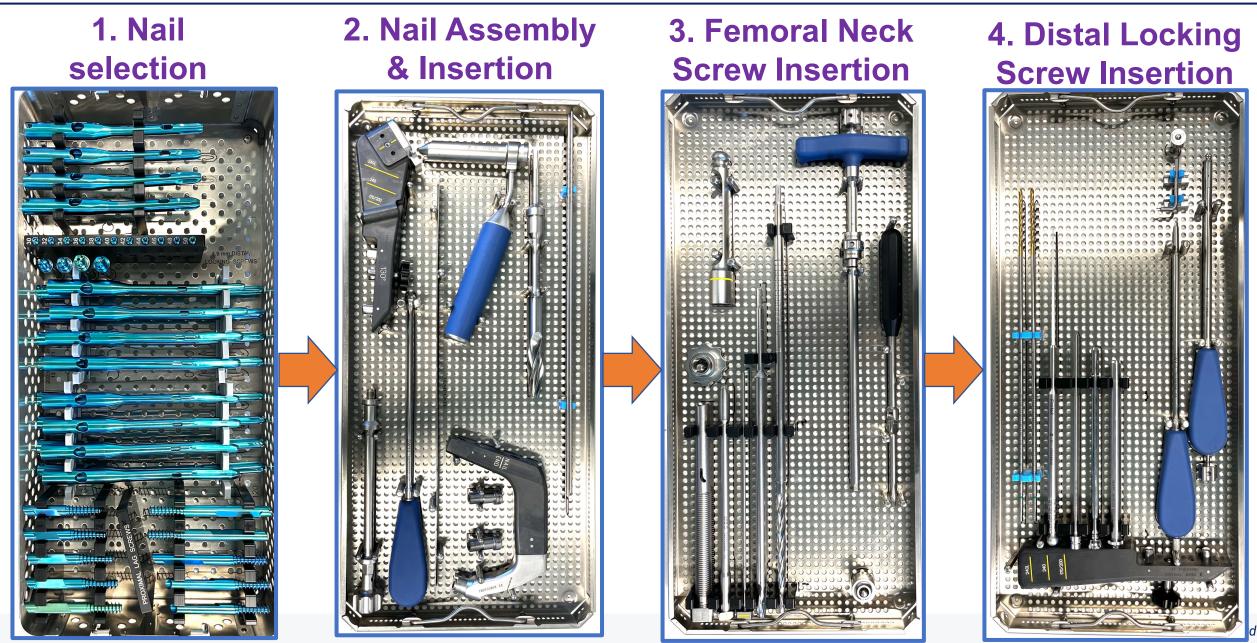
# EGUIN CONTRACTION CONTRACTION OF THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY OF THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY OF THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY OF THE OUTPONY OF THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY OF THE OUTPONY OF THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY OF THE OUTPONY. THE OUTPONY OF THE OUTPONY OF THE OUTPONY. THE OUTPONY

