

Title of Training	Bush Hammer & Chipping Hammers Safety Training	
Equipment Info.	Make/Type/Size/Model	Bush Hammers & Chipping Hammers
Material Needed		

**BUSH HAMMERS & CHIPPING HAMMERS
BEFORE START UP AND BEFORE EACH USE:**



1. CHECK ALL BOLTS, NUTS AND FITTINGS FOR TIGHTNESS.
2. **INSTALL STEEL:**
 - SELECT STEEL WITH SAME SHANK SIZE AS TOOL AND PROPER COLLAR FOR RETAINER BEING USED
 - CHECK SHANK FOR WEAR. THE END SHOULD BE FLAT. A WORN SHANK OR AN UNEVEN END MAY RESULT IN DAMAGE TO THE TOOL OR STEEL BREAKAGE. .
 - CHECK CUTTING EDGE OF BIT FOR SHARPNESS. INSPECT STEEL FOR NICKS OR CRACKS WHICH COULD CAUSE BREAKAGE. (USE ONLY SHARP, PROPERLY DRESSED STEELS).
 - INSERT STEEL INTO RETAINER FROM THE

BACKSIDE. MAKE SURE COLLAR IS POSITIONED PROPERLY IN RETAINER.

- INSERT STEEL SHANK INTO TOOL AND ALIGN RETAINER LOCK SPRING SLOT WITH GROOVE ON BARREL.
- INSERT RETAINER LOCK SPRING INTO SLOT IN RETAINER. FOR EASE OF ASSEMBLY, TURN RETAINER WHILE FEEDING SPRING INTO RETAINER SLOT.

3. CONNECT AIR HOSE:

- USE ONLY AIR HOSE WITH A RATED CAPACITY EQUAL TO A MINIMUM OF 150% OF THE POWER SOURCE (AIR COMPRESSOR) AND WITH COUPLINGS SECURED BY APPROVED CLAMPS. .
- CLEAR HOSES SO TO REMOVE ANY DIRT AND ACCUMULATED EXCESS WATER AND OIL

WARNING

- WHEN BLOWING THROUGH A HOSE OR AIR LINE, ENSURE THAT THE OPEN END IS HELD SECURELY. A FREE END WILL WHIP AND MAY CAUSE INJURY
- . CHECK RUBBER GASKETS OR WASHERS IN HOSE COUPLINGS FOR WEAR OR CRACKS.
- JOIN COUPLINGS TOGETHER TIGHTLY AND SECURE WITH APPROVED SAFETY CLIPS.

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Instructor Name		Date of Training	
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LUBRICATION

THE "M" SERIES CHIPPING HAMMERS REQUIRE MINIMAL LUBRICATION UNDER NORMAL OPERATING CONDITIONS. OIL CARRY-OVER FROM THE COMPRESSOR, COMBINED WITH MOISTURE IN THE AIR, WILL MOST OFTEN PROVIDE SUFFICIENT LUBRICATION. A SLIGHT MIST OF MOISTURE/OIL SHOULD BE PRESENT AT THE TOOL EXHAUST AND ON THE SHANK OF THE STEEL HOWEVER, UNDER UNUSUAL CONDITIONS, SUCH AS LONG LENGTHS OF HOSE MANIFOLDED BEFORE THE TOOL, A SMALL AMOUNT OF LIGHTWEIGHT NON-DETERGENT OIL MAY HAVE TO BE ADDED TO THE AIR SUPPLY.

STARTING AND OPERATING THE TOOL

1. DO NOT RUN THE TOOL WITHOUT A STEEL INSTALLED IN THE TOOL AND THE RETAINER LOCKED IN PLACE.
2. DO NOT RUN THE TOOL WITHOUT THE CUTTING EDGE (POINT) FIRMLY AGAINST THE WORK SURFACE.
3. ALWAYS APPLY SUFFICIENT DOWN PRESSURE TO KEEP THE TOOL FROM BOUNCING. THE PROPER AMOUNT OF DOWN PRESSURE WILL VARY DEPENDING ON THE MATERIAL BEING WORKED, THE TYPE OF CUTTING EDGE AND THE WEIGHT OF THE TOOL. THIS CAN ONLY BE LEARNED THROUGH EXPERIENCE.

