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NOTICE

It is Minnich's policy to constantly strive to improve our products. The information, specifications, and illustrations in this publication are based on the information in effect at the same time as approval for printing and publishing. Minnich therefore reserves the right to make changes in design and improvements whenever it is believed the efficiency of the machine which has been shipped or curring any obligation to incorporate such improvements in any machine which has been shipped or is in service. It is recommended that users contact Minnich or a Minnich Dealer for latest revisions.

NOTICE

See engine manual for information pertaining to the engine.

NOTICE

If there are any questions regarding the machine or its application which are not covered in this manual or in other literature accompanying this unit, please contact your Minnich Dealer or Minnich Manufacturing at 419-903-0010 or sales@minnich-mfg.com

WARNING

CALIFORNIA PROPOSITION 65

Engine exhaust and some of its constituents, and some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the Sate of California to cause cancer, birth defects and other reproductive harm. Some examples of these chemicals are:

Lead from lead-based paints.
Crystalline silica from bricks.
Arsenic and chromium from chemically treated lumbar.

Your risk from these exposures caries, depending on how often you do this type of work. To reduce your exposure to these chemicals: ALWAYS work in a well ventilated area, and work with improved safety equipment, such as dust masks that are specifically designed to filter out microscopic particles.

WARNING

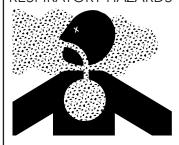
SILICOSIS WARNING

Grinding/cutting/drilling of masonry, concrete,metal and other materials with silica in their composition may give off dust or mist containing crystalline silica.

Silica is a basic components of sand, quarts, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respirator disease, including silicosis. In addition, California and some authorities have listed repairable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

WARNING

RESPIRATORY HAZARDS



Grinding/cutting/drilling of masonry, concrete, metal and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproduction harm, if you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause

cancer, reproductive toxicity or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufactures of suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mist and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by OSHA/NIOSH for the materials being used.

GENERAL SAFETY

Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.

This operation manual has been developed to provide complete instruction for the safe and efficient operation. Refer to the manufactures instructions for data relative to its safe operation. Before using, ensure that the operating individual has read and understood all instructions in the manual. The surrounding environment and you, could be damaged if you do not follow instructions.

SAFETY MESSAGES

The four safety messages shown below will inform you about potential hazards that could injure you or others. The safety messages specifically address the level of exposure to the operator and are preceded by one of four words: DANGER, WARNING, CAUTION or NOTICE.

A DANGER

Indicates a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY

WARNING

Indicates a hazardous situation which, if not avoided, COULD result in DEATH or SERI-OUS INJURY

A CAUTION

Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MOD-ERATE INJURY

NOTICE

Addresses practices not related to personal injury

SAFETY SYMBOLS

Potential hazards associated with the operation of this equipment will be referenced with hazards symbols which may appear throughout this manual in conjunction with safety messages.

SYMBOL	SAFETY HAZARD	
	Lethal exhaust gas hazards	
M	Explosive fuel hazards	
	Burn hazard	
	Factory Settings	

A CAUTION

Δ NEVER operate this equipment without proper protective clothing, shatter proof glasses, respirator protection, hearing protection, steel-toes boots and other protective devises required by the job or city and sate regulations.











Δ Never operate this equipment when not feeling well due to fatigue, illness or when under medication.



Δ NEVER operate this equipment under the influence of drugs or alcohol.







- Δ ALWAYS check the equipment for loosened threads or bolts before starting.
- Δ NEVER operate around corrosive chemicals or water containing toxic substances. These fluids could create serious health and environmental hazards. Contact local authorities for assistance.
- Δ DO NOT use the equipment for any purpose other than its intended purpose or applications.

NOTICE

- Δ This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Δ This equipment is for industrial use only. Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.
- Δ Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modifications will void all warranties. Any modification which it could lead to change in the original characteristics of the machine should be

- made only by the manufacturer who shall confirm that the machine is in comfortability with appropriate safety regulations.
- △ Never use accessories or attachments that are not recommended by Minnich for the equipment. Damage to the equipment and/or injury to user may result.
- Δ Always know the location of the nearest fire extinguisher.
- Δ ALWAYS know the location of the nearest first aid kit.



Δ ALWAYS know the location of the nearest phone or keep a phone on the job site. Also, know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.







A DANGER

Δ NEVER operate the equipment in an explosive atmosphere, near combustible materials, or near flammable or low flash point fluids. An explosion or fire could result causing severe bodily harm or even death.



WARNING

- Δ NEVER disconnect any emergency or safety devices. These devises are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these will void all warranties.
- Δ NEVER operate equipment with the covers or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury. Wear clothing that will not likely become caught in the equipment or snag on any moving parts.

A CAUTION

- ΔALWAYS be sure the operator is familiar with the proper safety precautions and operating techniques before using.
- ΔNEVER leave the machine unattended. Turn off when unattended

- Δ DO NOT expose vibrator to rain.
- ΔDO NOT use vibrator motor in damp or wet locations without proper electrical circuits.
- Δ DO NOT immerse the motor part in concrete.
- Δ ALWAYS keep clear of rotating or moving parts while operating.
- Δ NEVER leave the machine unattended while running
- △ ALWAYS disconnect the motor from the power source when not in use, before servicing, and when changing flexible shafting and vibrator heads.
- Δ Allow the machine to cool before servicing. Contact with hot components can cause serious burns.



Δ Before Each use, ALWAYS check the motor to make certain that there are no damaged parts and that all parts function properly. If any damage or malfunctioning parts are found, have them repaired or replaced by an authorized service facility.

NOTICE

- △ ALWAYS secure forms. Make sure the form work is well made and braced to withstand the stresses made by vibration.
- Δ ALWAYS keep vibrator motor clean for better and safer operation.
- Δ ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of reach of children and unauthorized personnel.
- Δ Use only factory authorized replacement parts.
- Δ Store idle vibrator motor. When not in use, motor should be stored in a dry, safe storage area.

ENVIRONMENTAL SAFETY/DECOMMISSIONING

NOTICE

- Δ DO NOT pour waste or oil directly into the ground, down a drain or into any water source.
- Δ Contact you country department of Public Works or recycling agency in your area and arrange for proper disposal of any electrical components, waste or oil associated with this equipment.



- Δ When the life cycle of this equipment is over, remove battery (if equip) and bring to appropriate facility for lead reclamation. Use safety precautions when handling batteries that contain sulfuric acid.
- Δ When the life cycle of this equipment is over, it is recommended that the unit frame and all other metal parts be sent to a recycling center.

Metal recycling involves the collection of metal from discarded products and its trans formation into raw materials to use in many Manufacturing a new product.

Recyclers and manufactures alike promote the process of recycling center promotes energy cost savings.

NOTICE

Decommissioning is a controlled process used to safely retire a piece of equipment that is no longer serviceable. If the equipment poses an unacceptable and unrepairable safety risk due to wear or damage or is no longer cost effective to maintain (beyond life-cycle reliability) and is to be decommissioned (demolition and dismantlement), be sure to follow rules below.

