

# **DIAMOND PRODUCTS**

## **OPERATOR'S MANUAL FLOOR GRINDER**

### **MODEL CC200**

**IMPORTANT:  
READ MANUAL AND SAFETY  
PRECAUTIONS BEFORE OPERATING**

# SAFETY WARNINGS

## PERSONAL SAFETY

- READ AND UNDERSTAND INSTRUCTIONS BEFORE OPERATING FLOOR GRINDER.
- ALWAYS WEAR SAFETY APPROVED HEARING, EYE, HEAD AND RESPIRATORY PROTECTION.
- STURDY BOOTS WITH NON SLIP SOLES AID IN PROVIDING PROPER FOOTING. USE OF STEEL-TOED SAFETY BOOTS IS RECOMMENDED.
- UNDER CERTAIN CONDITION, SPARKS MAY FLY SO NEVER WEAR CLOTHES OF FLAMMABLE MATERIAL.
- KNOW HOW TO STOP FLOOR GRINDER QUICKLY IN CASE OF EMERGENCY.
- KEEP ALL PARTS OF YOUR BODY AWAY FROM GRINDING HEAD AND ALL OTHER MOVING PARTS.
- USE CAUTION AND FOLLOW INSTRUCTIONS WHEN LOADING AND UNLOADING FLOOR GRINDER.
- DO NOT USE HANDS TO SEARCH FOR HYDRAULIC FLUID LEAKS. FLUID ESCAPING UNDER PRESSURE CAN PENETRATE SKIN AND CAUSE SEVERE INJURY. IF ANY FLUID IS INJECTED INTO THE SKIN, SEEK MEDICAL ATTENTION IMMEDIATELY.
- WEAR WORK GLOVES TO AVOID CONTACT WITH CONCRETE SLURRY, WHICH CAN CAUSE SERIOUS SKIN IRRITATION.

## GENERAL FLOOR GRINDER SAFETY

- THIS FLOOR GRINDER SHOULD BE USED ONLY ON MATERIAL THAT IS SPECIFIED ON EACH GRINDING HEAD. READ THE INSTRUCTIONS WHICH IS ON EACH GRINDING HEAD TO DETERMINE WHICH MATERIAL THE GRINDING HEAD IS DESIGNED TO BE USED ON.
- **NEVER RAISE THE HEAD OF THE FLOOR GRINDER OFF OF THE GROUND, WHEN FLOOR GRINDER IS RUNNING. GRINDING ACCESSORIES ARE HELD IN PLACE BY THE WEIGHT OF THE FLOOR GRINDER AND WILL PROJECT FROM THE FLOOR GRINDER IF THE HEAD OF THE FLOOR GRINDER IS RAISED UP WHILE RUNNING!**
- ALWAYS KEEP GUARDS IN PLACE.
- MAKE SURE THE GRINDING HEAD DOES NOT MAKE CONTACT WITH THE GROUND AND/OR OTHER SURFACE WHEN TRANSPORTING TH FLOOR GRINDER.
- FLOOR GRINDER MUST NOT BE LEFT UNATTENDED WHILE THE ENGINE IS RUNNING.
- ALWAYS REMEMBER TO KEEP BOTH HANDS ON THE HANDLES WHEN THE ENGINE IS RUNNING.
- DO NOT OPERATE THE MACHINE IF THERE IS A FUEL LEAK. HAVE THE FUEL LEAK FIXED FIRST.
- DISCOUNT POWER. WHEN NOT IN USE, BEFORE SERVICING, AND WHEN CHANGING GRINDING HEAD.
- AVOID ACCIDENTAL STARTING. MAKE SURE ON/OFF SWITCHES ARE IN OFF POSITION BEFORE PLUGGING IN POWER CORD.
- ALWAYS WEAR RESPIRATOR WHEN GRINDING DRY.

