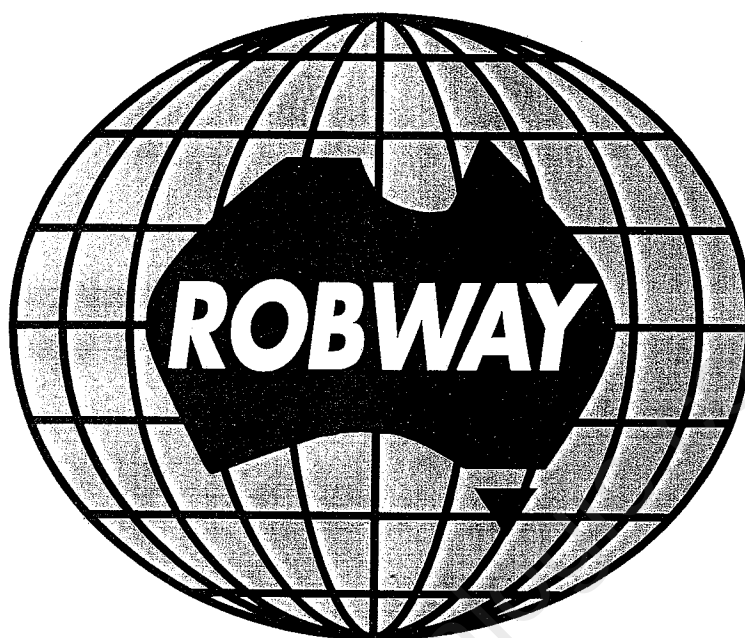




LOAD WEIGHT INDICATOR
(DIGITAL)
MODEL - 975C

ROBWAY SAFETY SYSTEMS PTY. LTD.

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THIS IS A UNIVERSAL SYSTEM AND THESE INSTRUCTIONS ARE INTENDED AS A GUIDE ONLY. SOUND ENGINEERING PRACTICES SHOULD BE EMPLOYED FOR UTMOST PERFORMANCE.

INSTALLATION INSTRUCTIONS

MODEL 975C LOAD WEIGHT INDICATOR.

DESCRIPTION: The Model basically has three components, a hoist cable dynamometer, a digital display, and an inter-connecting cable. The 975C is 0-200 tonnes (100 KG increments). The read-out is in digital form. Parts-of-line selection is via the 1-12 position switch.

The hoist cable dynamometer measures the tension in the hoist cable with a roller deflection system and highly accurate strain gauge load cell. The load cell is powered by the display circuitry and is impervious to the harsh environment associated with craneage.

The interconnecting cable is a four wire shielded cable connected via plug and sockets of military spec. design.

INSTALLATION.

HOIST CABLE DYNAMOMETER - Generally, the dynamometer is mounted near the head of the main boom with four 16mm diameter bolts, alternatively a swinging arm assembly may be installed.

NOTE: The load cell cable exiting from the load-cell must be towards the winch.

STANDARD MODEL 975C SINGLE CABLE. (Refer to back of manual for other models.)

CALIBRATION PROCEDURE.

SET UP - Obtain a test load between 50% to 90% for the capacity of the machine at half maximum parts of line. The actual weight of the test loads, block and ball should be known to 1% or better.

CALIBRATION.