Δ ALWAYS observe all applicable compulsory regulations relevant to environmental protection, especially fuel storage, the handling of hazardous substances, and the wearing of protective clothing and equipment. Instruct the user as a necessary, or, as the user, request this information and training.

GENERAL SAFETY

- Δ ALWAYS Dispose of hazardous waste properly. Examples of potentially hazardous waste include used motor oil, fuel, and fuel filters.
- Δ DO NOT use food or plastic containers to dispose hazardous waste.
- Δ DO NOT pour waste or oil directly onto the ground, down or drain or into any waste source.

NOTICE

- Δ ALWAYS keep the machine in proper running condition.
- Δ ALWAYS become familiar with the components of the machine before operation.
- Δ Fix damage to machine and replace any broken parts immediately.
- Δ ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.
- Δ NEVER lubricate components or attempt service on a running machine

A CAUTION

Δ NEVER tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result in operation in speed ranges above the maximum allowability.



BEFORE CONNECTING THE AIR COMPRESSOR:

A CAUTION

- Δ Install the drill steel and bits into the drill motors and close the latch retainers and rod guides.
- Δ Make sure that the air compressor is set at an operating pressure of not more than 120 PSIG (8Bar)
- Δ Make sure air line is cleaned out and is of the proper size and pressure rating for the drill unit.
- Δ Make sure the lubricator is filled with proper lubricant. See Minnich recommended lubricant below.

- Δ Make sure all controls are in the "off" position and the lift lever (if so equipped) is in the "up" position.
- Δ Make sure all lock pins are in their locked position.

WARNING

- Δ NEVER attempt to loosen any compressed air hose that is pressurized.
- Δ KEEP AWAY from all hot or spark generating objects, do not smoke when handling fuel.
- Δ So as to facilitate shipment, new or repaired units are not lubricated before delivery to customers.
- Δ DO NOT use hydrocarbons and especially do not use fuel oil for lubricating purposes.
- A DO NOT OPERATE MACHINE WITHOUT GUARDS AND COVERS IN PLACE
- Δ ALWAYS disconnect the air supply before changing steel or dismantling the tool for service or repair. For maximum safety we advise the installation of a shut-off valve at the end of the air line.
- Δ NEVER operate the engine with heat shields or guards removed.
- Δ DO NOT remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the engine crankcase and severely scald any persons in the general area of the machine.

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NOTICE

- Δ CLEAR AIR SUPPLY LINE: Before connecting vibrator, clear the compressed air supply line of possible impurities, contaminants and water.
- Δ LUBRICATE: Every day or every four hours of continuous service, pour a ½ teaspoon of non-detergent oil into the quick release coupling. NOTE: An optional oiler/strainer is available.

CONNECT/START

NOTICE

If the vibration intensity drops, check that the filters are not clogged or that hoses are not kinked.

STORAGE

NOTICE

To properly store unit after use, hang the vibrator with the head up and set the handle (variable control assembly) in the open position to permit the discharge of possible impurities, contaminants and water.

PLACEMENT AND CONSOLIDATION

NOTICE

The force exerted by an internal concrete vibrator is controlled by the weight and the speed at which the eccentric rotates. The centrifugal force exerted can be arrived at by various combinations of weight (size of eccentric weight) and the speed at which the weight rotates. For years the most favorable working speed for a vibrator was considered to be around 10,200 RPM (VPM) and consequently this figure is used in many vibrator comparisons. More recently, the optimum speed for compaction has been accepted as being between 7500 and 9000 RPM.

PERSONAL SAFETY

- Δ Stay alert, watch what you are doing, and use common sense when operating the machine.
- Δ DO NOT use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury or death.
- Δ Dress properly. DO NOT wear loose clothing or jewelry. Tie up long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelery, or long hair can be caught in moving parts.
- ΔDO NOT overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control in unexpected situations.

SERVICE

- Δ Tool service must be preformed only by qualified repair personnel. Service or maintained preformed by unqualified personnel could result in injury or death
- Δ When servicing a tool, use only identical replacement parts. Use of unauthorized parts may create a risk of injury or death.

NOTICE

To find the latest revision of this publication, visit our website at: www.minnich-mfg.com

NOTICE

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

NOTICE

Specifications and part numbers are subject to change without notice.

AV-CC II



Gain access to valuable real-time hydraulic vibrator data with the Minnich Auto Vibe CCII system. Auto Vibe CC II monitors up to 48 hydraulic vibrators during the paving process, recording and displaying live data that can be used to ensure proper vibrator operation. The Minnich system was designed to simplify hydraulic paving vibrator monitoring during heavy highway and airport paving processes. A new, high-visibility, all-weather touch screen monitor offers easy navigation. The IQAN system offers field diagnostics and remote access to Minnich Manufacturing field support.

- *Touch screen controls
- *IQAN Remote field diagnostic access to Minnich Manufacturing support
- *Graphical interface
- *Real time readout
- *VPM readout of up to 48 vibrators
- *Alarm range settings to maintain proper operation
- *Optional monitoring of temperature and relative humidity
- *Optional monitoring of ground speed and distance traveled
- *Auto Vibe II can be installed on any new or existing hydraulic vibrator system.

GENERAL SYSTEM SET-UP

System Installation

It is IMPORTANT to identify which vibrator you want to be #1, #2, #3 and so on. This is because the order that you learn the sensor adapters/valve controllers corresponds to their number on the monitor.

We recommend that you start at one end of the machine (right or left) and work your way to the other end.

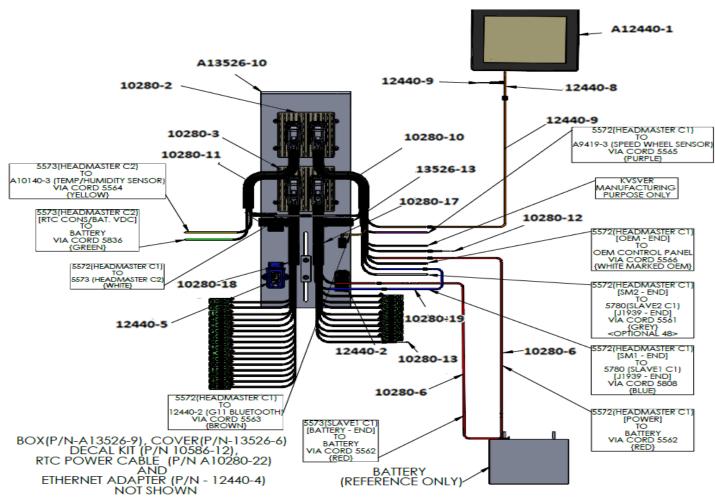
- 1. Locate/hang the Control Box Hanger Assembly A13526-00010 (1 Hanger per 24 vibes) on a free/clear location on the Paver railing.
- 2. Locate/attach the Monitor Enclosure w/ Monitor A12440-00001 on a free/clear location near the operator control panel with the RAM Mount System included.
- 3. Locate the (2) Monitor Connection Harnesses (ORANGE) 012440-00007 or 5567 & 012440-00008 or 5568.
- 4. Plug MD4 Display Harness 012440-00008 or 5568 (2-plug, Black & Gray) into the back of the MD4 Display Module Assembly A12440-1.
- 5. Plug opposite end of MD4 Display Harness 012440-00008 or 5568 (ORANGE) into 012440-00007 Display/Master Harness or 5567 (ORANGE).
- 6. Plug Display/Master Harness 012440-00007 or 5567 (ORANGE) into C1 Master Harness 010280-00010 or 5572 (ORANGE).
- 7. Plug G11 Module (BROWN) 012440-00002 directly into C1 Master Harness 010280-00010 or 5572 (BROWN).
- 8. The (2) Power Cables 010280-00006 or 5562 (RED) need to be connected to POWER connectors on both 010280-00010 or 5572 and 010280-00017 or 5780, and the leads on the other end need to connect directly to Key Switch Solenoid (24V).
- 9. REAL TIME CLOCK Module 012440-00005 (RTC) is plugged directly to RTC Harness on C2 Master Harness (GREEN) 010280-00011 or 5573.



