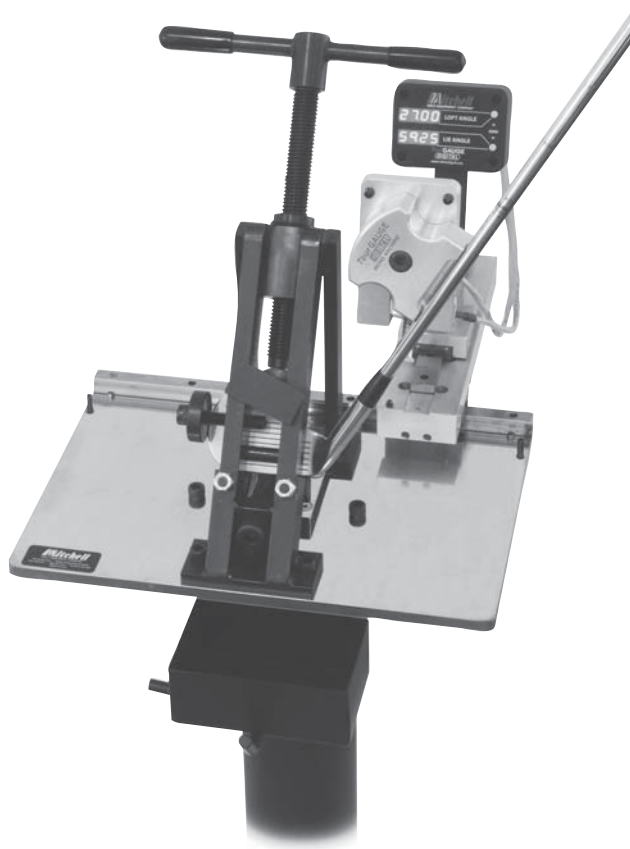


TourGAUGE®
DIGITAL
IRONS MACHINE

Operating & Maintenance
MANUAL



TourGAUGE®

DIGITAL

IRONS MACHINE

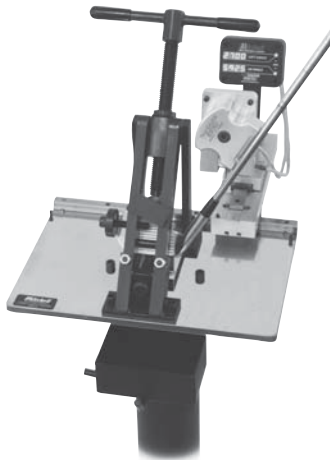
U.S. Patent No. 5,421,098 & 5,884,409

*"Thank You for purchasing the golf industry's state-of-the-art **TourGAUGE® Digital Irons Machine**. You should find it simple to operate. Please follow the instructions in this manual. If you have any questions, please call 800-437-1314."*



- Ed Mitchell, PGA

IMPORTANT NOTICE



Your **TourGAUGE® Digital Irons Machine** is a precision gauge.

When measuring a particular iron in your **TourGAUGE® Digital Irons Machine**, the angle readings are correct. When these angle readings are compared to the published standards for that iron and are found to be different, then that particular iron does not meet those standards.

If you compare the loft/lie angles of a particular iron measured in other machines to a **TourGAUGE® Digital Irons Machine** there may be a difference. That is because some machines do not adjust for offset, progressive offset, non-offset, or face progression hosel positions and therefore give inaccurate and inconsistent readings. You can measure any iron in a **TourGAUGE® Digital Irons Machine** accurately.

"THE INDUSTRY STANDARD FOR ACCURACY"

GUARANTEE

All products manufactured by Mitchell Golf Equipment Company are guaranteed against defects and workmanship. Replacement or repair will be at the discretion of Mitchell Golf Equipment Company.