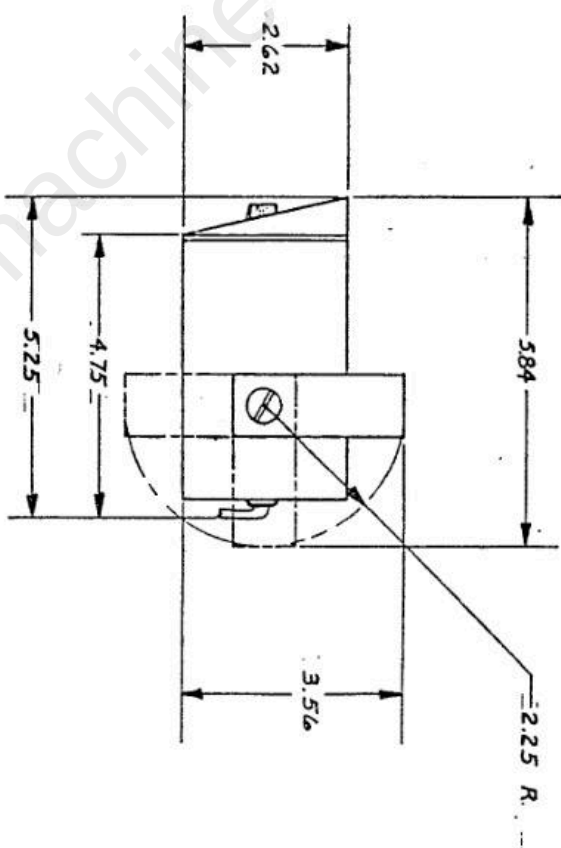
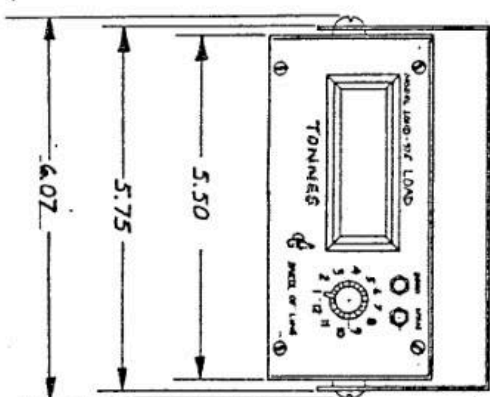
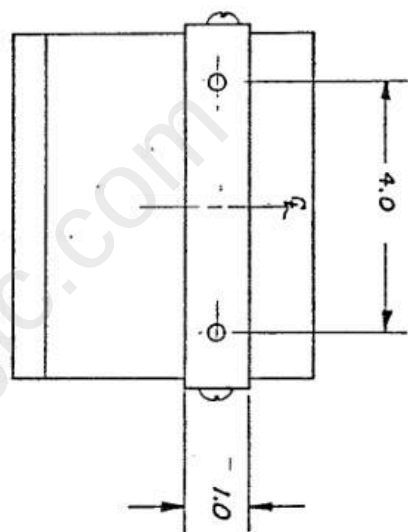
- Step 1. On the display, gently turn the SPAN control clockwise until resistance is felt. Set the PARTS OF LINE selector to 12 parts. The meter should be 'powered up' for at least 15 mins before any adjustments are done.
- Step 2. Lower the block on to the ground by luffing down and with slack cable adjust the ZERO control for "0000" plus or minus 100KG. on the display.
- Step 3. Select the actual number of parts of line reeved on the crane with the PARTS OF LINE selector.
- Step 4. Lift the known load off the ground slowly and stop smoothly. Determine the weight of the hook block, spreader, slings etc. to within 1% accuracy and include in the total weight lifted. The display must read more than the actual weight.
Adjust the SPAN for an accurate weight read-out.
- Step 5. Lower, then raise the load again.
Re-adjust SPAN for an accurate weight read-out if required.
- Step 6. Lower the load gently on to the ground with relaxed slings, the display should read approx. the weight of cable and hook block only.

The calibration is now complete. The calibration should be checked periodically or at any time the display cannot be made to read 0000 plus or minus 100 KG. with zero tension in the hoist line and with the falls selector set at 12 parts of line.

3.3. Calibration of Twin Dynamometer Installation.

REFER PAGE 4 - STANDARD MODEL CALIBRATION PROCEDURE.