- 10. Plug RTC Power Harness 010280-00020 or 5836 (GREEN) to C2 Master Harness 010280-00011 or 5573 (GREEN), and other end directly to battery (24V).
- 11. Plug Master C1 10280-00010 or 5572 (WHITE) directly into Master C2 10280-00011 or 5573 (WHITE).
- 12. Plug Jumper Harness 010280-00019 or 5808 (BLUE) into Master C1 10280-00010 or 5572 (BLUE) and the opposite end into Driver C1 010280-00017 or 5780 (BLUE).

GENERAL SYSTEM SET-UP

- 13. AV-CC48 Systems ONLY, plug 010280-00005 or 5561 (GREY) into Master C1 010280-00010 or 5572 (GREY) and opposite end into C1 Driver #2 Module on second Hanger Assembly on C1 010280-00017 or 5780 (BLUE).
- 14. (OPTIONAL) Plug Travel Speed Harness 010280-00008 or 5565 (PURPLE) into C1 Master Harness (PURPLE) 010280-000010 or 5572 and the other end to the Speed Wheel Assembly (PURPLE).
- 15. (OPTIONAL) The Speed Wheel Assembly should be mounted either over one of the tracks or where it can run in the track path. NOTE: It is advisable to place the wheel where it will be protected, as well as where there will be minimum build up of residue (mud, concrete, etc) on the tread. The lead for the speed wheel should be connected to the special sensor adapter for it.
- *Direction of rotation is labeled by an arrow.
- 16. (OPTIONAL) Plug Temp/Humidity Sensor (YELLOW) 0A9447-00003 into C2 Master Harness (YELLOW) on 010280-00011 or 5573 OR into optional A10140-00003 Mount Assembly (YELLOW).
- *Remove plastic protective cover during use. Sensor should be pointed in downward facing direction.
- 17. The KVASER Plug on 010280-00010 or 5572 is for manufacturing purposes ONLY.

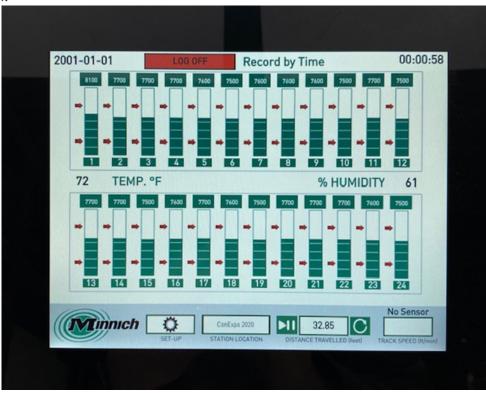


SYSTEM SET-UP

SCREEN INFORMATION

1. There is no power button. Once the system is connected to power, the monitor will power on.

MAIN SCREEN:



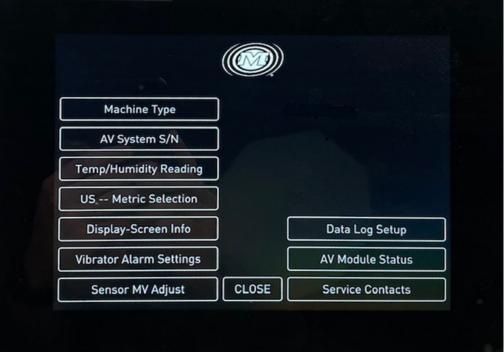
OTHER MAIN SCREEN INFORMATION:

- a. Temperature: Once Temp/Humidity connected temp will be displayed.
- b. Humidity: Once Temp/Humidity connected temp will be displayed.
- c. Track Speed: Once speed wheel is installed; speed will be displayed.
- d. Station Location: Click to define your station location(s).
- e. 48 Vibe System: Once selected, will have button to navigate to page 2

2. Choose the SET-UP button located at the bottom of the screen.



This will bring up the MENU SCREEN:



3. MACHINE TYPE:

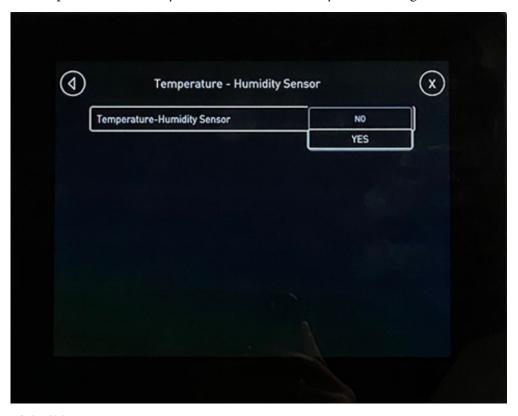
- a. This is where the type of system being used is selected.
- b. 24 INPUT ONLY: AVII System for up to 24 Vibes.
- c. 48 INPUT ONLY: AVII System for up to 48 Vibes.
- d. 12 INPUT/12 OUTPUT: AVIII System for up to 12 Vibes.
- e. 24 INPUT/24 OUTPUT: AVIII System for up to 24 Vibes.



4. AV SYSTEM S/N: This is a manufacturer input and users are locked out of this, this is a factory issued serial number.

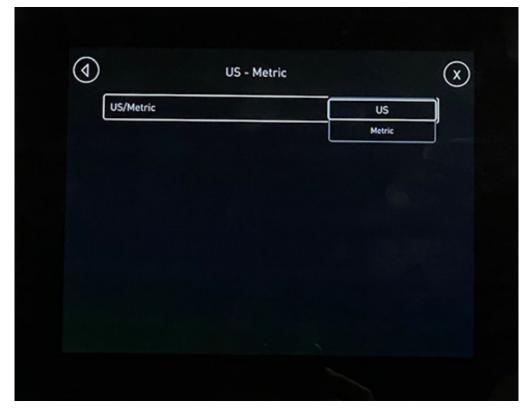
5. TEM/HUMIDITY READING:

a. Turn on/off temperature/humidity sensor based on if the system is using that device.