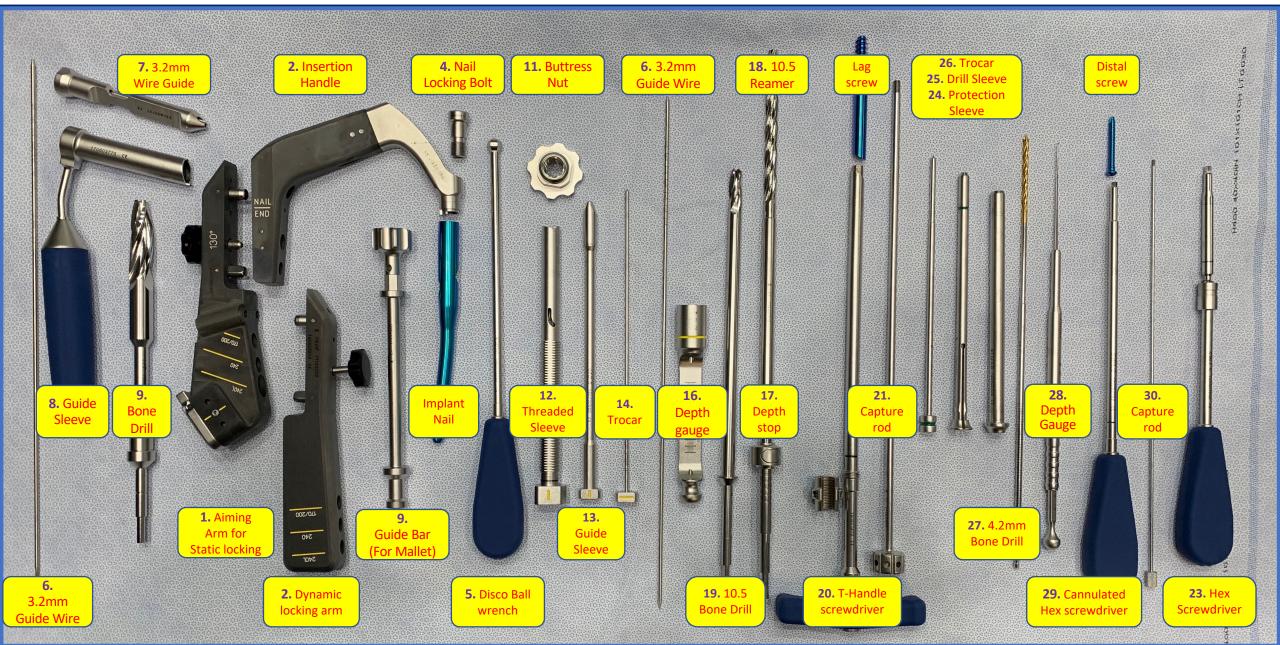
## **G-NAIL** *QUICK TIPS* – *overall kit layout*

# **EQUIN@X**



## **G-NAIL** QUICK TIPS

## **EQUIN** X





## **1. G-NAIL: NAIL SELECTION** – Implant tray (tray 5) required

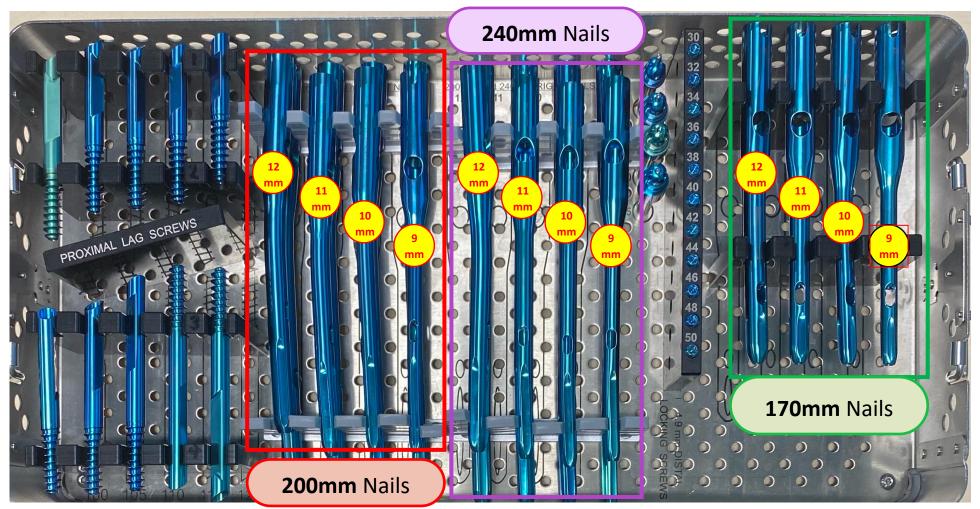
**Steps** 1. Surgeon will view X-ray to determine nail length and diameter.

#### **Diameter Guide\*:**

- Female: 9mm, 10mm
- Male: 11mm, 12mm

\*approximation only.