- a. Place Fly head-ache ball on the ground with a relaxed cable.
- b. Place Main hook-block on the ground with a relaxed cable.
- c.
 1. Set parts of line selector to 12 parts.
 2. Set Switch-box selector switch to Main position.
 3. Gently turn SPAN clockwise until resistance is felt.
- d. Adjust 'MAIN' zero control to achieve 0000 plus or minus 100KG.
- e. Set Switch-box selector switch to Fly (or WHIP) position.
- f. Adjust 'FLY' (or WHIP) zero control to achieve 0000 plus or minus 100 KG.
- g. Set Switch-box selector switch to 'MAIN' position. Set 'Parts of Line' selector to actual parts of line reeved. Raise a known load of 1% accuracy being at least 50% permissable line pull for parts of line reeved and slowly bring the load to a stop.
Adjust 'MAIN' SPAN/GAIN for a meter reading of the total mass being lifted plus/minus 100KG.
- h. Set Switch-box selector switch to 'FLY' (or WHIP) position. Set 'Parts of Line' selector to actual parts of line reeved. Raise a known load of 1% accuracy being at least 50% permissable line pull for parts of line reeved and slowly bring the load to a stop.
Adjust 'FLY' (or WHIP) SPAN/GAIN for a meter reading of the total mass being lifted plus/minus 100 KG.