## GRINDING/WORK AREA SAFETY

- NEVER OPERATE THE FLOOR GRINDER IN ANY APPLICATION OR JOB WHERE YOU ARE NOT TRAINED OR SUPERVISED.
- OPERATE ONLY IN WELL-VENTILATED AREAS. ENGINE EXHAUST CONTAINS CARBON MONOXIDE WHICH CAN CAUSE LOSS OF CONSCIOUSNESS AND POSSIBLE DEATH.
- KEEP BYSTANDERS AND/OR ANIMALS OUT OF THE WORK AREA.
- OBSERVE ALL SAFETY REGULATION FOR THE SAFE HANDLING OF FUEL. HANDLE FUEL IN SAFETY CONTAINERS. SHUT OFF THE ENGINE AND ALLOW IT TO COOL BEFORE REFUELING. WIPE THE FLOOR GRINDER DRY IF FUEL IS SPILLED ON IT. ALWAYS MOVE AWAY FROM THE FUELING AREA BEFORE STARTING THE ENGINE.
- DO NOT OPERATE THE SAW IN AREAS OF COMBUSTIBLE MATERIAL, SPARKS MAY OCCUR FROM GRINDER THAT COULD CAUSE A FIRE OR AN EXPLOSION.

FAILURE TO COMPLY WITH PROCEEDING WARNINGS COULD RESULT IN SERIOUS BODILY INJURY!

### **!WARNING !**

THE ENGINE EXHAUST FROM THIS PRODUCT  
CONTAINS CHEMICALS KNOWN TO THE  
STATE OF CALIFORNIA TO CAUSE CANCER,  
BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

## ASSEMBLY

- HANDLE MUST BE ATTACHED. PLACE IN POSITION SET TO DESIRED HEIGHT, AND INSERT LOCK PINS.
- BE CERTAIN TO CHECK ENGINE OIL LEVEL AND SERVICE BEFORE USING. REFER TO ENGINE MANUAL FOR DETAILED INFORMATION.
- ON ELECTRIC FLOOR GRINDER MODELS, THE PURCHASER MUST PROVIDE THE PROPER SIZE POWER CORD, FOR WIRING MOTOR STARTER TO POWER SOURCE, REFER TO TAG ON THE SIDE OF THE ELECTRIC MOTOR.
- HYDRAULIC MOTORS REQUIRE 12 GPM @ 2500 PSI

## GENERAL INSTRUCTIONS

- BE CERTAIN YOU HAVE THE CORRECT GRINDING ACCESSORY OR GRINDING HEAD. CONTACT YOUR AUTHORIZED SERVICING DEALER FOR THE CORRECT SPECIFICATION. GETTING THE CORRECT GRINDING ACCESSORY OR GRINDING HEAD WILL MAKE A TREMENDOUS DIFFERENCE IN YOUR COSTS AND PERFORMANCE.
- IF USING STANDARD GRINDING HEADS YOU MUST REMOVE ALUMINUM DISC FROM BLADE SHAFTS AND REPLACE WITH BLADE FLANGES PROVIDED WITH GRINDER.
- MOUNT THE GRINDING HEAD SOLIDLY AND FIRMLY ON BLADE FLANGE, USING BOLTS PROVIDED. TIGHTEN FLANGE BOLTS VERY SECURELY. (APPROXIMATELY 50 FT. LB).
- THE BLADE SHAFT FLANGE MUST BE INSPECTED FOR DAMAGE AND CLEANED BEFORE MOUNTING GRINDING HEAD. IF DAMAGED, REPLACE BAD PARTS. INSPECT GRINDING HEAD FOR DAMAGE TO BOLTHOLES AND FLANGE AREA BEFORE ATTEMPTING TO MOUNT GRINDING HEAD. INSPECT ALUMINUM DISCS BEFORE USE.
- USE WOODEN WEDGES TO HOLD ANY GRINDING ACCESSORY INTO ALUMINUM DISCS. ALWAYS REPLACE WOODEN WEDGES WHEN THEY BECOME DAMAGED.
- WARNING: DO NOT OPERATE WITHOUT PROPER GUARDS IN PLACE.
- DO NOT USE CONVENTIONAL (WET) DIAMOND GRINDING HEAD WITHOUT WATER. TEST YOUR WATER SUPPLY FOR PRESSURE AND QUANTITY (FLOW) BEFORE STARTING TO GRIND.
- THE FLOOR GRINDER IS SHIPPED WITHOUT A GRINDING HEAD. REMOVE BALLAST WEIGHT FROM GRINDER. TILT UNIT BACKWARD AND PLACE BALLAST UNDER THE FRONT OF THE GRINDER SO THE GRINDER WILL STAY IN BACKWARD TILTED POSITION. FOLD THE RUBBER SKIRT BACK. INSERT FROM THE TOP, THROUGH THE FOUR (4) HOLES IN THE GRINDING HEAD MOUNTING PLATE, FOUR (4) 3/8"-24 x 7/8" HEX HEAD BOLTS WITH FOUR (4) 3/8" WASHERS (PROVIDED WITH FLOOR GRINDER) INTO GRINDING HEAD. REPEAT PROCEDURE FOR OTHER DISC. REMOVE BALLAST WEIGHT (S) FROM UNDER MACHINE AND SET MACHINE UPRIGHT. SET BALLAST WEIGHT INTO MACHINE.
- FILL SUMP WITH OIL ON THE ENGINE. USE A HIGH QUALITY DETERGENT OIL. USE THINNER OIL IN THE WINTER SEASON. REMOVE CAP AND DIPSTICK AND FILL TO FULL MARK ON STICK. WHEN CHECKING OIL LEVEL, MAKE SURE FLOOR GRINDER IS LEVEL. DO NOT OVERFILL. DIPSTICK ASSEMBLY MUST BE PUSHED FULLY ONTO TUBE AT ALL TIMES WHEN ENGINE IS OPERATING.
- FILL FUEL TANK WITH CLEAN, "REGULAR" GRADE AUTOMOTIVE GASOLINE. FILL TANK COMPLETELY. DO NOT MIX OIL WITH GASOLINE.
- CONNECT WATER SUPPLY TO HOSE PROVIDED AND CONNECT TO WATER VALVE.
- WHEN GRINDING DRY, REMOVE DUST CAP AND CONNECT VACUUM HOSE TO BACK OF THE MACHINE.
- FOR ELECTRIC FLOOR GRINDER MODELS, WIRE STARTER BOX WITH PROPER SIZE POWER CORD.
- FOR HYDRAULIC FLOOR GRINDER MODELS, CONNECT PRESSURE AND RETURN HOSES FROM POWER UNIT TO VALVE LOCATED ON THE RIGHT HANDLE SUPPORT.