1.



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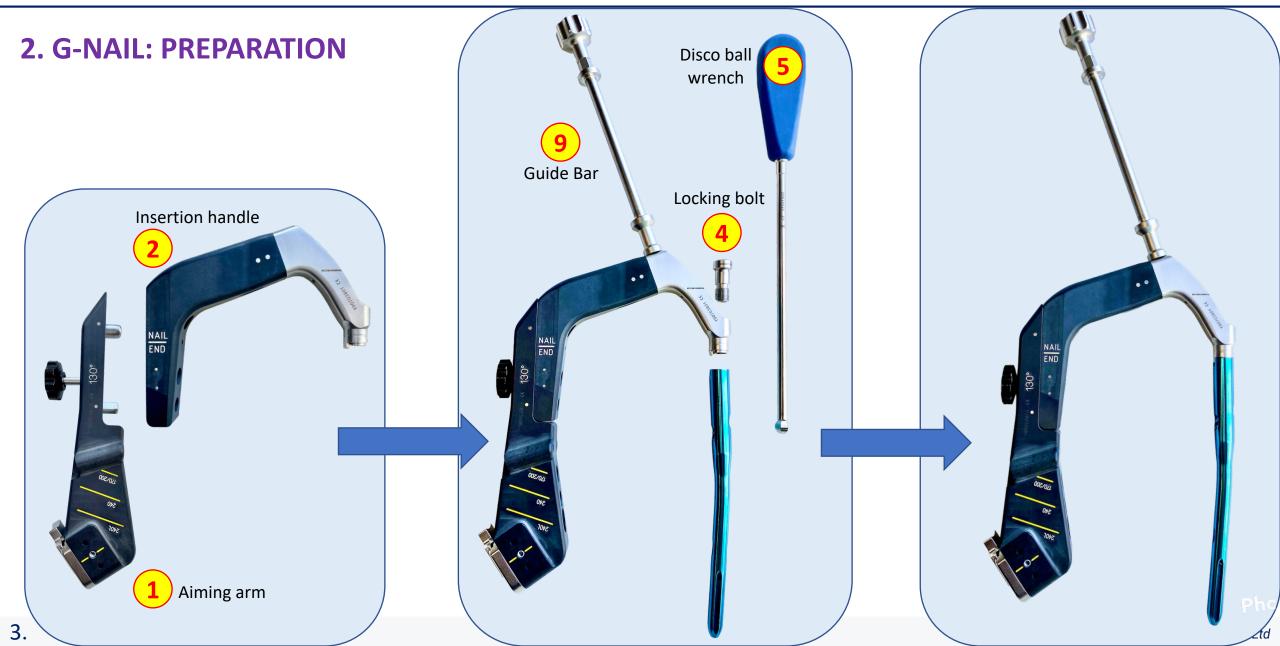


#### 2. G-NAIL: PREPARATION – Tray 1 & 5 required



- Steps: 1. Connect the Aiming Arm No. 1. and Insertion Handle No. 2. Guide Bar No. 9 may be attached to the top of the insertion handle at this time, if required especially for tough bone.
  - 2. Align the Aiming Arm tooth into the G-Nail notch.
  - 3. Use the Locking Bolt No. 4 to secure the top of the nail to the aiming arm, tightening with the Disco Ball Wrench No. 5

