



Operating & Maintenance MANUAL





U.S. Patent No. 4,620,431



"Thank You for purchasing the golf industry's state-of-the-art STEELCLUB® Signature Irons Angle Machine. You should find it simple to operate. Please follow the instructions in this manual. Be sure to mount the stand into the floor and attach the machine before attempting to use it. If you have any questions, please call 1.800.437.1314."

– Ed Mitchell

IMPORTANT NOTICE



Your **STEELCLUB®** Signature Irons Angle Machine is a precision gauge.

When measuring a particular golf club in your **STEELCLUB®** Signature Irons Angle 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 iron measured in other machines to a **STEELCLUB®** Signature Irons Angle 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 **STEELCLUB®** Signature Irons Angle 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 **STEELCLUB®** Signature Irons Angle Machine
Was Manufactured For:

Purchased by: _____ Date: _____

Serial Number # _____



INDEX

STEELCLUB® SIGNATURE IRONS ANGLE MACHINE PARTS2
IRONS – CLUB HEAD REGISTRATION & CLAMPING3
IRONS – MEASURING LOFT/LIE ANGLES4
IRONS – ADJUSTING LOFT/LIE ANGLES5
IRONS – CONVERT TO LEFT HAND6
GUIDE: IRONS LOFT/LIE/LENGTH SPECIFICATIONS7

MAINTENANCE

STEELCLUB® Signature Irons Angle 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 2 1/2" 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** (#12). 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) where it makes contact with **Top Clamp** (#2).

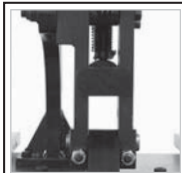
TECHNICAL ASSISTANCE

Call 1-800-437-1314 Monday – Friday 8:00 a.m.- 5:00 p.m. Eastern Time
 EMAIL: info@mitchellgolf.com

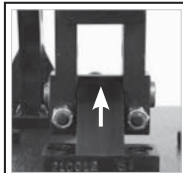
PARTS



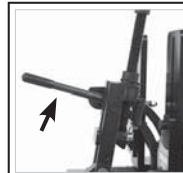
Top Worm Screw (#1)



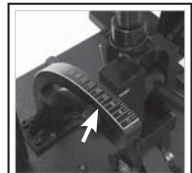
Face Fixture (#3)



Round Pivot Bracket (#4)



Locking Arm (#5)



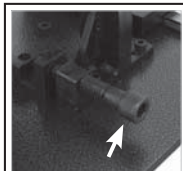
Loft Gauge (#6)



L.H. R.H.
Lie/Face Gauge Angle Assembly (#7)



L.H. R.H.
Lie Angle Gauges (#8)



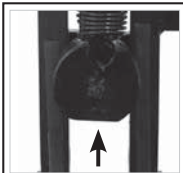
Back Clamp Screw (#9)



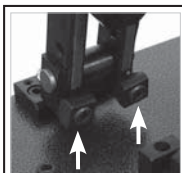
T-Wrench (#10)



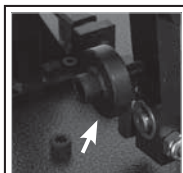
Vertical Plate (#11)



Top Clamp (#2)



Iron Sole Clamps (#12)



Toe Stop (#13)



Back Iron Clamp (#14)

OPERATING INSTRUCTIONS - IRONS



Illustration 1 –



Illustration 2 –



Illustration 3 –



Illustration 4 –

Club Head Registration & Clamping

STEP 1

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

STEP 2

Insert club head into back of **Face Fixture** (#3), setting the club sole on the two **Iron Sole Clamps** (#12) and the toe of the club touching the **Toe Stop** (#13). Adjust club head so the score lines are parallel to the leading edge of the **Round Pivot Bracket** (#4) that is in between the **Face Fixture** (#3) by adjusting the **Toe Stop** (#13) inward or outward. Then tighten the **Top Worm Screw** (#1). See Illustrations 1 thru 3.

STEP 3

WHEN NECESSARY, place the **Back Iron Clamp** (#14) in the center hole on the **Back Clamp Screw** (#9) slidable clamp fixture. Preset desired loft of iron, then register club head & lightly tighten the **Top Worm Screw** (#1). Tighten **Back Clamp Screw** (#9) using **T-Wrench** (#10) until **Back Iron Clamp** (#14) is snug against iron head. Make sure club head is flush against the back of the **Face Fixture** (#3) then fully tighten the **Top Worm Screw** (#1). See Illustration 4.

NOTE: Use the **Back Iron Clamp** (#14) 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 (#14) on every iron. It will slow down your bending time and is not necessary to use on every club.