RUNNING THE TOOL FOR EFFICIENT OPERATION/PRODUCTION

1. USE ONLY STEEL WITH SHARP CUTTING EDGES.
2. SELECT A CUTTING EDGE MOST SUITED FOR MATERIAL BEING WORKED.
3. BEGIN NEAR ENOUGH TO THE OPEN END OF THE WORK SURFACE SO THAT THE NATURAL WEDGE EFFECT OF THE BLADE OR POINT WILL CAUSE THE MATERIAL BEING WORKED TO BREAK OR FLAKE OFF. WORKING FROM THE BROKEN EDGE BACK TO CENTER WILL ELIMINATE THE NEED TO PRY WITH THE TOOL AND HELP PREVENT THE STEEL FROM BECOMING STUCK.
4. USE PROPER DOWN PRESSURE TO KEEP THE CUTTING EDGE WORKING INTO THE MATERIAL.
5. ASSURE THAT THE TOOL IS RECEIVING ADEQUATE AIRFLOW AND PROPER AIR PRESSURE, AIR PRESSURE SHOULD BE 90 TO 100 psi AT THE TOOL DURING OPERATION

SAFETY TIPS

1. BARRICADE WORK AREA TO KEEP SPECTATORS AT A SAFE DISTANCE.
2. WORK GLOVES OR VIBRATION DAMPENING GLOVES ARE RECOMMENDED WHEN OPERATING PNEUMATIC TOOLS.

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3. WEAR PROPER CLOTHING. LOOSE FITTING CLOTHES OR JEWELRY CAN BECOME CAUGHT IN MOVING PARTS OR ON OPERATING TOOLS.
4. WEAR SAFETY GLASSES AND A FACE SHIELD WHEN OPERATING TOOL
5. WEAR A DUST MASK WHEN NEEDED TO AVOID BREATHING SILICA DUST.
6. WEAR SAFETY SHOES WITH STEEL TOE PROTECTION. NEVER REST A TOOL ON YOUR FOOT FOR ANY REASON.
7. WEAR A SAFETY HARD HAT WHEN OPEMTING TOOL OR WHEN WORKING IN THE IMMEDIATE AREA.
8. WEAR HEARING PROTECTION WHEN OPERATING TOOL OR. WHEN WORKING IN THE IMMEDIATE AREA.
9. THOROUGHLY INSPEGT TOOL CONDITIONS BEFORE OPERATING TO:

- a) **CHECKALL BOLTS FOR PROPERTIGHTNESS'**
- b) **INSPECT RETAINER FOR WEAR WHICH COULD CAUSE THE TOOL OR STEEL TO BE PROPELLED FROM THE TOOL.**
- c) **INSPECT AIR HOSE FITTINGS FOR CMCKS, WORN THREADS OR LOOSE COUPLINGS THAT COULD PERMIT DETACHMENT DURING OPERATION.**
- d) **INSPECTTOOLS AND/OR STEELS FOR PROPER SHARPNESS AND CONDITIONS (DULL EDGES' NICKS, and CRACKS).**

- SECURE AIR HOSE TO TOOL AND BETWEEN ALL HOSE CONNECTIONS USING SAFETY CLIPS OR WIRE.
- .DO NOT LAY AN IDLE TOOL IN DUST OR DIRT UNLESS ALL PORTS ARE COVERED WITH CLEAN MATERIAL.
- DISCONNECT TOOLS FROM THE AIR SUPPLY WHEN NOT IN USE TO PREVENT ACCIDENTAL ACTUATION. WARNING: NEVER
- REMOVE RETAINER OR REPLACE STEEL WITH AIR SUPPLY CONNECTED TO THE AIR TOOL.
- OPERATE THE TOOL FROM A POSITION THAT PERMITS PROPER FOOTING AND BALANCE.
- DO NOT OPERATE THE TOOL WITHOUT A STEEL OR TOOL SECURELY INSTALLED IN THE RETAINER.
- DO NOT OPERATE THE TOOL WITHOUT THE STEEL OR TOOL AGAINST THE WORK FACE.
- OPERATE THE TOOL WITH FIRM AND STEADY PRESSURE. DO NOT FORCE THE TOO_.
- INSPECT AIR HOSES FOR CUTS AND ABRASIONS PRIOR TO USE.
- .NEVER POINT A TOOL OR AN AIR HOSE AT A PERSON OR INDULGE IN HORSEPLAY WITH AIR TOOLS AND HOSE.
- BLOW OUT ALL AIR LINES AND HOSES PRIOR TO USE WARNING: WHEN BLOWING THROUGH A HOSE OR AIR LINE, ENSURE THAT THE OPEN END IS HELD SECURELY. A FREE END WILL WHIP AND MAY CAUSE INJURY,

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- KEEP HANDS OFF THE THROTTLE UNTIL READY TO START. ALWAYS KEEP BOTH HANDS ON THE HANDLE WHILE OPERATING.

*This Safety Training Topic (STT) does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with **equipment manual**. It is designed as a guide to be used to compliment training in the field at Brieser Construction and as a reminder to users prior to equipment use.*

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EMPLOYEE NAME (Print or Type)	EMPLOYEE SIGNATURE	TRADE	JOB TITLE
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