6. US -- METRIC SYSTEM:

a. Choose either a US standard or Metric version



SYSTEM SET-UP —

7. DISPLAY – SCREEN INFO:



7.1 SYSTEM:



SYSTEM SET-UP

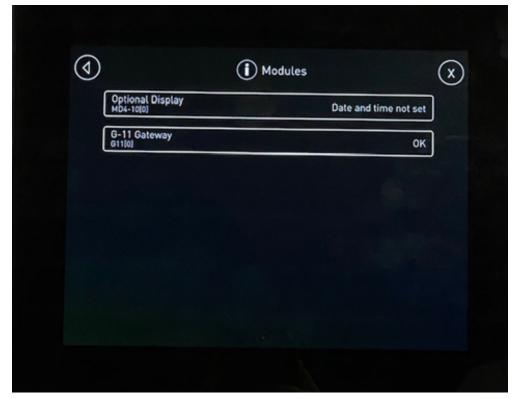
INFO:

1. This section lists all of the system information (Name, Software Version, Description, Software Author, Project ID, and Machine ID).



MODULES:

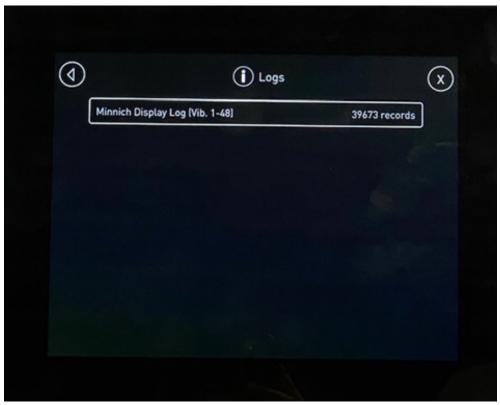
2. Displays a listing of what modules are connected to the system.



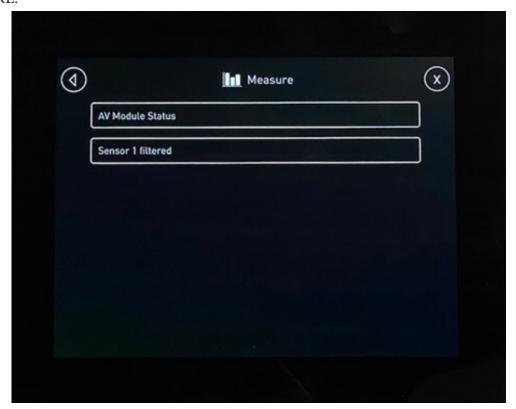
SYSTEM SET-UP

7.1.3 LOGS:

a. Displays the number of recorded logs in memory along with the date and the time of the recordings.



7.2 MEAUSURE:



7.2.1 AV MODULE STATUS:

a. Informational screen showing status of online modules, along with software versions and serial numbers.



7.3 ADJUST:



**In the ADJUST screen: There are all of the screen buttons in one location.

SYSTEM SET-UP

7.4 PREFERENCES:



7.4.1 DISPLAY: Ability to adjust the brightness.

7.4.2 DATE/TIME: Ability to adjust the date and time of day.

 $7.4.3\;LANGUAGE: Ability to select different languages.$

VIBRATOR ALARM SETTINGS



- 8.1.1 ALARMS ON/OFF: Ability to turn on or off set vibration alarms across the paving system.
- 8.1.2 HIGH ALARM: Ability to set the high side vibration alarm.
- 8.1.3 LOW ALARM: Ability to set the low side vibration alarm.
- 9.0 SENSOR MV ADJUST: This is a manufacturer only designated area. NO ACCESS.
- 10.0 CLOSE: This closes the MENU SCREEN
- 11.0 Back Button: Any time you see a this will take you back one screen.
- 12.0 "X" or Close Button: Any time you see a this will close the screen and take you back to the MENU SCREEN.

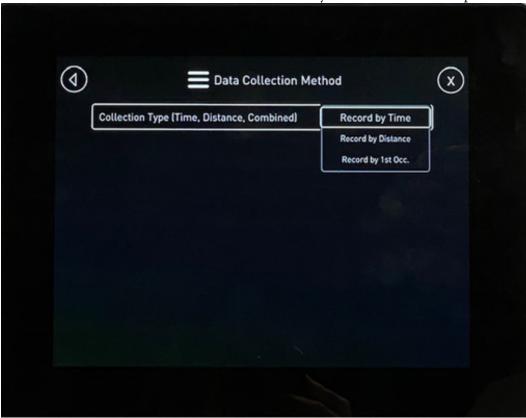
13.0 DATA LOG SETUP:



- 13.1 TRAVEL (SPEED WHEEL): If the system is equipped with a Travel Speed Wheel, this is where you turn that feature on.
- a. Once TRAVEL SPEED WHEEL is connected, on the MAIN SCREEN, you will notice in the bottom right corner the travel speed.



13.2 Click on the RECORD BY... middle button. This will allow you to choose record options:



13.2.1 RECORD BY TIME:

Record by Time Setting Click to choose time.



13.2.2 RECORD BY DISTANCE

Record by Distance Settings

Click to choose distance.



13.2.3 RECORD BY 1st. OCC

Click to choose 1st occurrence (distance or time). Once this is selected, these two options will be available.



DATE LOGGING

Once all of the collection methods required are set up, the system will save it this way. Go back to the MAIN SCREEN.

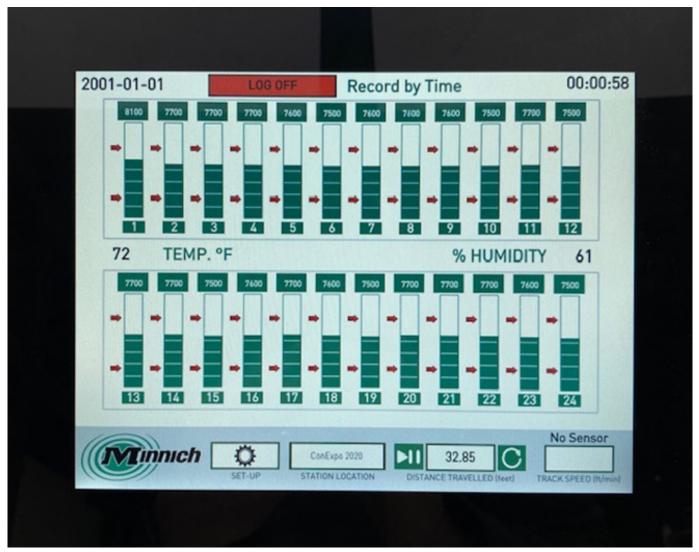
*Notice that the record method should match what was selected. In this screen shot below, it is set to

RECORD BY TIME. Record by Time

Click on the LOG OFF button in red.