Copyright © 2010 Mitchell Golf Equipment Company

This **TourGAUGE® Digital Irons Machine**

Was Manufactured For:

Purchased By: _____ Date: _____

Serial #: _____

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U.S. Patent No. 5,421,098 & 5,884,409

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Digital Display Start-Up Procedure	3
Club Head Registration & Clamping	4
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Guide: Irons Loft/Lie Length Specifications	7

MAINTENANCE

TourGAUGE® Digital Irons Machine

1. Clean occasionally with WD-40 to prevent corrosive build up (**Face Fixture** (#3) only).
2. Face Tape: As needed, clean off old tape on backside of **Face Fixture** (#3) and replace with two new pieces of tape, cut approximately 2½" long from the roll. Peel the back off the tape and place on the backside of **Face Fixture** (#3), directly above the **Iron Sole Clamps** (#13). Make sure tape is pressed on evenly by rubbing with a hard object, such as a coin.
3. Keep a small amount of Vaseline or grease on the bottom end of the **Top Worm Screw** (#1).

TECHNICAL ASSISTANCE

Call: 800-437-1314 **Hours:** Mon–Fri 8am - 5pm (Eastern Time)

Email: info@mitchellgolf.com

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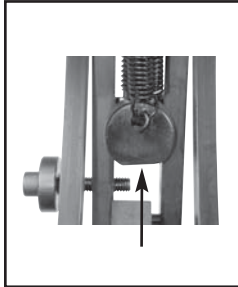
IRONS MACHINE

U.S. Patent No. 5,421,098 & 5,884,409

PARTS



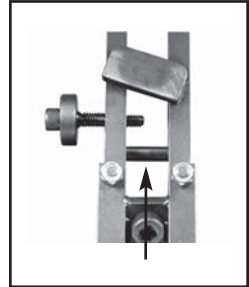
Top Worm Screw (#1)



Top Iron Clamp (#2)



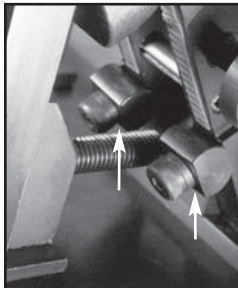
Face Fixture (#3)



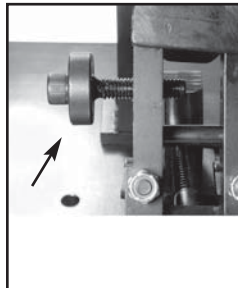
Horizontal Dowel Pin (#4)



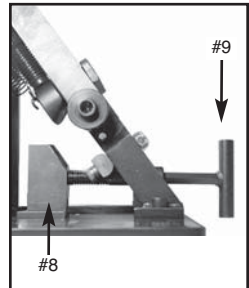
Loft/Lie Angle Gauge Assembly (#5)



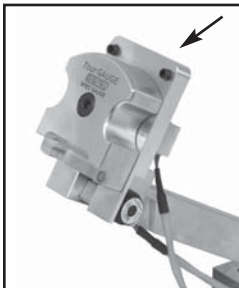
Iron Sole Clamps (#6)



Toe Stop (#7)



Back Iron Clamp (#8)
T-Wrench (#9)



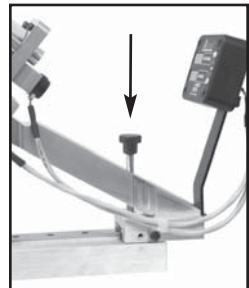
Vertical Loft Angle Gauge Plate (#10)



Shaft Abutment Cradle (#11)



Digital Display (#12)



Loft/Lie Alignment Pin (#13)