**EQUIN X** 

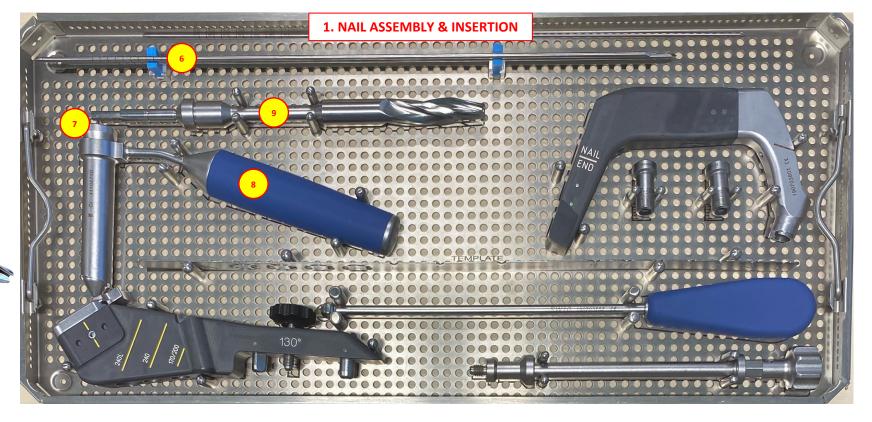




## 3. G-NAIL: DRILLING & NAIL INSERTION – Tray 1 required

#### Used: (6) 3.2mm Guide Wire

- (7) Wire Guide (optional)
- (8) Guide Sleeve
- (9) 17 Cannulated Bone Drill
- \* Chuck Attachment Required



- **Steps:** 1. The 3.2mm Guide Wire **No. 6** is inserted through the top of the greater trochanter (Wire Guide optional)
  - 2. 17mm Cannulated Bone Drill No. 9 is inserted over the guide wire, through the Drill Guide No. 8 and used to drill into the cancellous bone.



### 4. G-NAIL: INSERTION – Tray 1 required

Used: (9) Guide Bar

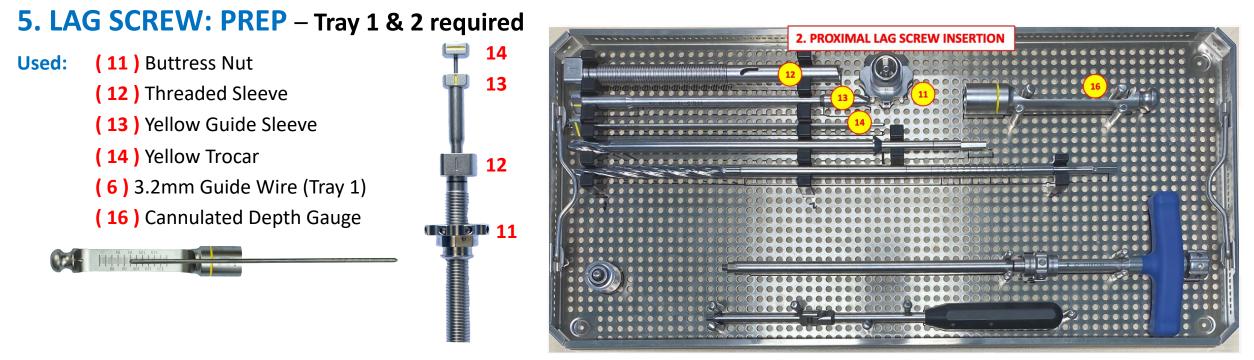
(37) Mallet (Hospitals should have a single wrapped mallet, if not, use mallet from Tray 4)



#### **Steps:** 1. Insert the G-Nail into the pre-drilled space

- 2. Guide Bar No. 9 and Mallet No. 37 may be needed to penetrate tough bone.
- 3. Guide bar No. 9 removed if used.