This will turn the button to LOG ON in green LOG ON

ONCE IT IS "GREEN", THE LOGS ARE BEING RECORDED



*In this example, it is "RED", so this is not recording.

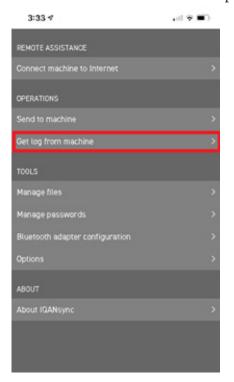
DATA LOGGING

Retrieving Log Files:

1.0 Download the Parker IQANgo app from the iOS or Android store.

Open the IQANgo App and click GET LOG FROM MACHINE

- 3.0 Select the machine from the listing
- 4.0 Click "OK" to the Bluetooth update available







- 5.0 Click on the log file from the listing
- 6.0 Click on the option on what you want to do with this log file and wait for the file to download. Should get successful download message, click OK.







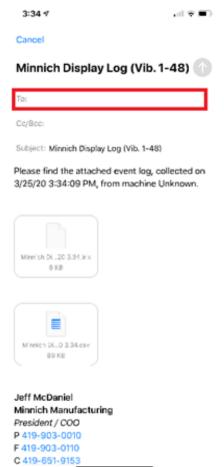
DOWEL DRILL MANUAL

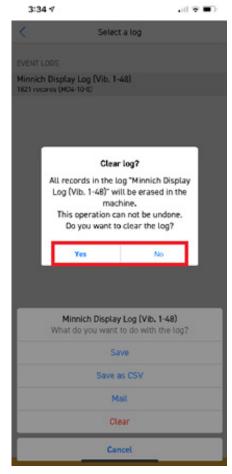
DATA LOGGING

Once file is saved to phone, you can still choose to email it.

8.0 If the option of email is initially chosen, the App will automatically bring up the email screen with the attachment. Standard email procedure from this point.

9.0 The final option in red is to CLEAR the logs, you will get a warning confirming.





WARNING: Clicking YES will permanently delete the logs from the system entirely

10.0 To view the document that is now pulled from the machine. Email it to a laptop or a PC/Desktop. Save the file to a "AV-CC Log" location.

11.0 Go to www.minnich-mfg.com or scan the QR code below to take you to the converter.

12.0 Under VIBRATION > AV-CCII or AV-CCIII, you will see DOWNLOAD LOG CONVERTER



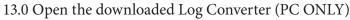
Products / Vibrators / Vibrator Monitoring / AV-CC II

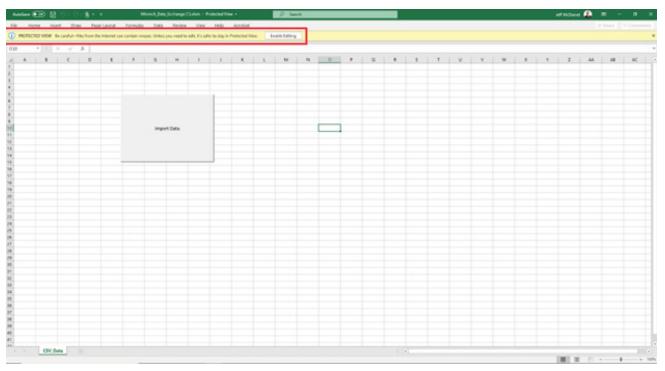
AV-CC II

Gain access to valuable real-time hydraulic vibrator data with the Minnich Auto Vibe CC III system. Auto Vibe CC III monitors up to 48 hydraulic vibrators during the paiving process, recording and displaying live data that can be used to ensure proper vibrator operation. The Minnich system was designed to simplify hydraulic paving vibrator monitoring during heavy highway and airport paving processes. A new, high-visibility, all-weather touch screen monitor offers easy navigation. The IQAN system offers field diagnostics and remote access to Minnich Manufacturing field support.

- · Touch screen controls
- IQAN Remote field diagnostic access to Minnich Manufacturing support
- · Graphical interface
- · Real time readout
- VPM readout of up to 62 vibrators
- · Alarm range settings to maintain proper operation
- · Display centrifugal force
- . Input slump and air entrainment for data log
- · Optional monitoring of temperature and relative humidity
- · Optional monitoring of ground speed and distance traveled
- Auto Vibe II can be installed on any new or existing hydraulic vibrator system.