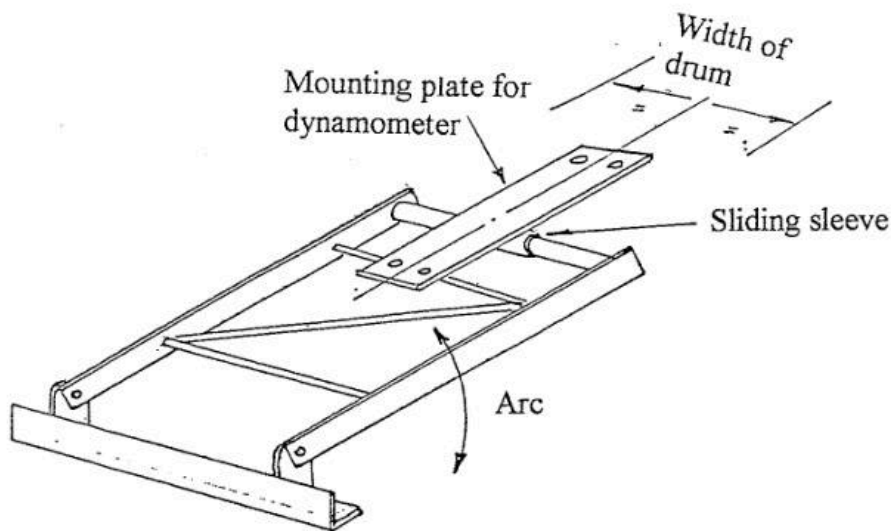


SCALE: NONE	APPROVED BY:	DRAWN BY: S. H. H.
DATE: 4.5.84.		REVISED

INSTALLATION, MODEL LOHD-975C

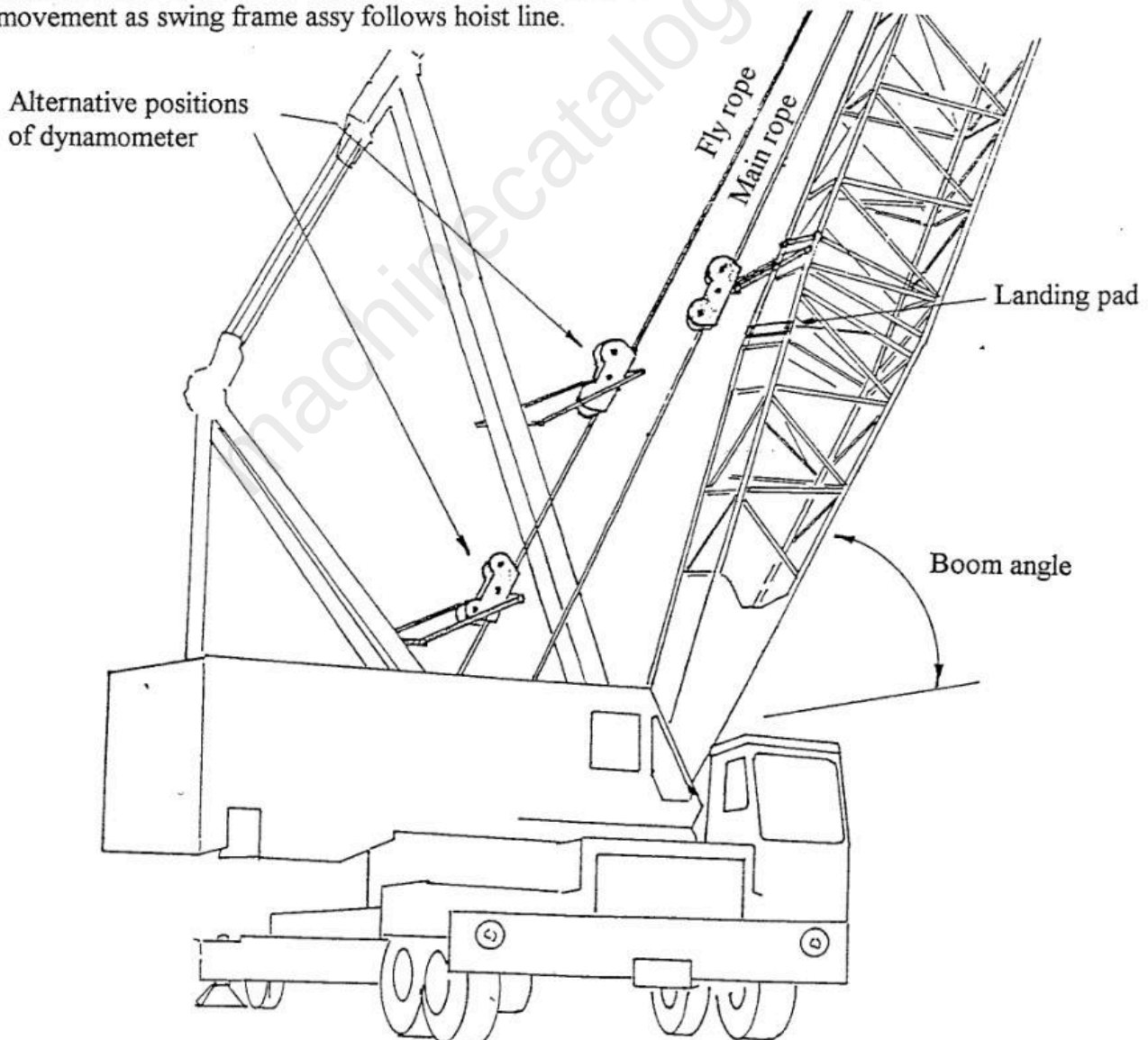
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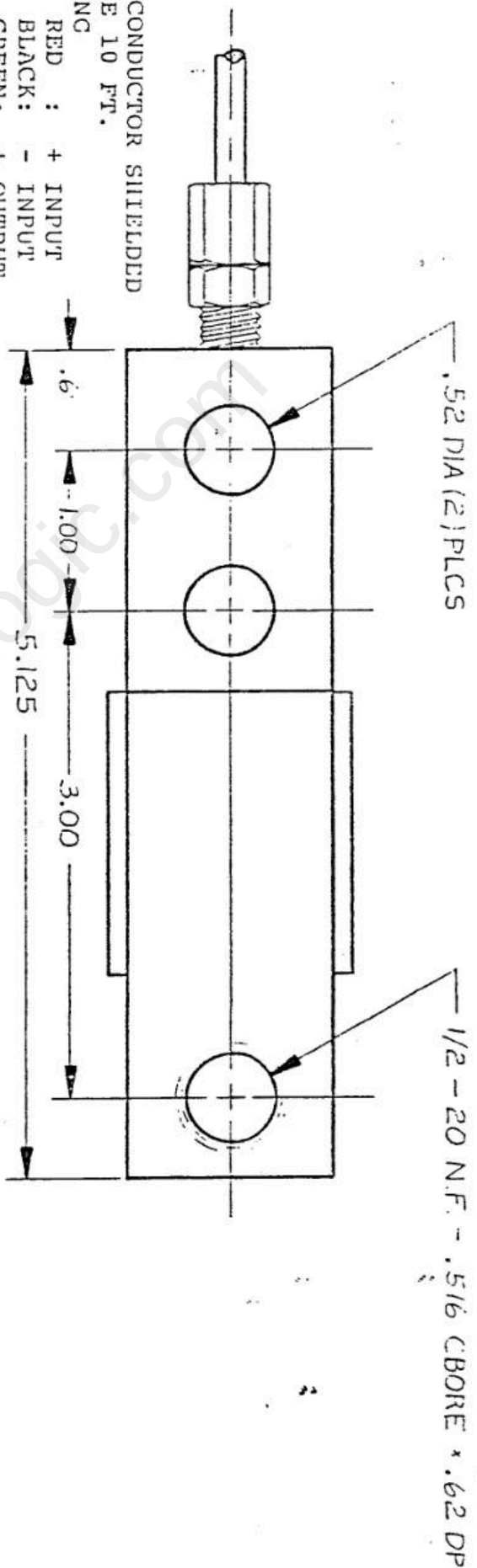


