



## ■ Neo Repair Solutions ■

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# Overview

## Neo Repair solutions+

### Fixture Removal kit+

Overview of FR Kit

Technique Guide

Clinical Case

### Screw Removal kit +

Overview of FR Kit

Technique Guide

Clinical Case

# Fixture Removal

+Overview of FR Kit

+Technique Guide

+Clinical Case

## Key Points of Neo FR kit

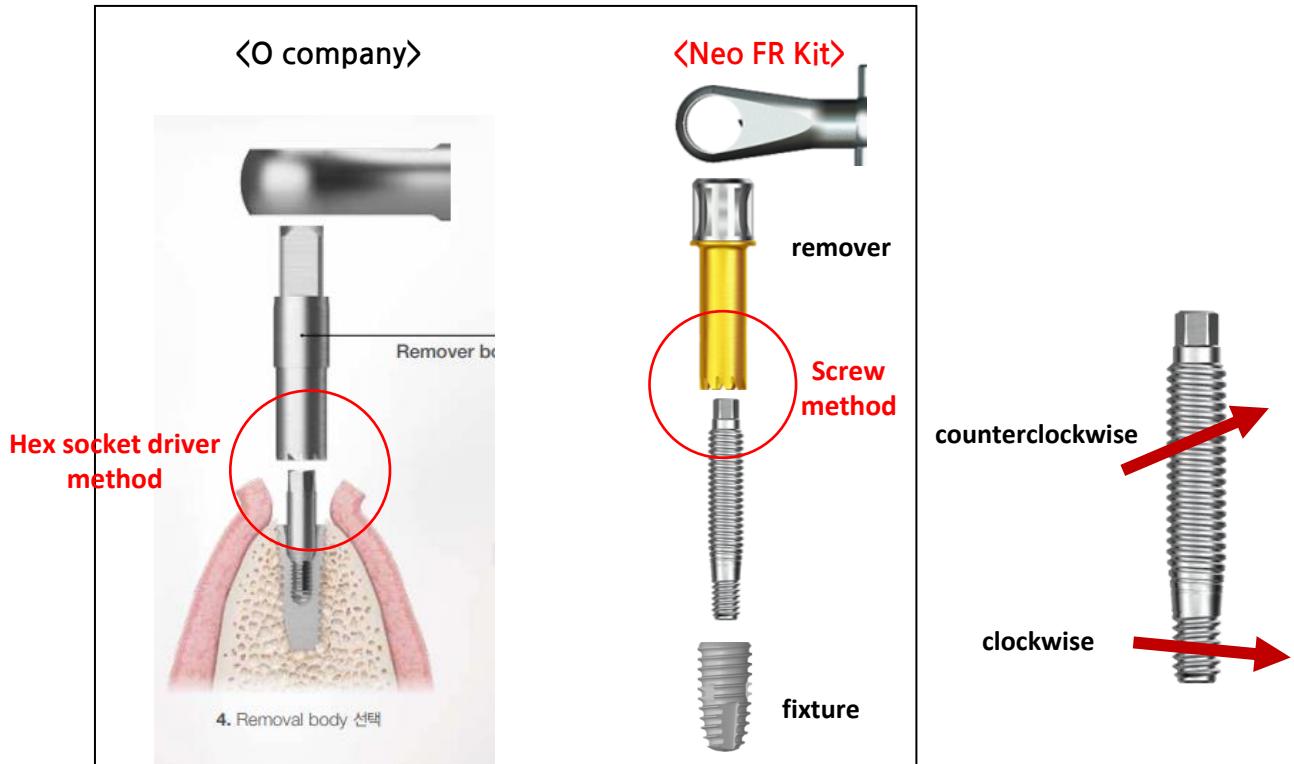


- ✓ No bone damage and dental trauma to patients.
- ✓ No need to use a trephine drill.
- ✓ Applicable to any type of implants with a screw hole.

# Fixture Removal

## Key Points of Neo FR kit

- +Overview of FR Kit
- +Technique Guide
- +Clinical Case



20세기 치과계의 판을 뒤집은 혁명은 바로 Per-Ingvar Brånemark 교수의 골유착성(Osseointegrated) 임플란트의 발명이었다. 그리고 21세기, 또 한번 그 판을 깨는 천재적인 발명이 나오는데, 그것이 허영구 원장의 Fixture Remover Kit다.