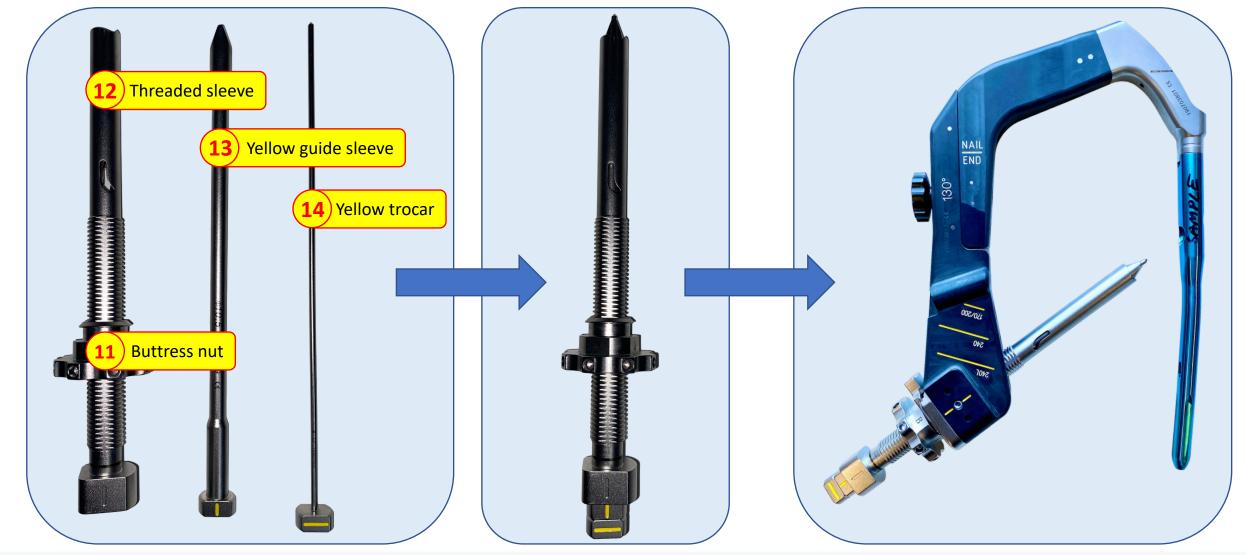




- Steps: 1. Screw the Buttress Nut No. 11 onto the Threaded Sleeve No. 12, progress approximately 2/3 of the way down (reverse thread)
  - Insert Yellow Trocar No. 14 into Yellow Guide Sleeve No. 13 and then the combined construct into the Threaded Sleeve No. 12. The construct is then placed through the femoral neck aiming guide of the Aiming Arm No. 1.
  - 3. The Mallet impacts the construct to puncture the lateral cortex of the proximal femur before the Yellow Trocar No. 14 is removed.
  - 4. The 3.2mm guide wire No. 6 is inserted 10mm from the articular surface and then the yellow Guide Sleeve No. 13 is removed and the Threaded Sleeve No. 12 progressed onto the lateral cortex wall.
  - 5. The Cannulated Depth Gauge No. 16 then determines the length of lag screw required with the yellow ringed end placed over the end of the threaded sleeve.



## 5. LAG SCREW: PREP – Tray 1 & 2 required





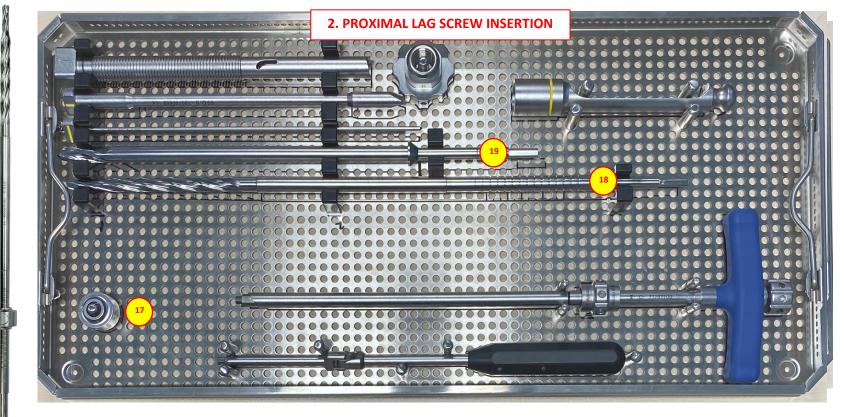
## 6. LAG SCREW: DRILLING – Tray 2 required



