 2003

TOOL(S) \ PRODUCT(S) AFFECTED: 5303-20, 5359-21 & 5360-21 1-1/8" SDS Rotary Hammer

SUBJECT: Service Notes – How to check the Static Slip of Clutch Mechanism

Note! Before checking the 'static' slip clutch torque a tool's clutch assembly must be dynamically slipped for a minimum of 5 seconds; to dynamically slip the clutch assembly requires drilling with the tool and 'binding a bit in the work' and slipping the clutch faces for 5+ SECONDS.

Parts required to check the 'Static Torque' of Slip Clutch of the 5303-20 & 5360-21 Rotary Hammer are as follows.

- Chuck Adapter # 48-03-3047
- ½" - 20 Hex Nut



Checking 'static' torque – 5303-20 & 5360-21

- remove SDS chuck adapter # 48-66-3044 from the hammer
- insert the 48-03-3047 chuck adapter with a ½"-20 hex nut threaded onto the adapter
- turn / place shifting lever into the "hammer with rotation mode"
- remove the four (4) screws from the motor cover
- remove the motor cover from the crankcase
- place hammer upside down in a machinist vise and tighten securely
- install ¾" socket onto ft-lbs torque wrench, which corresponds to hex of ½"-20 nut
- hold the armature firm by holding onto the fan
- turn torque wrench in a clockwise direction (*as viewed from the bit end of the tool*) while holding the armature fan, observe at what value the clutch slips
- 5303-20 – minimum slip torque 16 ft-lbs / maximum slip torque 20 ft-lbs
- 5360-21 – minimum slip torque 20 ft-lbs / maximum slip torque 36 ft-lbs

Parts required to check the Static Slip Clutch of the 5359-21 Rotary Hammer are as follows.

- Chuck Adapter # 48-03-3005
- ½" - 20 Hex Nut



Checking 'static' torque – 5359-21

- insert the 48-66-3005 chuck adapter w/ ½"-20 hex nut threaded onto the adapter
- turn / place shifting lever into the "hammer w/rotation mode"
- remove the four (4) screws from the motor cover
- remove the motor cover from the crankcase
- place hammer upside down in a machinist vise and tighten securely
- install ¾" socket onto ft-lbs torque wrench, which corresponds to hex of ½"-20 nut
- hold the armature firm by holding onto the fan
- turn torque wrench in a clockwise direction (*as viewed from the bit end of the tool*) while holding the armature fan, observe at what value the clutch slips
- 5359-21 – minimum slip torque 20 ft-lbs / maximum slip torque 36 ft-lbs

This bulletin is for informational purposes. PLEASE NOTE ON SERVICE PARTS LIST: 120V 54-24-0575, -0576, -0577, -5000, -5025 240V 55-24-0575