

I'm human



Ditch witch jt2020 repair manual

JT2020 Mach 1 Operator's Manual Overview 1. Chapter Contents • Serial Number Location: Record serial numbers and date of purchase in designated spaces. • Intended Use: The JT2020 Mach 1 is a self-contained horizontal directional drilling unit designed to install buried cable and pipe up to 400' (122 m) depending on soil conditions. 2. Equipment Modification • Any modification could render the equipment non-compliant with regulations and affect its functionality, requiring only competent personnel familiar with applicable standards and regulations. 3. Operator Orientation The JT2020 Mach 1 should be operated by persons acquainted with its characteristics and safety procedures, and it should not be used in any way other than as intended. 1. Overview of the Mach 1 Operator's Manual The manual covers all aspects necessary for proper use and maintenance of the CMW JT2020 Mach 1 equipment. 2. Top View of the Unit The unit is composed of front, right side, rear, and left sides which are illustrated in this section. 3. Important Pages For basic operating procedures, refer to the beige Operation Overview pages. 4. Cross References Detailed procedures can be found by following cross references such as "See page 50". 5. Bulleted Lists and Numbered Lists Bulleted lists contain helpful information while numbered lists provide step-by-step instructions. 6. Important Information A warning is indicated when a procedure continues on the next page. 7. About This Manual This manual serves as an essential part of your equipment, providing safety information and operation guidelines. 8. Foreword Read this manual before using the equipment to ensure safe usage and maintenance. This product is protected by several patents worldwide, including U.S. patent B1 4,858,704 and others listed here. The Charles Machine Works, Inc., owns the trademarks Underground Authority Worldwide and Zahn. The CMW JT2020 Mach 1 Operator's Manual contains various sections such as overview, safety guidelines, controls, operation procedures, conduct a bore instructions, service intervals, and warranty information. 1. Looking forward to meeting everyone at the conference tomorrow and discussing our marketing strategies. 2. Need to locate underground utilities before digging, please contact local One-Call service (811 in USA) or referral number (888-258-0808 in Canada). 3. Evaluate job site hazards, choose correct tools, and use safety equipment properly to ensure safe working conditions. 4. Wear personal protective gear when working on the site. 5. Review safety procedures with all personnel before work begins. 6. Replace missing or damaged safety signs and shields immediately. 7. Operate equipment carefully, stop if unsure about anything, and contact dealer for assistance. Please note that this is a paraphrased version of the original text, condensed and reformulated to maintain the core meaning while removing unnecessary details. Follow all instructions carefully, as your safety is at risk. Be aware of the three safety alert levels: DANGER, WARNING, and CAUTION, which indicate increasingly severe hazards. NOTICE and IMPORTANT warnings also appear to inform you about potential risks or opportunities for improvement. Danger indicates an extremely hazardous situation that can result in death or serious injury if not avoided. Warning signals a potentially hazardous situation that could lead to death or serious injury if proper precautions are not taken. Caution alerts you to a situation where minor or moderate injury may occur if the risk is not mitigated. When working with tools and equipment, be cautious of moving parts, which can cause cuts or amputations. Additionally, watch out for overhead obstructions, such as power lines, which can cause electrocution. Other hazards include explosive materials, fire hazards, and jobsite accidents, all of which require proper safety protocols to mitigate. Always follow the correct procedures, use the right equipment, and maintain your gear to avoid injury or death. Signs of potential danger can be found throughout the CMW Safety - JT2020 Mach 1 Operator's Manual. Hot pressurized cooling systems may cause serious burns if not allowed to cool before servicing. Additionally, flying objects could lead to injury, emphasizing the importance of wearing protective gear like hard hats and safety glasses. Other hazards include exposure to high noise levels which can result in hearing loss, and falls or slips that may lead to injury. Furthermore, improper handling or use of chemicals could cause illness, injury, or damage equipment. Emergency procedures must be reviewed and followed before operating any equipment. This includes turning off the ignition switch or pushing the remote engine stop button if equipped. It is crucial to understand that electric lines can cause death or serious injury. When working near electric cables, it's essential to remember that electricity follows all paths to ground, not just the path of least resistance. Pipes, hoses, and cables can conduct electricity back to equipment, making low voltage current a significant hazard. Signs of an electric strike include power