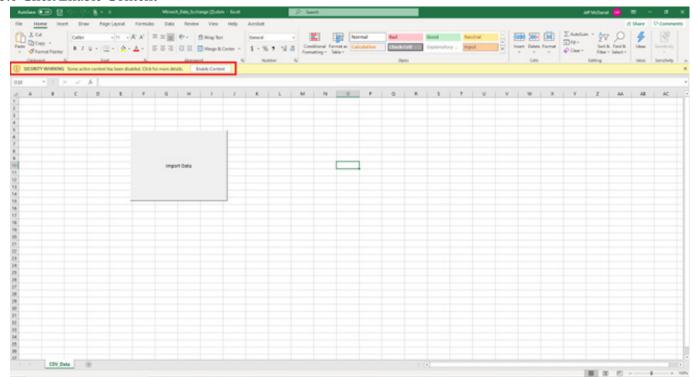


14.0 Click Enable Editing

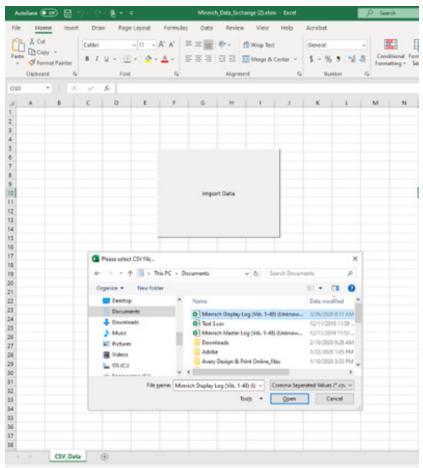


DATA LOGGING

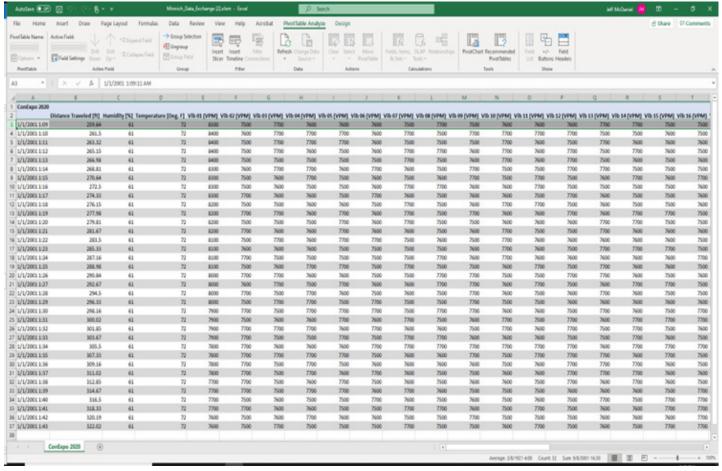
15.0 Click Enable Content



16.0 Click Import Data and choose the file location



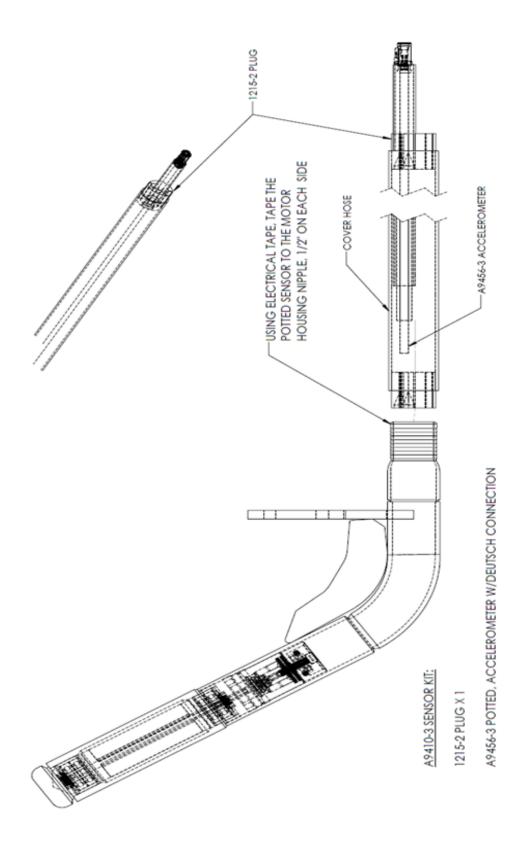
DATA LOGGING



18.0 Here is an example of the log file.

NOTICE

: Please visit WWW.MINNICH-MFG.COM for instructional videos on the new AV-CC system, including videos on installation, monitor settings, and IQANsync log downloads





POTTED SENSOR KIT INSTALLATION

0A9410-00003



STEP ONE

Remove cover, protector hose, clamps, and stopper from vibrator. It should look like picture above when finished.

STEP TWO

Place 0A9456-00001 potted accelerometer assembly on the hydraulic hoses, pushing it firmly up to the base of the barbed nipple of the vibrator motor housing.

STEP THREE

To secure potted sensor, tape the potted sensor (0A9456-00001) to the motor housing nipple. Approximately 1½" on each side.

STEP FOUR

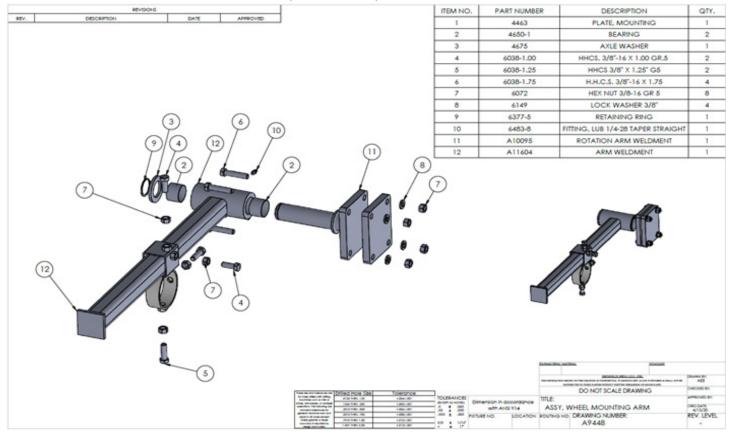
Replace cover hose, protector hose, clamps, and stopper.

Note: Before replacing stopper, loop 8" of sensor cord into the cover hose. This will allow for some forgiveness.

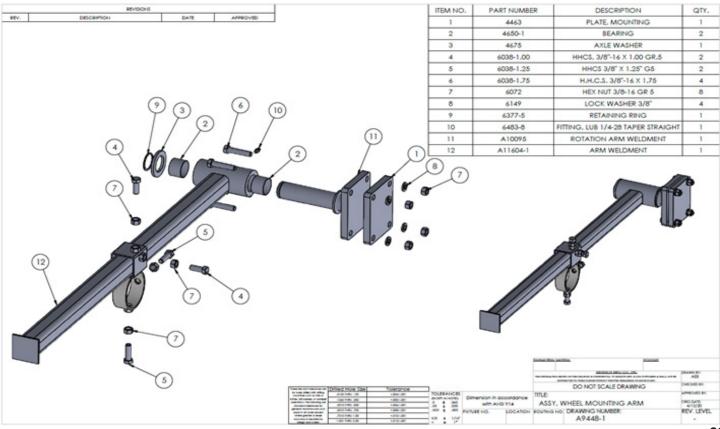
Note: Be sure to use the proper sealant on all stoppers and motor housings.

Note: Use 3M Super 88 11/2" electrical tape to attach the potted sensor to the motor housing nipple. (See Photo)

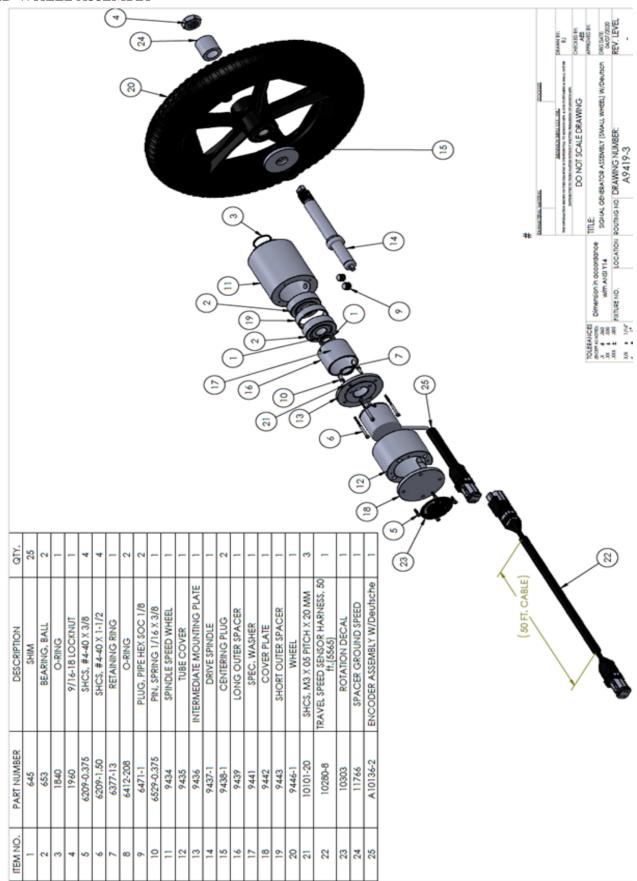
SPEED WHEEL MOUNTING ASSEMBLY (STANDARD)



