Chapter 4

OPERATION

- Assemble the required extension arms *(3.2. Extension Arms)*.
- Place the PIT GAGE on a known flat surface. Press the zero button *(Fig. 6-C)* holding the PIT GAGE in place for 2 seconds.
- Place indicator tip in surface variations for measurement.

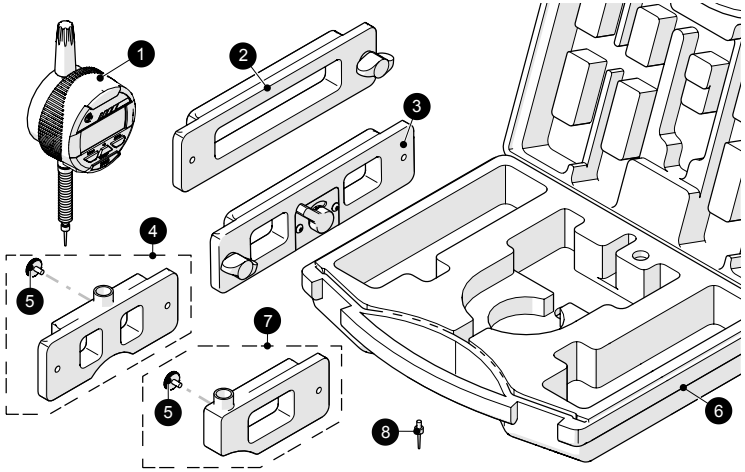
Chapter 5

TROUBLESHOOTING

Issue	Resolution:
CAL shows on screen	Slowly lift and lower the spindle until a number shows on the screen, the device is now calibrated.
Err04 (overspeed error) shows on screen	Press and release the ZERO button, wait till the screen shows CAL, then slowly lift and lower the spindle until a number shows on the screen.

Chapter 6

SPARE PARTS



BOM ID	Part #	Description
1	PGS008	Digital Indicator: 0 - 2.54 cm *(0 - 1.0 in)*, Rotating Face
2	PGS004	Extension Arm
3	PGS005-X	Magnetic Extension Arm *(L or R available)*
4	PGS006	Centre Base
5	EA178	Knurled Knob, M3 x 0.5 x 6 mm, SST
6	PGA005	Pit Gage Case with Foam
7	PGS007	Blind Side Base
8	EA179	Indicator Tip

Jireh Industries

Canada | 780.922.4534
USA | 832.564.0626
Europe | +31 85 002 0801
jireh.com

PIT GAGE

PG0025 Rev 02
Manual Pit Inspection Tool

JIREH

Chapter 1

SPECIFICATIONS

Range of motion	0 - 2.54 cm *(0 - 1.00 in)*
Operating environment	-10° C *(14° F)* and 50° C *(122° F)*
Environmental sealing	Waterproof *(IP67)*
Battery requirement	2 - CR2032 lithium coin cells

WARNING Can be harmful to pacemaker and ICD wearers. Stay at least 25 cm *(10 in)* away.

Chapter 2

COMPONENTS

Fig. 1: Digital indicator

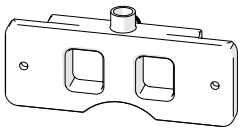


Fig. 2: Centre base

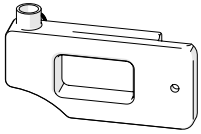


Fig. 3: Blind side base

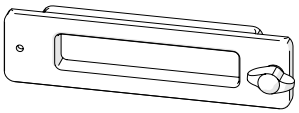


Fig. 4: Extension arm

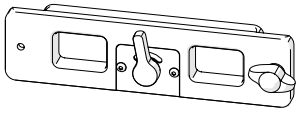


Fig. 5: Magnetic arm

Chapter 3

OPERATING INSTRUCTIONS

3.1. Digital Indicator *(Fig. 6)*

A	ON/ OFF	Power button. Press and release to activate the indicator. Press and hold for 3 seconds to turn off.
B	IN/mm	Toggles the display between imperial and metric measurements.
C	ZERO	Place the gage on a known flat surface. Press and release the **ZERO** button to calibrate the unit. *(Gage must not be moved until two seconds have elapsed).*
A	+/-	Plus/minus sets the direction of the reading.

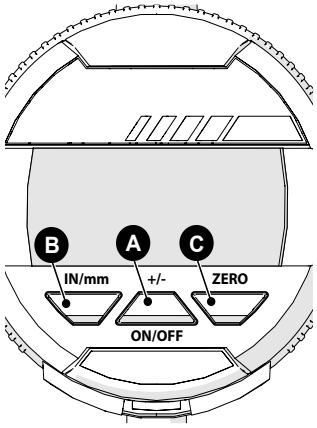


Fig. 6: Digital indicator

3.2. Extension Arms

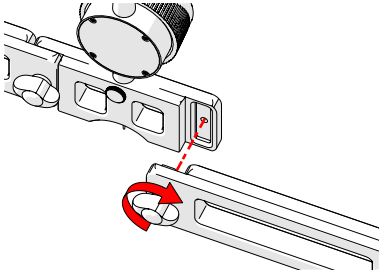


Fig. 7: Tighten thumb screw

- Align the receiving component's hole *(centre base, blind side base, arms)* with the thumb screw *(Fig. 7)* of the connecting component.
- Ensure correct arm orientation when using magnetic arms.
- Place magnetic arms furthest from indicator for optimal stability.
- A small radius on the bottom surface assists with measuring along the length of small diameter pipes.

3.3. Indicator Adjustments

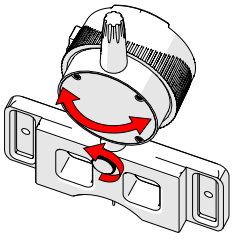


Fig. 8: Loosen to pivot indicator

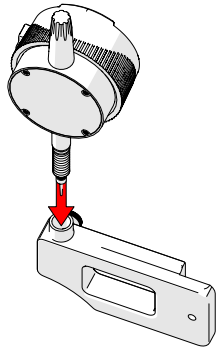


Fig. 9: Centre base or blind side base

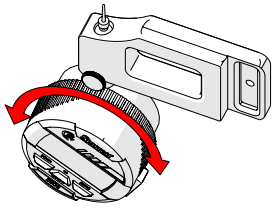


Fig. 10: Rotate indicator face

- Loosen the thumb screw to pivot the indicator when required *(Fig. 8)*.
- Loosen thumb screw to switch indicator for use with either base *(Fig. 9)*.
- Rotate the indicator face during inverted scanning *(Fig. 10)*.

3.4. Optional Magnetic Arm *(Fig. 11)*

- The red lever controls the amount of magnetic attraction.
- Pivot the lever left to disengage all magnetism, pivot the lever to the right to engage full magnetism.

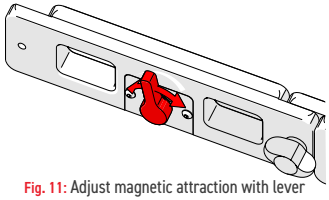


Fig. 11: Adjust magnetic attraction with lever

3.5. Blind Side Base *(Fig. 12)*

- Use to measure when centre base is not appropriate *(i.e. close to a weld or flange)*.
- Pivot indicator 90° for additional clearance.

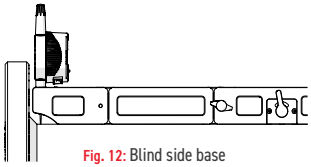


Fig. 12: Blind side base