# **TourGAUGE** Irons Machine

# Operating & Maintenance MANUAL





# Tour GAUGE® Irons Machine

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



"Thank You for purchasing the golf industry's state-of-the-art *Tour*GAUGE® Irons Machine. You should find it simple to operate. Please follow the instructions in this manual. If you have any questions, please call 1-800-437-1314."

-Ed Mitchell

#### **IMPORTANT NOTICE**



Your *Tour*GAUGE® Irons Machine is a precision gauge.

When measuring a particular club in your *Tour*GAUGE<sub>®</sub> Irons Machine, the angle readings are correct. When these angle readings are compared to the published standards for that club and are found to be different, then that particular club does not meet those standards.

If you compare the loft/lie angles of a particular club measured in other machines to a *Tour*GAUGE® 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 club in a *Tour*GAUGE® 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.

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	This <i>Tour</i> GAUGE®	Irons Machine
	Was Manufact	ured For:
Purchased by:		Date:
	Serial Number #	

# Tour GAUGE® Irons Machine

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#### **MAINTENANCE**

#### TourGAUGE® Irons Machine

- 1. Clean occasionally with WD-40 to prevent corrosive build up.
- 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 2¹/₂¹¹ 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 1-800-437-1314 Monday – Friday 8:00 a.m.- 5:00 p.m. Eastern Time EMAIL: info@mitchellgolf.com

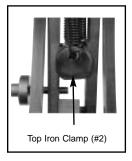
#### **TourGAUGE®**

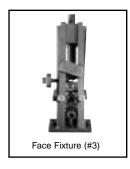
# **TourGAUGE** Irons Machine

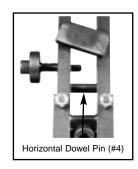
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### **PARTS**



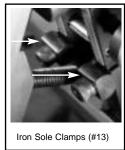


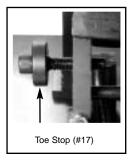


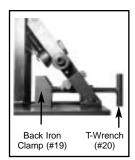






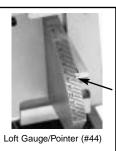












### **TourGAUGE**®

#### **TourGAUGE®** Irons Machine

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#### **OPERATING INSTRUCTIONS**



Illustration 1 -



Illustration 2 -



Illustration 3 -

## Club Head **Registration & Clamping**

Push the Loft/Lie Gauge Assembly (#7) to the back of STEP the machine to allow room to insert the club head.

Loosen the Top Worm Screw (#1) that adjusts the Top Iron Clamp (#2) that holds the iron head in place.

Insert club head into back of Face Fixture (#3), setting STEP 3 the club sole on the two Iron Sole Clamps (#13) 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 (#17) 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 1 and 2.

If necessary use the T-Wrench (#20) to tighten the Back **Iron Clamp** (#19) against the back of the iron sole.

See Illustration 3.

NOTE: Use the Back Iron Clamp (#19) 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 (#19) on every iron. It will slow down your bending time and is not necessary to use on every club.

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#### **OPERATING INSTRUCTIONS**



Illustration 4 -



Illustration 5 -



Illustration 6 -



Illustration 7 -

#### Measuring & Adjusting Loft/Lie Angles

Slide the Loft/Lie Angle Gauge Assembly (#7) forward and to the side until shaft makes contact with the Shaft Abutment Cradle (#43). The vertical Lie Angle Gauge Plate (#23) tilts forward & backward and the Shaft Abutment Cradle (#43) rotates to allow the shaft to lay flush against both walls of the Shaft Abutment Cradle (#43). Two magnets hold the shaft against the Shaft Abutment Cradle (#43). See Illustration 4.

Read the loft on the Loft Gauge/Pointer (#44) directly in front of the Loft/Lie Angle Gauge Assembly (#7) See Illustration 5.

Read the lie angle on the **Lie Scale** (#8) at the top of the **Lie Angle Gauge Plate** (#23) indicated by the pointer on the **Shaft Abutment Cradle** (#43). Read the lie angle as designated R.H. or L.H.

STEP 4 Slide Loft/Lie Angle Gauge Assembly (#7) to back of machine. Place Adjustable Bending Bar (#34) on hosel as low as possible. Adjust bar to snug fit (finger tight) by turning knurled knob at end of bar. See Illustration 7.

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.)

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### **OPERATING INSTRUCTIONS**



Illustration 8 -

### Illustration 8.



Illustration 9 -

#### Loft/Lie Continued...

machine. See Illustration 9.

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

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

### Convert To Left Hand



Slide the Loft/Lie Angle Gauge Assembly (#7) back and to the left side of the machine.



hand side.

Remove the **Toe Stop** (#17) from the left hand side of the Face Fixture (#3) and screw it into the hole on the right

To measure and bend, repeat the same steps per instructions on pages 3, 4 and 5. Read the lie for left hand, denoted by "L.H." on the Lie Angle Gauge (#8). Read the loft on the Loft Gauge/Pointer (#44).



#### Tour GAUGE®



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#### We Make Equipment That Make Golf Clubs Play Better™

### **GUIDE: IRONS LOFT/LIE/LENGTH SPECIFICATIONS**

	OLD STANDARD		MODERN STANDARD			NEW MODERN STANDARD			
CLUB	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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