In the 20th century most innovative breakthrough in modern dentistry was the discovery of Osseointegration and the invention of the Osseointegrated implant by Professor Per-Ingvar BRANEMARK. The clinical utilization of the FRKIT Fixture Remover Kit by Dr. Young-Ku HEO is what I consider to be the best apparatus in implant dentistry in the 21st century.

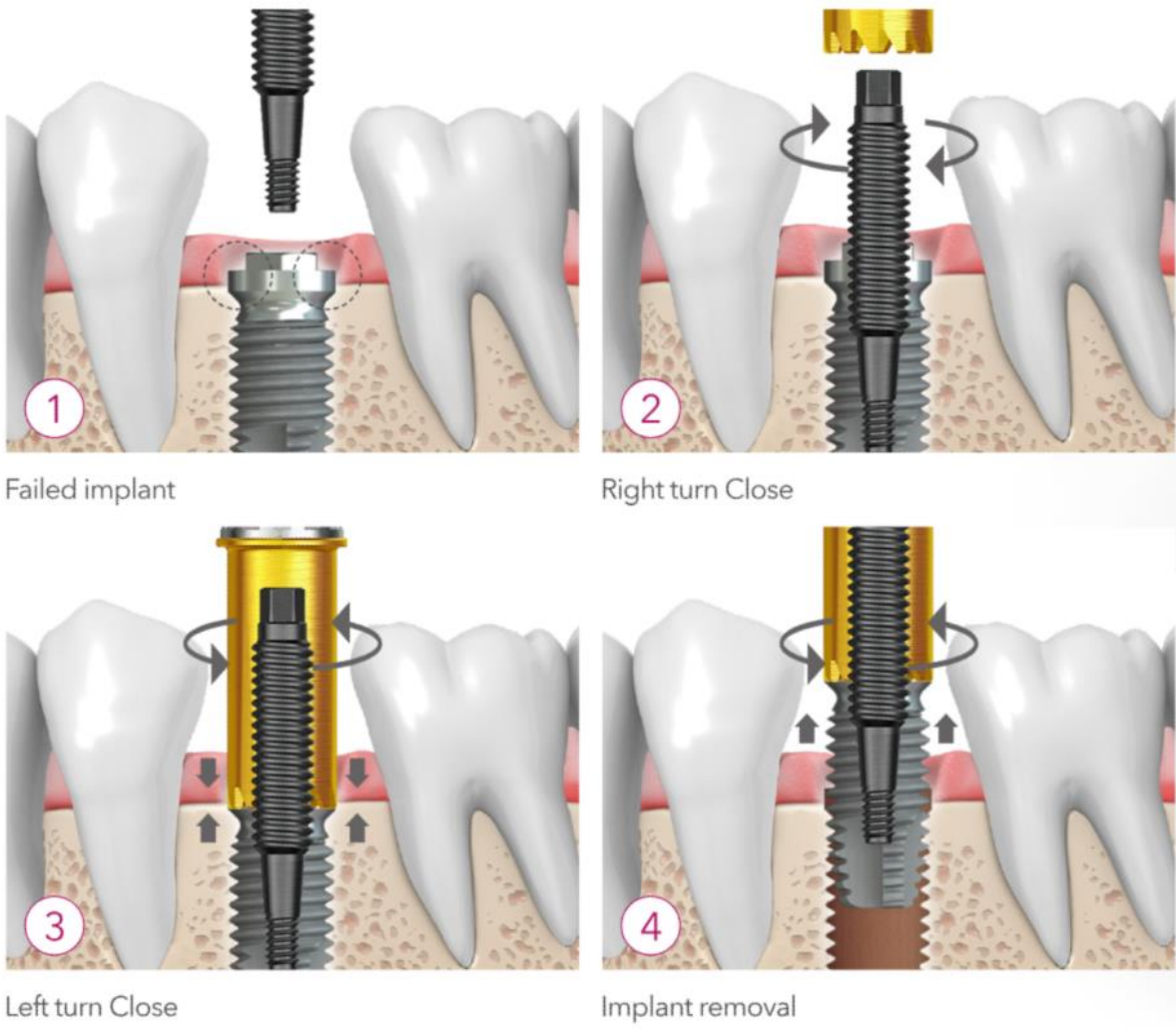
Yataro Komiyama DDS, PhD  
Brånemark Osseointegration Center, Tokyo

FR KIT by Dr. Young-Ku HEO is what I consider to be the best apparatus in implant dentistry in the 21<sup>st</sup> century

# Fixture Removal

## FR kit Technique Guide

- +Overview of FR Kit
- +Technique Guide
- +Clinical Case



### Fixture Remover Screw



Product Name	Screw size
FRS14	M1.4
FRS16	M1.6
FRS18	M1.8
FRS172	1-72UNF
FRS20	M2.0
FRS25	M2.5

\* "M" means a metric screw, and the number stands for the size of the external diameter of the screw



# Fixture Removal

+Overview of FR Kit

+Technique Guide

+Clinical Case

## FR kit Clinical Case



3mm bone loss was observed in #35.