## TO START

- FOLLOW ALL THE INSTRUCTIONS OUTLINED ABOVE.
- BE SURE TILT WHEEL ASSEMBLY IS IN THE REAR POSITION.
- OPEN FUEL VALVE NEXT TO CARBURETOR.
- CHOKE THE CARBURETOR. MOVE LEVER IN DIRECTION OF ARROW TO FULLY CLOSED CHOKE POSITION.
- PULL REWIND STARTER HANDLE. REPEAT IF NECESSARY WITH CHOKE OPENED SLIGHTLY. WHEN ENGINE STARTS, OPEN CHOKE GRADUALLY.

## OPERATION

- FOR WET GRINDING, OPEN WATER VALVE FULL OPEN. CHECK WATER TO VERIFY FULL FLOW, THEN ADJUST FOR PROPER AMOUNT OF WATER ON GRINDING HEAD. IF WATER SUPPLY IS INTERRUPTED, STOP GRINDING IMMEDIATELY. WATER SERVES AS A LUBRICANT AND COOLANT FOR EXTENDED GRINDING HEAD LIFE.
- LIFT UP GENTLY ON THE HANDLE AND PUT THE WHEELS IN THE FORWARD POSITION.
- WITH VACUUM HOSE CONNECTED, TURN VACUUM ON.
- SLOWLY MOVE FLOOR GRINDER OVER AREA TO BE GROUNDED
- TO OBTAIN VARIATION IN GRINDING SPEED AND TO VARY THE DEPTH OF CUT, THE AXLE CAN BE MOVED FORWARD OR BACKWARD TO CHANGE THE DOWNWARD FORCE ON THE GRINDING HEAD. IF EXTREMELY LIGHT CUTS ARE DESIRED, REMOVE THE BALLAST WEIGHT FROM THE MACHINE.
- NOTE: GRINDING HEAD WEAR WILL INCREASE AS THE SPEED AND DEPTH OF CUT IS INCREASED.
- FOR HYDRAULIC FLOOR GRINDER USE 2500 P.S.I. AT 12 G.P.M.