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OPERATING INSTRUCTIONS

Digital Display Start-Up Procedure

- 1** Plug in transformer or battery pack into **Digital Display** (#14) and turn on using the Power Switch on the back of the display. *See Illustration 1.*
- 2** Return **Vertical Loft Angle Gauge Plate** (#10) to 36° position or parallel to front of **Face Fixture** (#3). Press in **Loft/Lie Alignment Pin** (#13) into Loft Alignment Hole until firmly seated and hold in place. *See Illustration 2.*
- 3** Press Loft Zero Button on **Digital Display** (#12). Remove **Loft/Lie Alignment Pin** (#13).
- 4** Return **Shaft Abutment Cradle** (#11) to a vertical position (The logo should be readable). Press in **Loft/Lie Alignment Pin** (#13) into Lie Alignment Hole until firmly seated and hold in place. *See Illustration 3.*
- 5** Press Lie Zero Button on **Digital Display** (#12). Remove **Loft/Lie Alignment Pin** (#13) and return to Loft/Lie Alignment Pin Holder. *See Illustration 4.*



Illustration 1

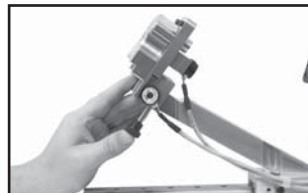


Illustration 2

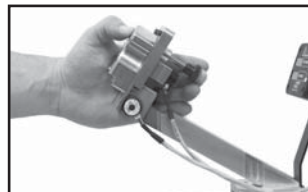


Illustration 3

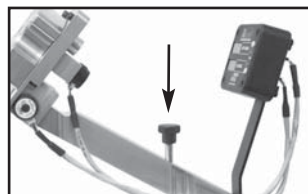


Illustration 4

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OPERATING INSTRUCTIONS

Club Head Registration & Clamping

- 1** Push the **Loft/Lie Angle Gauge Assembly** (#5) to the back of the machine to allow room to insert the club head.
- 2** Loosen the **Top Worm Screw** (#1) that adjusts the **Top Iron Clamp** (#2) that holds the iron head in place.
- 3** Insert club head into back of **Face Fixture** (#3), setting the club sole on the two **Iron Sole Clamps** (#6) and the toe of the club touching the **Toe Stop** (#17). Adjust club head so the score lines are parallel to the **Horizontal Dowel Pin** (#4) that is in between the **Face Fixture** (#3) by adjusting the **Toe Stop** (#7) inward or outward. Make sure club head is flush against the back of the **Face Fixture** (#3) then tighten the **Top Worm Screw** (#1). See *Illustrations 5 & 6*.
- 4** If necessary use the **T-Wrench** (#9) to tighten the **Back Iron Clamp** (#8) against the back of the iron sole. See *Illustration 7*.

NOTE: Use the **Back Iron Clamp** (#8) only when the club face does not clamp flush against the **Face Fixture** (#3) or when the club head slips when bending. These conditions are caused by the sole design on only a few models of clubs. **Do not use the Back Iron Clamp** (#8) on every iron. It will slow down your bending time and is not necessary to use on every club.