- (18) 10.5mm Reamer
- (19) 10.5mm Bone Drill

**Patient side**  $\rightarrow$  Desired depth should be readable

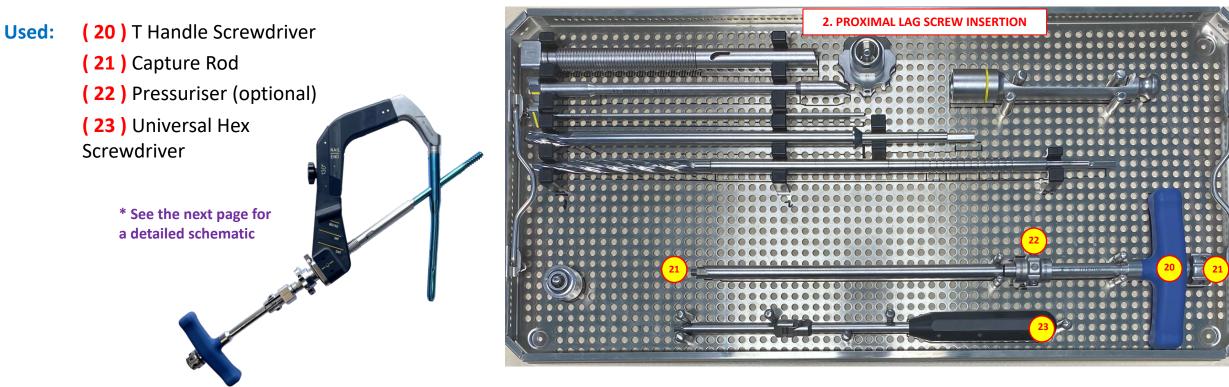




- **Steps:** 1. Depth Stop **No. 17** is calibrated according to the measured length (length shown on the **PATIENT SIDE 85mm in this example**).
  - 2. 10.5mm Bone Drill No. 19 is progressed over the guide wire to penetrate the cortical bone of the lateral cortex, if required, and then removed.
  - 3. 10.5mm Reamer No. 18 is progressed over guide wire to drill for Lag Screw insertion.

**EQUIN X** 

#### 7.1. LAG SCREW: INSERTION – Tray 2 required



- **Steps:** 1. Insert Capture Rod **No. 21** into T-handle **No. 20**.
  - 2. Screw Capture Rod into Lag Screw to create stable construct and hand to Surgeon.
  - 3. Pressuriser No. 22 (Optional when interfragmentary compression of the fracture fragments is required. The Pressuriser is screwed onto the T-Handle shaft and screwed clockwise).
  - 4. Ensure the green line on the T Handle Screwdriver is facing **cranially** and in line with the **green markings** when fully inserted.
  - 5. Universal Screwdriver No. 23 to engage the internal locking mechanism that locks the Lag Screw to the G-Nail. The Surgeon may perform one quarter turn back to generate micromotion of the lag screw.



## 7.2. LAG SCREW: INSERTION – Tray 2 required

Ensure the green line on the T Handle Screwdriver is facing cranially and in line with the green marking on the threaded sleeve when fully inserted.

> Green line faces cranially

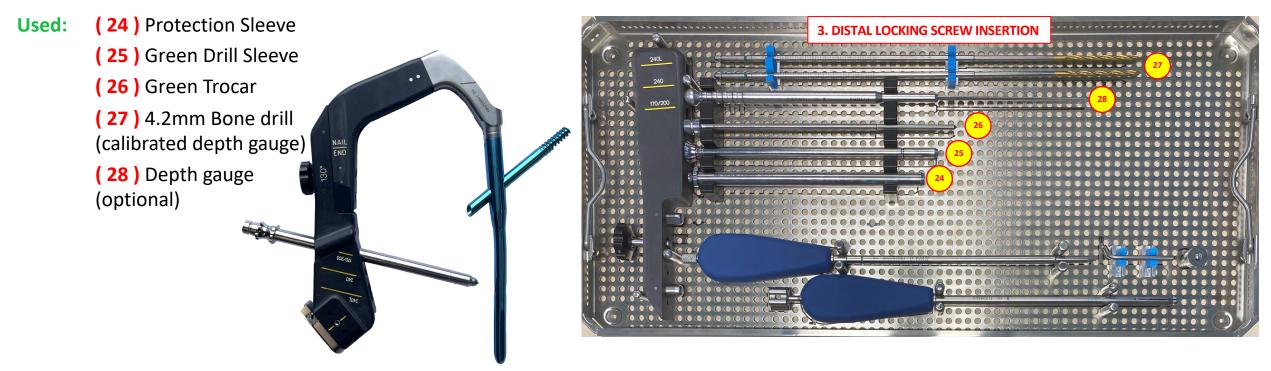
 The internal locking mechanism comes pre-screwed into the G-Nail.