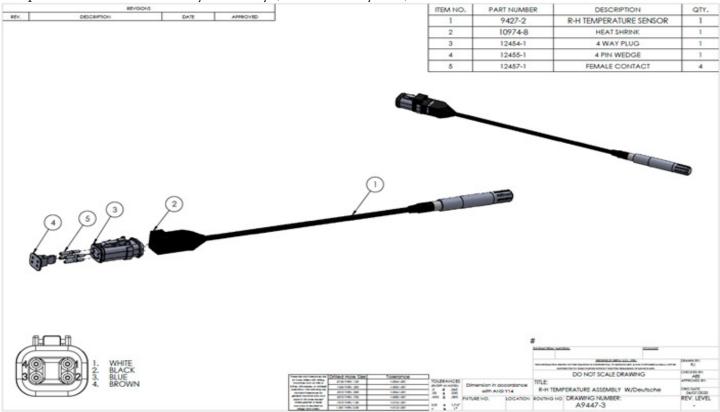
SPEED WHEEL MOUNTING ASSEMBLY (LONG ARM)



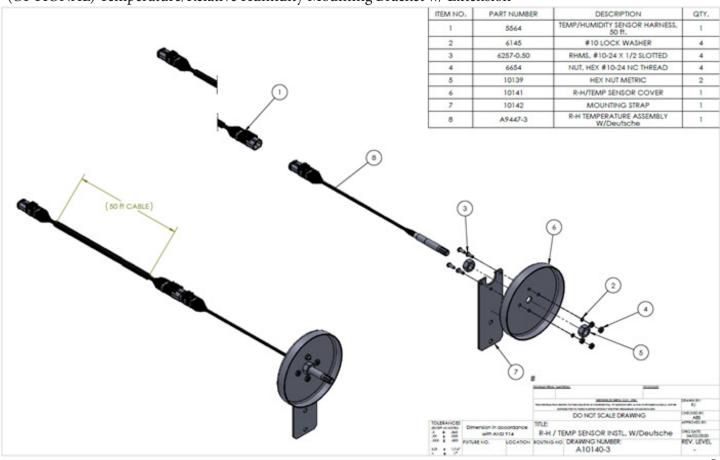
SPEED WHEEL ASSEMBLY



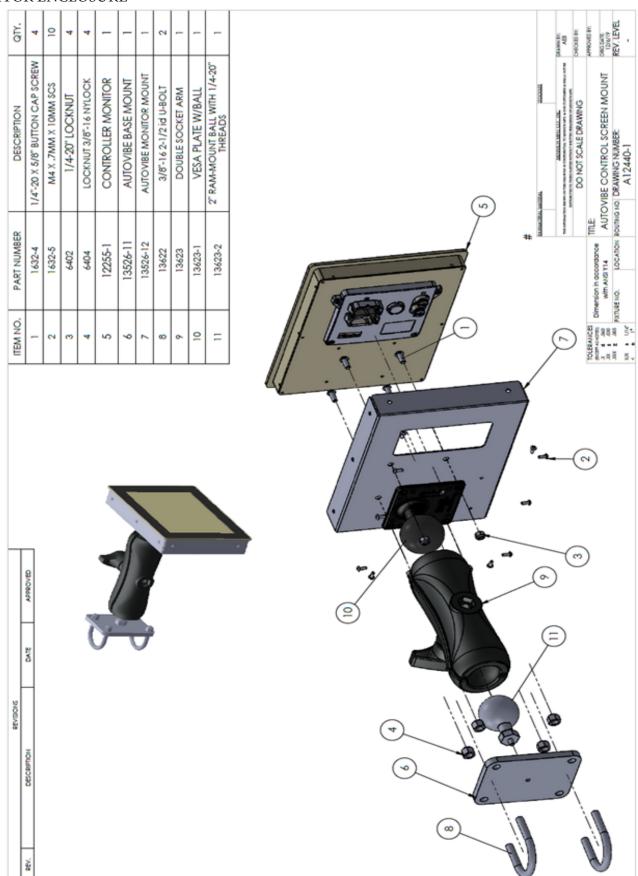
Temperature/Relative Humidity Assembly (Standard w/ System) – IP65 Rated



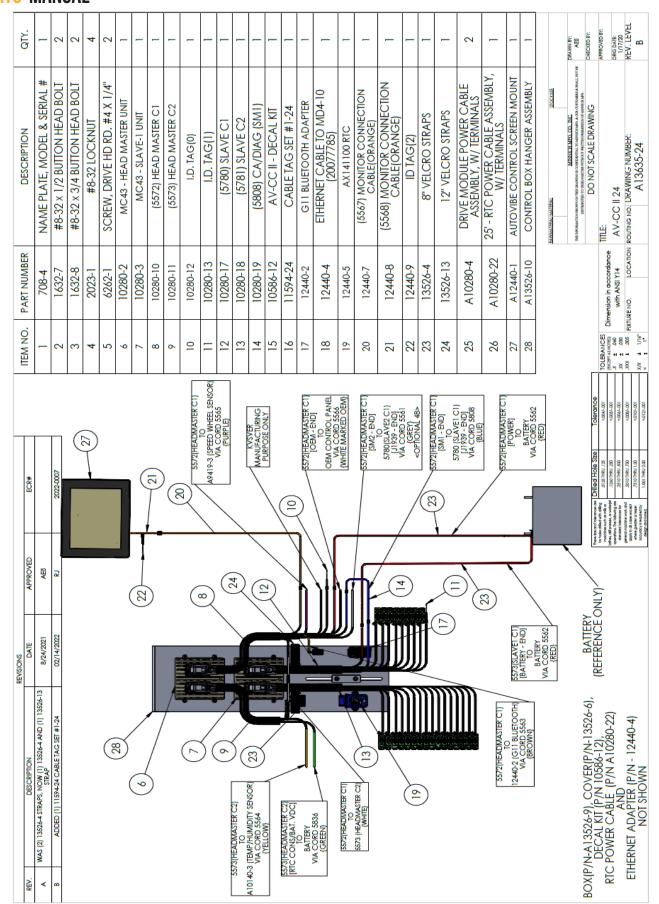
(OPTIONAL) Temperature/Relative Humidity Mounting Bracket w/ Extension