## TO STOP GRINDING

- WHEN FINISHED GRINDING DESIRED AREA, LIFT UP ON THE HANDLE AND PUT THE WHEEL ASSEMBLY IN THE FORWARD POSITION.
- PULL THROTTLE LEVER BACK, LOCATED ON RIGHT SIDE OF HANDLE BAR (ON 13HP HONDA ONLY).
- ON ELECTRIC FLOOR GRINDER MODELS, PRESS STOP BUTTON LOCATED ON STARTER BOX.
- ON HYDRAULIC FLOOR GRINDER MODELS, TURN VALVE LOCATED ON RIGHT SIDE OF FLOOR GRINDER HANDLE SUPPORT.
- TURN FUEL VALVE OFF NEXT TO CARBBURETOR.
- TURN WATER OFF AT WATER VALVE ON THE GRINDER.

## MAINTENANCE

- LUBRICATE BEARINGS DAILY! NOTE: WHEN CUTTING DRY, GREASE BEARINGS TWO OR THREE TIMES DAILY. DO NOT OVERGREASE. GREASE PROVIDES AN ADDED PROTECTIVE SEAL FOR THE BEARINGS. GREASE BOTTOM AND MIDDLE BEARINGS FROM UNDER MACHINE. AFTER A MAXIMUM OF EVERY 40 HOURS OF OPERATION, GREASE REAR WHEELS.
- CHECK ENGINE OIL DAILY. KEEP OIL CLEAN AND AT PROPER LEVEL. SINCE THE ENGINE OFTEN OPERATES AT AN ANGLE, CHECK THE OIL LEVEL (WITH ENGINE HORIZONTAL) FREQUENTLY TO ENSURE THAT THE OIL LEVEL NEVER FALLS BELOW THE LOWER MARK ON THE DIPSTICK. FOLLOW ENGINE MANUFACTURER'S RECOMMENDATION ON CHANGING OIL.
- ENGINE CARE: SEE ENGINE MANUAL
- BLADE SHAFT V-BELTS TENSION: THIS MODEL FLOOR GRINDER IS EQUIPPED WITH PREMIUM V-BELTS. THESE BELTS ARE PROPERLY TENSIONED AT THE FACTORY. SEVERE DAMAGE OR EVEN BREAKAGE OF THE CRANKSHAFT MIGHT OCCUR IF THE BELTS ARE TENSIONED TOO TIGHT. CHECK BELT TENSION AS SET ON THE NEW GRINDER AND NEVER SET BELTS BEYOND ORIGINAL FACTORY TENSION. NOT ENOUGH TENSION WILL RESULT IN POOR GRINDER PERFORMANCE AND SHORT BELT LIFE. BELTS SHOULD NEVER BE ALLOWED TO SLIP. AFTER TWO HOURS OF USE, RE-TENSION BELTS TO MAKE UP FOR INITIAL STRETCH. TO RE-TENSION THE BELTS, TURN THE HORIZONTAL TENSIONING BOLT ON THE FRONT OF THE ENGINE BASE CLOCKWISE UNTIL THE BELTS ARE TIGHT. RE-TIGHTEN THE FOUR BOLTS ON THE ENGINE BASE. CONTINUE TO CHECK THE BELT TENSION ON A REGULAR BASIS, AND RE-TIGHTEN AS NECESSARY. TO OBTAIN ACCURATE V-BELT SETTING, A V-BELT TENSION TESTER SHOULD BE USED. CHECK THE SETTING ON A SINGLE BELT OF A MATCHED SET OF V-BELTS. APPLY LOAD AT THE CENTER OF THE BELT SPAN. DEFLECTION SHOULD BE 3/16" WITH A 5 TO 6 LB. LOAD.
- TIGHTEN FASTENERS REGULARLY. NUTS AND BOLTS MAY BECOME LOOSE PARTICULARLY AFTER THE FIRST FEW HOURS OF OPERATION. CARE MUST BE TAKEN TO SELECT THE PROPER TOOLS AND FASTENERS. DAMAGE TO THE THREADED FASTENERS COULD OCCUR IF INCORRECT TOOLS OR FASTENERS ARE USED.
- PERIODICALLY CHECK SHAFT ASSEMBLY FOR ENDPLAY. THERE SHOULD BE NO ENDPLAY. ADJUSTMENT IS MADE BY READJUSTING SHAFT HEIGHTS AND RETIGHTENING BEARINGS TO THE SHAFT.

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