outages, smoke, explosions, popping noises, or arcing electricity. If any of these occur, assume an electric strike has occurred and take immediate action. If you suspect an electric line has been damaged while on a drilling unit or bonded equipment, DO NOT MOVE. Instead, remain on the machine or mats and follow specific steps to ensure your safety and the safety of those around you. If power lines are damaged, do not approach equipment until utility company gives permission. Wait at least one minute for alarm to sound again or all lights in strike indicator to come on. If no alarm sounds and all lights are on, assume strike is ongoing and stay where you are. Do not resume drilling or allow anyone into area until given the green light by electric company. If you suspect an electric line has been damaged and you're near equipment, do not touch any connected gear. Stay put unless wearing electric insulating boots. If leaving, don't return to the area or let others in until utility company says it's safe. If a gas line is suspected to be damaged, shut off engine(s) if possible, remove ignition sources, warn others, and leave the site quickly. Call emergency services and wait for permission before returning. When dealing with cut fiber optic or unidentified cables, do not look into their ends as vision damage can occur. Perform shutdown procedures first, then move the battery disconnect switch to the disconnect position. If a small fire is present and an extinguisher is available, attempt to put it out. If the fire cannot be extinguished, leave the area immediately. As soon as possible, contact emergency services. CMW JT2020 Mach 1 Operator's Manual Controls - 21 Chapter Contents Setup Console... 22 Tethered Ground Drive Controller... 25 Left Control Console... 27 Pipeloading controls... 27 Drilling/Operation controls... 31 Gauge Cluster... 34 Unit status indicators... 34 Pipeloading status indicators... 37 Gauges... 40 Right Control Console... 42 Anchoring System Console... 48 ESID... 49 Ditch Witch Electronics 750/752 Display... 53 Indicators... 56 CMW Controls - 22 JT2020 Mach 1 Operator's Manual Setup Console 1. Tracker control key 2. Cold start wait indicator 3. Ignition switch 4. Left track switch Item Description Notes 1. Tracker control key To allow tracker operator to stop thrust and rotation, move key to enable position (up). To override tracker control mode, move key to disable position (right). 5. Right track switch 6. Right stabilizer control 7. Frame tilt control 8. Left stabilizer control IMPORTANT: Remove key and keep in tracker operator's possession. CMW JT2020 Mach 1 Operator's Manual Controls - 23 Setup Console Item Description Notes 2. Cold start wait indicator Lights when intake air pre-heater is operating. Wait until light goes off before starting engine. 1. Move forward by pressing top on left track switch, backward by pressing bottom. Same for right track switch. 2. If ignition switch is turned off with remote engine stop switch, restart engine using ignition switch. Wrenches will engage/disengage accordingly. 3. Use track switches only if tethered control is inoperable. 4. Adjust stabilizers to stabilize unit and adjust entry angle after leveling. 5. Raise front end of drill frame by pulling up on frame tilt control, lower by pushing down. 6. Lower left and right stabilizers to the ground for side-to-side stability. 7. Move forward by pushing speed/direction control, backward by pulling, steer by moving left or right. 8. Press operator presence switch with empty operator seat for controller to work. 9. Select normal driving mode (high) by pushing power mode switch, loading/unloading mode (low) by pulling, disable by returning to center. 10. Stop engine by pressing red button on remote engine stop, operate ground drive by pressing operator presence switch, and increase/decrease engine speed using throttle switch. IMPORTANT: To restart engine, turn ignition switch off then back on. Throttle switch must be centered for control over speed. CMW JT2020 Mach 1 Operator's Manual - Controls 27 Left Control Console. 1. Add/Remove Pipe Switch: * Top: automated pipeloader function * Center: manual pipeloader controls * Bottom: automated "remove pipe" function 2. Set/Resume Switch: * Top: resume operation, increase levels * Bottom: set conditions, reduce levels 3. Pipe Box Switch: * Left: shift toward operator * Right: shift away from operator (see pages 102,109,146) 4. Resume Switch: * Press to resume operation 5. Wrench Control: * Right: clamp front wrench * Left: unclamp front wrench * Push: clamp and rotate rear wrench * Pull: unclamp rear wrench 6. Pipe Lift Switch: * Top: raise pipe * Bottom: lower pipe 7. Pipe Shuttle Switch: * Top: move toward pipe box * Bottom: move toward spindle 8. Two-Speed Rotation Switch: * Right: low speed, high torque * Left: high speed, low torque Following Gus's passing in 1928, Charlie rebranded their equipment repair shop as Charlie's Workshop. Two decades later, in 1944, Charlie successfully persuaded his son Edwin "Ed" Malzahn, a mechanical engineer with an Oklahoma A&M (now Oklahoma State University) education, to join the family business.

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