

MANUAL

AM-100

MARSHALL LOAD FRAME

INSTRUCTION MANUAL

Durham Geo - Enterprises, Inc.

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MANUAL

You have just purchased a Brainard•Kilman AM-100 Marshall Load Frame. As you unpack your Load Frame, please inspect the frame and any accessories for damaged or missing parts. If you find any discrepancies, please contact Brainard•Kilman as soon as possible.

After unpacking the Load Frame, place it on a flat, sturdy surface. The unit is designed to travel at a rate of 2 inches/minute at loads up to 10,000 lbf. The unit is powered by 110V AC, and has two 110V sockets on the back panel for powering accessories.

To use the unit, plug it into a 110V socket. The power indicator on the front will illuminate when this is done. To actuate platen travel, turn the rotary knob on the front panel in the desired direction. To prevent damage to the mechanical components of the frame, overtravel protection is built into the frame. When overtravel occurs, the overtravel indicator illuminates and the machine stops. Reverse the direction to move the platen off the overtravel stop and the indicator light will be extinguished.

MAINTENANCE

The AM-100 has been designed to give you years of trouble free testing. Periodic maintenance will help keep problems to a minimum. The spindle should be oiled weekly. This is achieved by removing the cap screw in the center of the platen and dripping 20 drops of heavy gear oil into the spindle. The chain drive should be greased monthly with chain grease.

**DO NOT OPERATE THE MACHINE WITH THE CENTER SCREW
REMOVED FROM THE PLATEN.**

MANUAL

OPTIONAL ACCESSORIES

The AM-100 is available with several options. These include:

1. Load Cell
2. Digital Readout
3. Strip Chart Recorder

The accessories may be purchased separately or as a set.

To use a Load Cell and Digital Readout, please refer to the instruction manual for these devices. Mount the readout on the bar extending from the AM-100 tie rod. Attach the Load Cell to the cross bar with the 3/4" bolt. Attach the breaking head to the Load Cell.

To use a Strip Chart Recorder, you must have a Digital Readout with an analog output. These features are included in the AM-110 package.

To operate the Recorder, plug it into the back of the AM-100. Attach the analog lead from the Readout as follows:

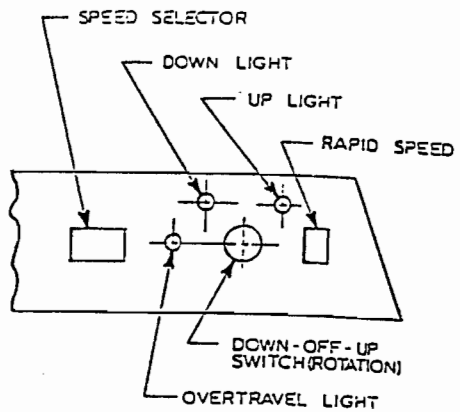
1. Black wire - Y1 (-) terminal on the recorder
2. Red wire - Y1 (+) terminal on the recorder

The Digital Readout, Load Cell, Analog Output and Recorder have been set up at the factory in the following way:

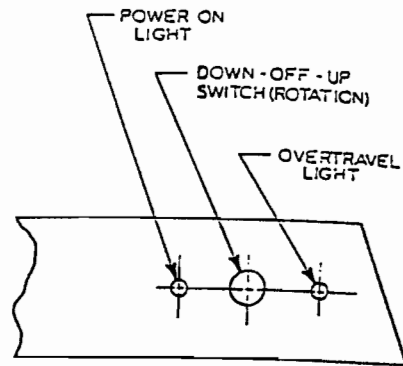
1. Readout and Load Cell: calibrated as a matched pair
2. Analog Output: Set to provide 0V DC at 0 lbs load
Set to provide 10V DC at full load
3. Recorder: set for full scale deflection across the paper at full load

To use the Recorder at other settings, please refer to the Recorder Instruction Manual.

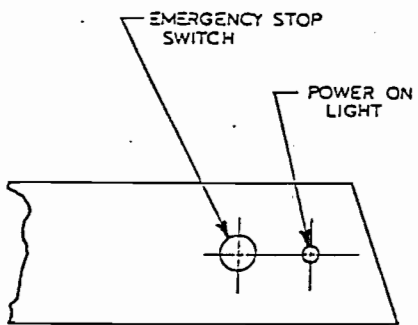
If you have any questions about or problems with the AM-100 and accessories, please call Brainard • Kilman at 1-800-241-9468.



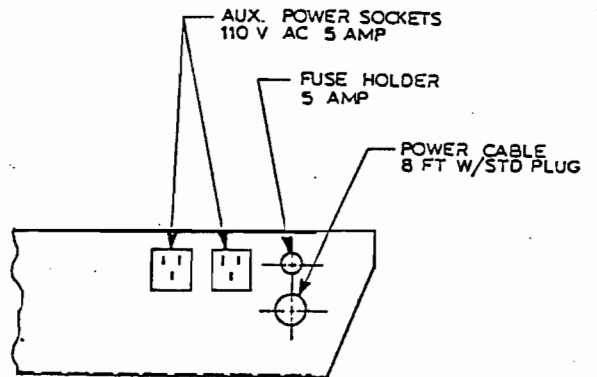
S-610 CBR UCC LOAD FRAME



AM-100 MARSHALL LOAD FRAME



S-600 TRIAXIAL LOAD FRAME



AM-100 MARSHALL LOAD FRAME
S-610 CBR UCC LOAD FRAME