SWING FRAME ASSEMBLY

1. Ensure freedom of obstacles throughout arc as rope line varies from low to high boom angle.
2. Position of swing frame base on boom section to suit individual installations.
3. Length of swing frame to suit distance between boom top face and rope when at maximum. Hoist rope natural line to be maintained for all boom angles.
4. (i) Width and/or position of base to suit boom detail.
(ii) Width of swing frame to suit hoist drum fleet.
5. Dynamometer hydrastatic capillary or electronic load cell cable to be safely secured with freedom of movement as swing frame assy follows hoist line.

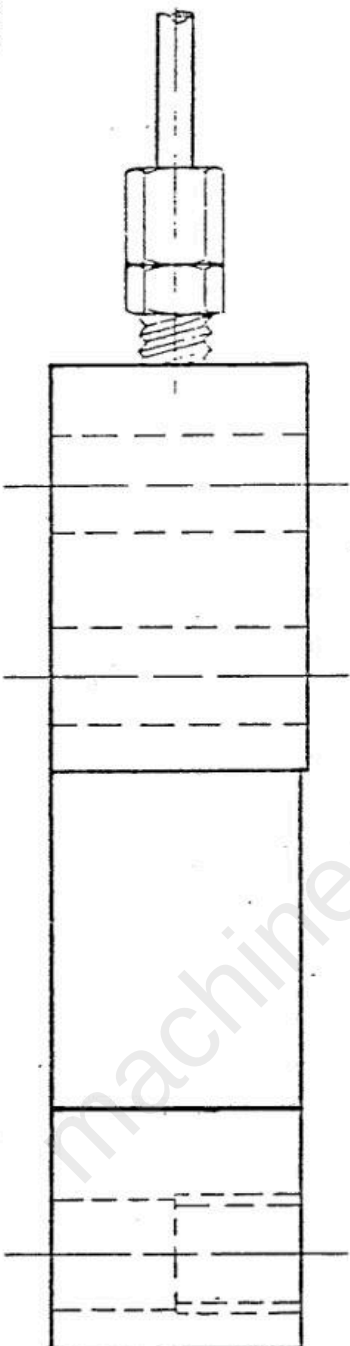


(4) CONDUCTOR SHIELDED
CABLE 10 FT.
WIRING
RED : + INPUT
BLACK: - INPUT
GREEN: + OUTPUT
WHITE: - OUTPUT



SPECIFICATIONS

1. RATED CAPACITY-----0-5000# lbs.
2. SAFE OVERLOAD-----200% of Rated Capacity
3. BRIDGE RESISTANCE-----350 ohm
4. RATED EXCITATION-----15V maximum



Model HRT-3 and HRT-6 DYNAMETER LOAD-CELL.

Full Version Available

Robway 975C Load Moment Indicator Service Manual

Robway 975C load moment indicator service manual, with repair, calibration and fault diagnosis information for Franna machines. Instant PDF download.

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