Use the Universal Screwdriver to engage the internal locking mechanism and lock the Lag Screw to the G-Nail.

Excessive sterilization of the threaded sleeve and T-Handle Screwdriver may remove the green markings. Take care to ensure the green marking (or groove) **is always aligned with the marking/groove on the threaded sleeve and is facing cranially**.



## 8. DISTAL LOCKING SCREW: DRILLING – Tray 3 required



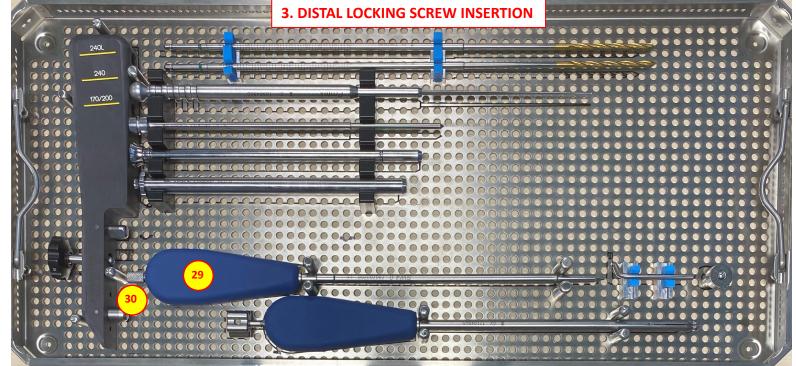
- **Steps:** 1. Insert Green Trocar No. 26 into Green Drill Sleeve No. 25 and then the combined construct into the Protection Sleeve No. 24 and thread through the aiming arm.
  - 2. The Green Trocar No. 26 is then impacted with the mallet to puncture the lateral cortex of the femur and is then removed with the Green Drill Sleeve No. 25.
  - 3. 4.2mm Bone Drill No. 27 measures the length of the Distal Locking Screw. The drill is QC, so no chuck is required.
  - 4. Depth Gauge **No. 28** (optional).



#### 9. DISTAL LOCKING SCREW: INSERTION – Tray 3 & 5 required

- Used: (29) 4.0mm Green Cannulated Hex Screwdriver
  - (30) Capture rod
  - (31) Distal locking screw (Tray 5)

