



INTRAMEDULLARY NAIL REMOVAL GUIDE

TFNA-Trochanteric Femoral Nail

ETN-Expert Tibial Nail

MULTILOC

RAFN-Retrograde/antegrade Femoral Nail

RFN-Retrograde Femoral Nail

PFNA-Proximal Femoral Nail Anterotation

LFN-Lateral Femoral Nail

FRN-Femoral Recon Nail

TENS-Titanium Elastic Nail System

DePuy SYNTHES NAIL REMOVAL GUIDE

TFNA-TROCANTERIC FEMORAL NAIL ADVANCED



1. Remove end cap T40 screwdriver
2. Attach nail extractor 03.010.000



3. Disengage locking mechanism (set screw) 5mm flexible screwdriver
03.037.028



4. Remove Helical Blade/Screw with extractor 03.037.030

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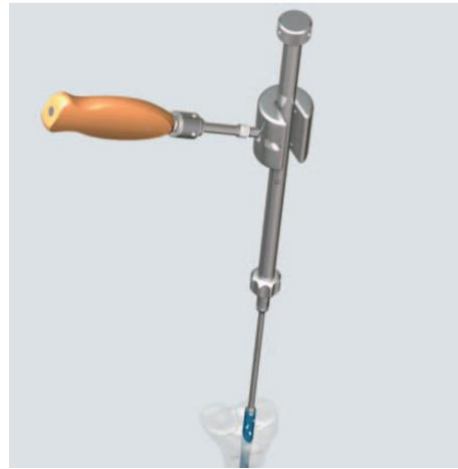
5. Remove distal locking screws T25 screwdriver
6. Remove nail

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ETN-EXPERT TIBIAL NAIL



1. Remove end cap (cannulated) T40 screwdriver or T25 for new ANS nails.
2. Attach nail extraction bolt 03.010.000
3. Remove locking screws T25 screwdriver
4. Remove nail



MULTILOC HUMERAL NAIL

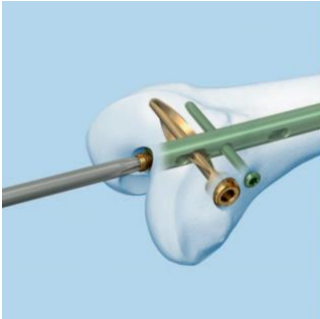
Use insertion instruments as multiloc screwdriver is unique to this set

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RFNA



1. Remove end cap T40 screwdriver (T25 for new ones RFN)



2. Attach nail extraction bolt 03.010.000
3. Remove blade (356.543)



4. Remove screws T25
5. Remove NailNB. If condylar nuts used need 03.045.033 get loan kit



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PFNA



1. Remove Blade 03.010.411 & 356.832



2. Remove end cap with 11mm socket wrench 356.715 & 356.832



3. Remove locking bolts 3.5 hex
4. Attach nail extraction bolt 03.010.000
5. Remove nail.

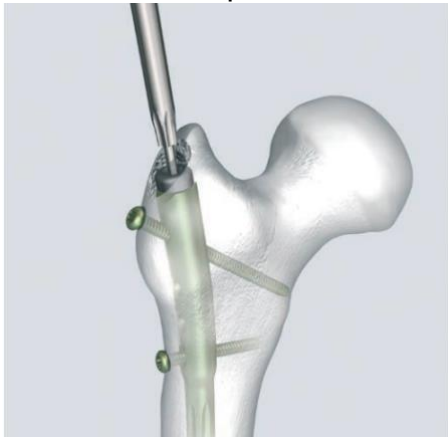
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LFN-FRN

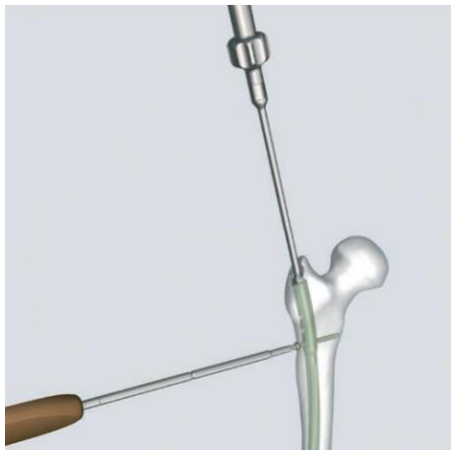
(Lateral Femoral Nail & Femoral Recon Nail)



1. Remove end cap T40



2. Attach nail extraction bolt 03.010.000



3. Remove screws T25
4. Remove nail.

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TENS (Titanium Elastic Nail System)

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Nail removal

Instruments

359.218	Hammer Guide
359.224	Locking Pliers, long
359.225	Locking Slide Hammer

For nail removal, the end cap must be removed first.

Once the nail end is exposed, attach the long locking pliers. The pliers require only a few millimeters of engagement with the nail for removal in most cases.

If capturing the nail is difficult, the lower jaw of the pliers can be driven under the nail end with light hammer blows. Use care to protect the physis from damage.

To remove the nail, use the flat on the hammer to strike the pliers on the "horn." Alternatively, the hammer guide can be threaded into the end of the pliers, and the hammer can be used to back out the nail. Once the nail is retracted a few millimeters, removal can usually be completed by hand. If the nail is still difficult to remove, the inserter and slide hammer can be used to complete removal.