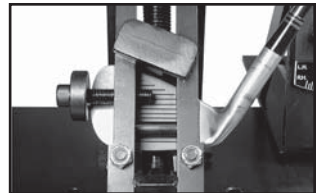


Illustration 5

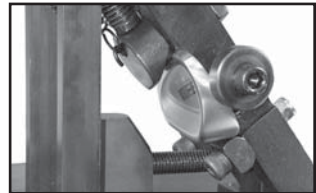


Illustration 6



Illustration 7

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OPERATING INSTRUCTIONS

Measuring & Adjusting Loft/Lie Angles

- 1** Slide the **Loft/Lie Angle Gauge Assembly (#5)** forward and to the side until shaft makes contact with the **Shaft Abutment Cradle (#11)**. The **Vertical Loft Angle Gauge Plate (#23)** tilts forward & backward and the **Shaft Abutment Cradle (#11)** rotates to allow the shaft to lay flush against both walls of the **Shaft Abutment Cradle (#11)**. Two magnets hold the shaft against the **Shaft Abutment Cradle (#11)**. See *Illustration 8*.
- 2** Read the **Loft LED Readout** on the **Digital Display (#14)** for the loft measurement. See *Illustration 9-A*.
- 3** Read the **Lie LED Readout** on the **Digital Display (#14)** for the lie measurement. See *Illustration 9-B*.
- 4** Slide **Loft/Lie Angle Gauge Assembly (#5)** to back of machine. Place **Adjustable Bending Bar** on hosel as low as possible. Adjust bar to snug fit (finger tight) by turning knurled knob at end of bar. See *Illustration 10*.
- 5** To bend hosel apply light pressure to bending bar in the direction of desired bend until it is seated firmly against hosel. Apply short, quick jolts of bending pressure to bend hosel. Re-measure club and re-bend if necessary to desired angles.

(Continued on next page...)

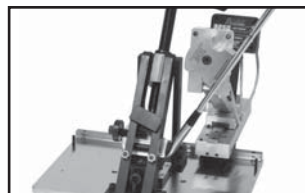


Illustration 8



Illustration 9



Illustration 10

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OPERATING INSTRUCTIONS

Loft/Lie Continued...

- 1** To adjust lie angle bend up to make more upright and down to make flatter. The shaft should move in a plane parallel to the front of the machine. See *Illustration 11*.
- 2** To adjust the loft angle bend back (up) to deloft or bend forward (down) to add loft to the club. The shaft should move in a plane parallel to the side of the machine. See *Illustration 12*.

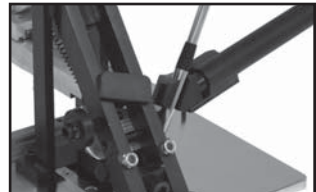


Illustration 11

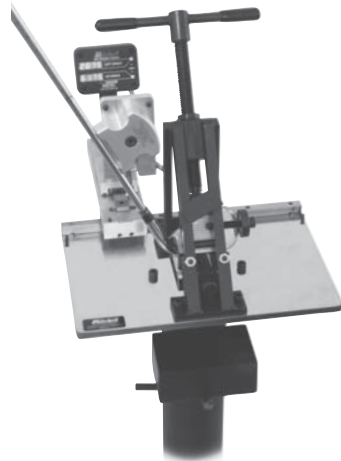


Illustration 12

Convert To Left Hand

- 1** Slide the **Loft/Lie Angle Gauge Assembly** (#5) back and to the left side of the machine.
- 2** Remove the **Toe Stop** (#7) from the left hand side of the **Face Fixture** (#3) and screw it into the hole on the right hand side.
- 3** To measure and bend, repeat the same steps per instructions on **Pages 4-6**

NOTE: Due to the high level of accuracy of digital measurement loft/lie readings may experience 1/4° variance.



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We Make Equipment That Make Golf Clubs Play Better™

GUIDE: IRONS LOFT/LIE/LENGTH SPECIFICATIONS

CLUB	OLD AVERAGE			MODERN AVERAGE			NEW MODERN AVERAGE		
	LOFT	LIE	LENGTH	LOFT	LIE	LENGTH	LOFT	LIE	LENGTH
1 IRON	17	56	39	16	56	39.5	15	58.5	40
2 IRON	20	57	38.5	18	57	39	17	59	39.5
3 IRON	23	58	38	21	58	38.5	20	60	39
4 IRON	26	59	37.5	24	59	38	23	60.5	38.5
5 IRON	30	60	37	28	60	37.5	26	61	38
6 IRON	34	61	36.5	32	61	37	30	61.5	37.5
7 IRON	38	62	36	36	62	36.5	34	62	37
8 IRON	42	63	35.5	40	63	36	38	62.5	36.5
9 IRON	46	64	35	44	64	35.5	42	63	36
P.W.	50	64	35	48	64	35.5	46	63.5	35.5
S.W.	56	64	35	56	64	35.5	56	64	35

This is only a guide and does not represent a “standard” for all brands of golf clubs.

When clubs are “custom fitted”, the specifications can vary.



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03/24/2010