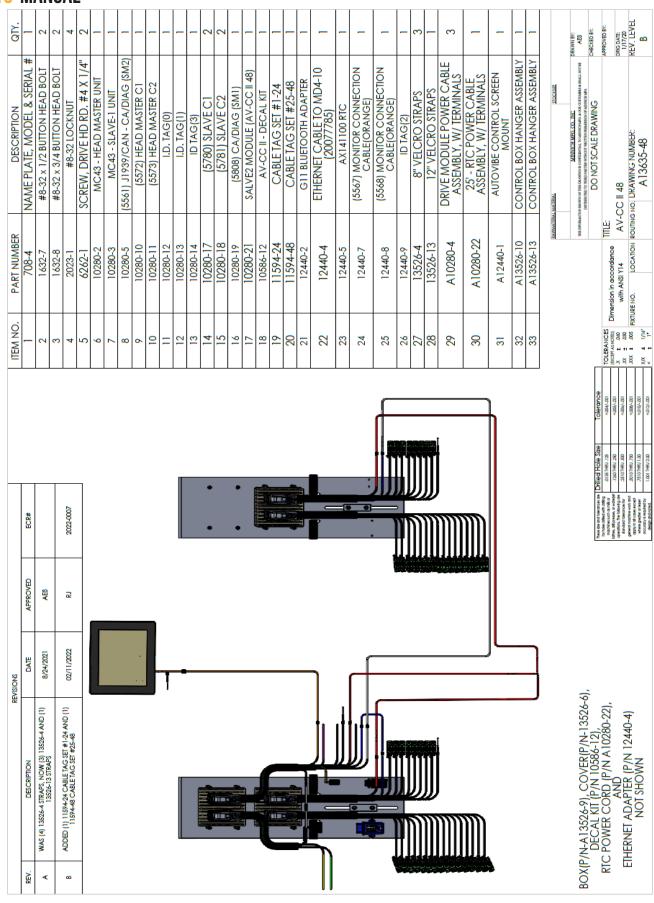


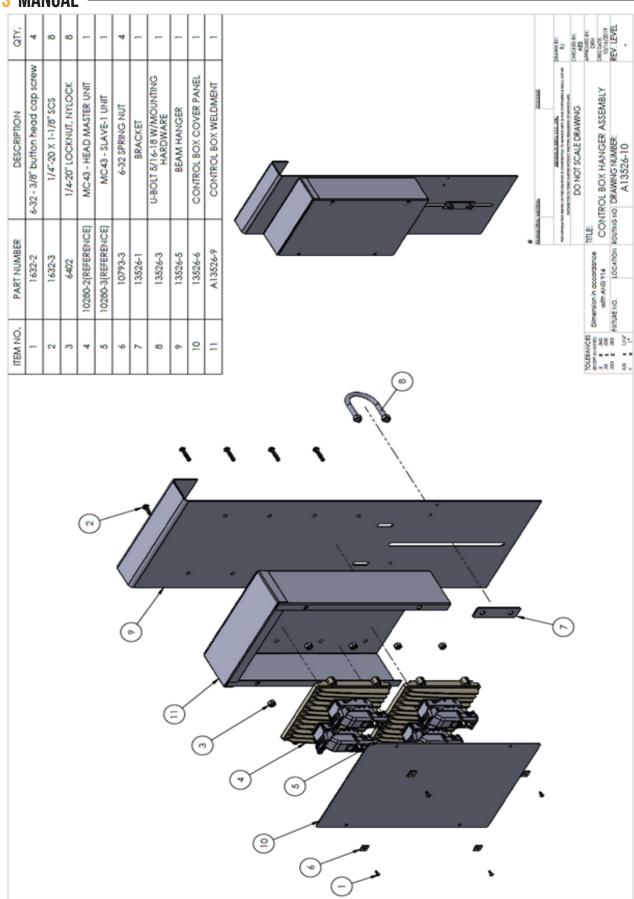
MONITOR ENCLOSURE

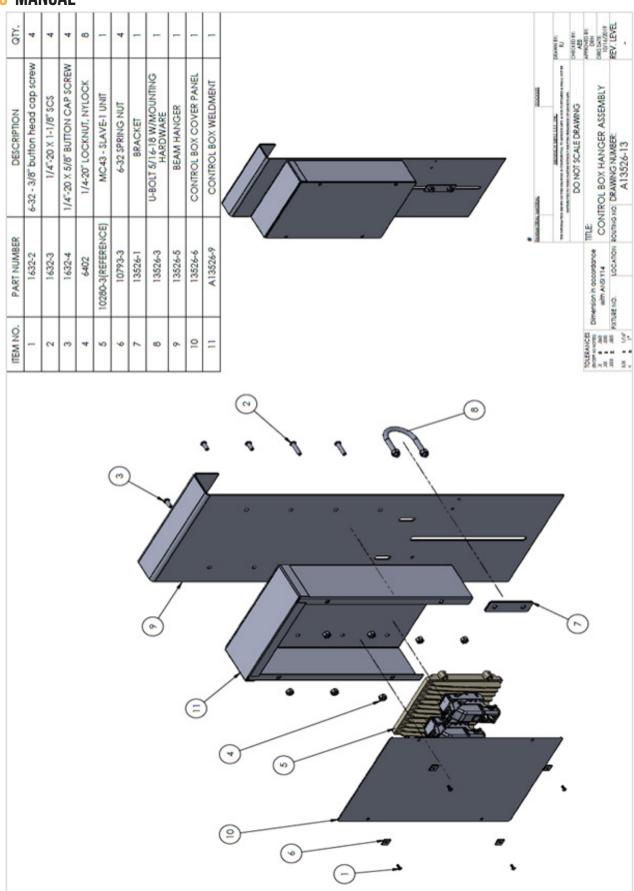


DOWEL DRILL MANUAL









Error codes, messages and actions

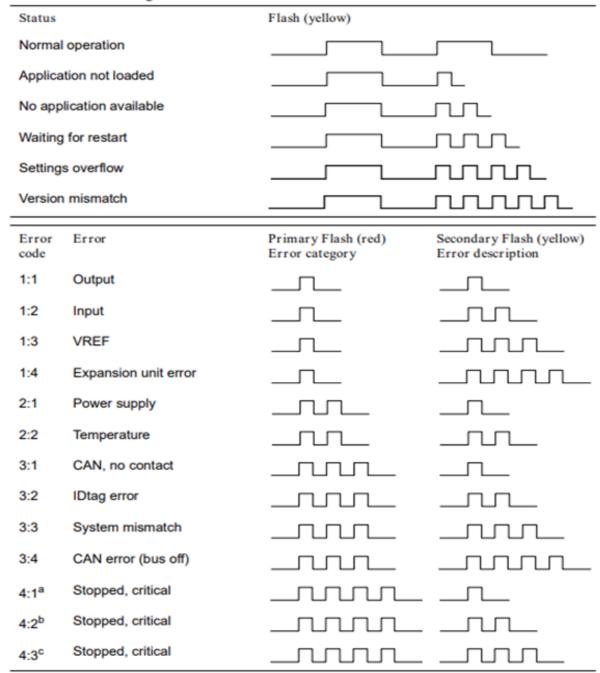
If one of the following error is detected, a message will be presented with an error code on the module. In some cases, the module will turn off or at least shut down the outputs, to increase safety.



WARNING

Don't use the machine if an error message or error code is activated.

LED indicator showing different MC4x modes



- a. Followed by a longer sequence of flashes, contact Parker.
- Followed by a longer sequence of flashes. Possible causes include reverse feed on startup, critical under-voltage and critical temperature.
- Followed by a longer sequence of flashes, contact Parker.

LJ			
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WHAT IS COVERED

This limited warranty ("Limited Warranty") covers manufacturing defects in materials and workmanship of a product.

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(419-903-0010)

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