OPERATING INSTRUCTIONS - IRONS



Illustration 5 –

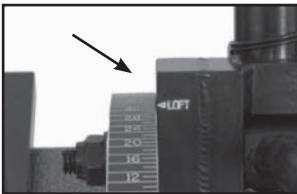


Illustration 6 –

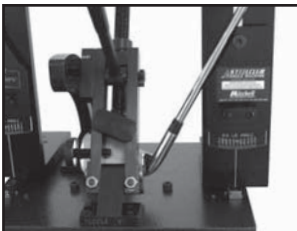


Illustration 7 –

Measuring Loft/Lie Angles

STEP 1 Pull down **Locking Arm** (#5) and both the club and the **Face Fixture** (#3) will swing forward and backwards in the **Loft Gauge Swing Arm** (#6).

STEP 2 Pull club forward, then slide the **R.H. Lie/Face Angle Gauge Assembly** (#7) forward. Push club backwards until the shaft is flush against the **Vertical Plate** (#11). The **R.H. Lie/Face Angle Gauge Assembly** (#7) will slide back as you push the club shaft against it. Lock the **Face Fixture** (#3) against the **Loft Gauge Swing Arm** (#6) by pushing up the **Locking Arm** (#5). See Illustration 5.

STEP 3 Read loft directly off the front left hand side of **Face Fixture** (#3), where it is locked against the **Loft Gauge Swing Arm** (#6). Note the “LOFT” stamped into the **Face Fixture** (#3). See Illustration 6.

STEP 4 To measure lie angle slide the **R.H. Lie Angle Gauge** (#8) up against the shaft to read the lie angle. See Illustration 7.

OPERATING INSTRUCTIONS - IRONS



Illustration 8 -

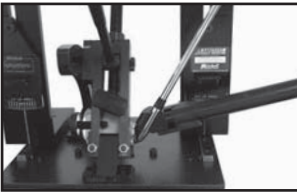


Illustration 9 -

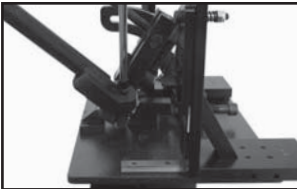


Illustration 10 -

Adjusting Loft/Lie Angles

STEP 1 Slide **R.H. Lie/Face Angle Gauge Assembly (#7)** to back of machine. Place 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 8.

STEP 2 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. Remeasure club and rebend if necessary to desired angles.

STEP 3 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 9.

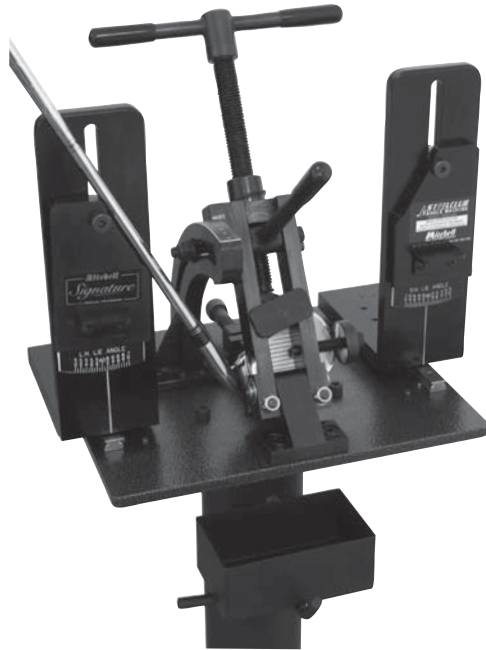
STEP 4 To adjust the loft angle preset the **Face Fixture (#3)** in the **Loft Gauge Swing Arm (#6)** at the desired loft. Bend back (up) to deloft the club and bend forward (down) to add loft to the club. When the shaft rests flush against the **Vertical Plate (#11)**, the club is then set at the desired loft. The shaft should move in a plane parallel to the side of the machine. See Illustration 10.

OPERATING INSTRUCTIONS - IRONS

Convert To Left Hand

STEP 1 Remove the **Toe Stop** (#13) from the left hand side of the **Face Fixture** (#3) and screw it into the hole on the right hand side.

STEP 2 To measure and bend, repeat the same steps per instructions on pages 3,4 and 5. Read the lie for left hand on the **L.H. Lie Angle Gauge** (#8). Read the loft on the **Loft Gauge Swing Arm** (#6).



GUIDE: IRONS LOFT/LIE/LENGTH SPECIFICATIONS

CLUB	OLD STANDARD			MODERN STANDARD			NEW MODERN STANDARD		
	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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