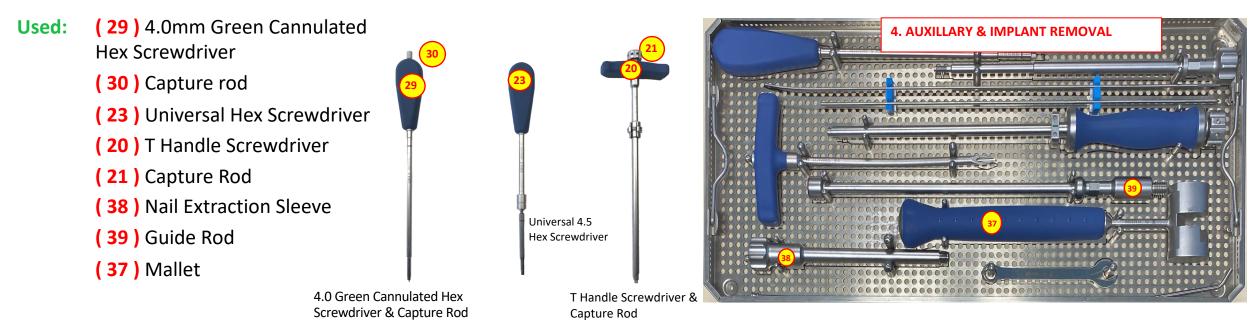




- Steps: 1. Capture Rod No. 30 is inserted into the 4.0mm Green Cannulated Hex Screwdriver No. 29.
  - 2. Attach Capture Rod **No. 30** firmly to the head of the Distal Locking Screw.
  - 3. Hand to the surgeon who will thread this through the Aiming Arm and secure.



#### **10. NAIL REMOVAL**– Auxillary & Implant Removal Tray required

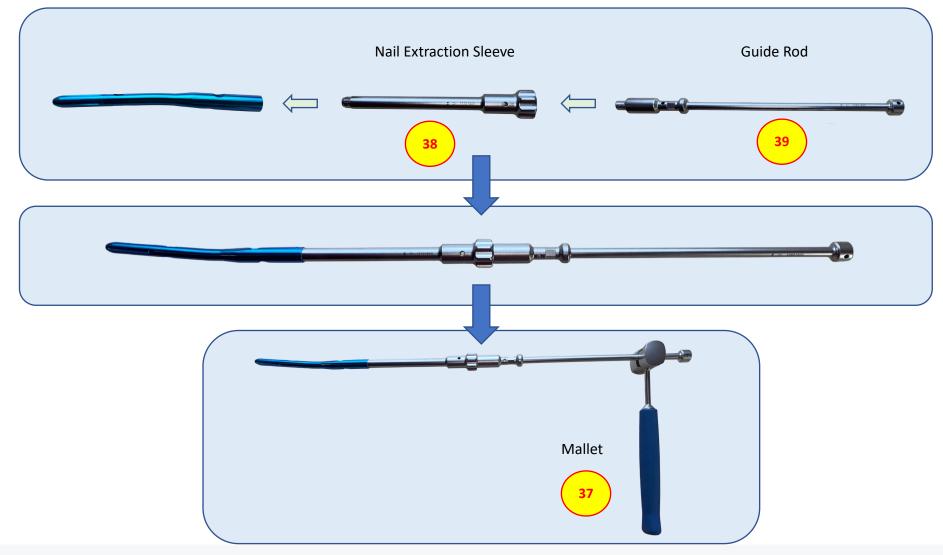


- Steps: 1. Distal Locking Screw Removal: Capture Rod No. 30 is inserted into the 4.0mm Green Cannulated Hex Screwdriver No. 29. and the locking screw is extracted.
  - 2. Lag Screw Removal: The Universal 4.5 Hex Screwdriver No. 23 is used to unscrew the set screw first. Capture Rod No.21 is inserted into the The T Handle Screwdriver No. 20 and the lag screw is extracted.
  - **3.** Nail Removal: The Nail Extraction Sleeve No. 38 is attached to the proximal end of the nail and a Guide Rod No. 39 is then attached to the Nail Extraction sleeve. A Mallet No. 37 is then used to extract the nail. (attachments shown in the next page)

Please note that No. 29, 30, 23, 20 & 21 are all left loose on the Auxillary Tray and do not have a proper laser engraved spot.



#### **10. NAIL REMOVAL**– Auxillary & Implant Removal Tray required



## **Explanation – ABCD** Markings on the Buttress Nut





The four letters, A, B, C and D serve the following function:

- Indicates the correct direction of turning
  - Turning from A to D, advances the trocar onto the proximal cortex (clockwise)
- Provides a measure of the amount of advancement
  - One full revolution (360<sup>°</sup>) = 2.0mm of compression
  - 90<sup>0</sup> turn eg. from A to B = 0.5mm of compression
  - 1800 turn eg. A to C = 1.0mm of compression.