Fixture Remover Screw was connected to the implant with 70Ncm. (less than 80Ncm is recommended)



Note: Fixture Remover Screw must be inserted up to the line to prevent screw fracture.



Fixture Remover was tightened counterclockwise onto the Fixture Remover Screw.



Using a torque wrench, the Fixture Remover was further tightened up to 300Ncm counter-torque with copious water.



Implant was unscrewed from the site without damaging the surrounding bone.



Favorable bony condition of threads was preserved.

# Screw Removal

+Overview of SR Kit

+Technique Guide

+Clinical Case

## Key Points of Neo SR kit

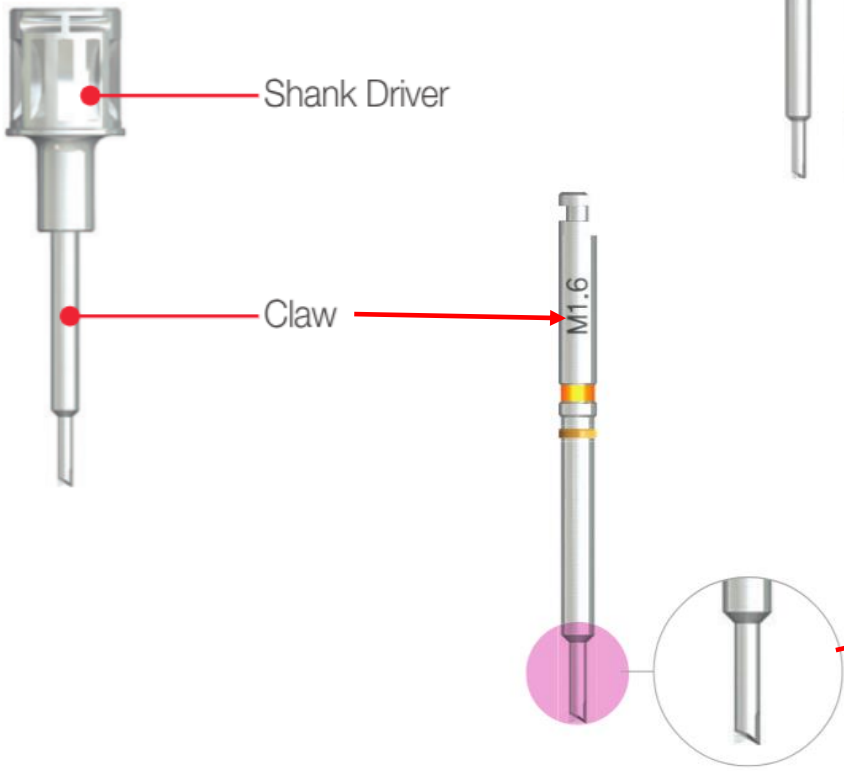



- ✓ Remove a fractured screw without damaging or repositioning the fixture.
- ✓ Quick and easy procedure completed in 3 minutes.
- ✓ Capable to remove fractured screws from different implant systems.

Screw Removal

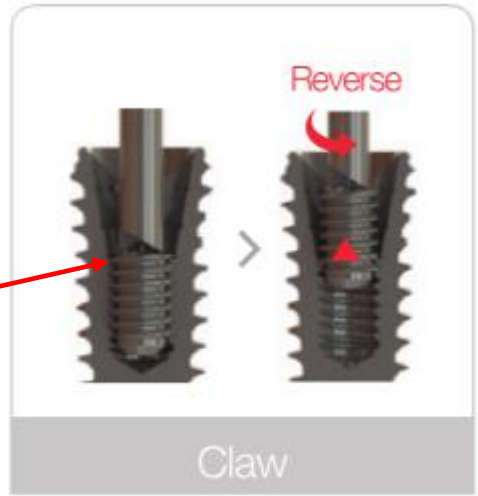
- +Overview of SR Kit
- +Technique Guide
- +Clinical Case

SR kit Technique Guide (Using Claw Drill method)





Product Name	Fractured Screw size
CD16	M1.6
CD18	M1.8
CD20	M2.0
CD25	M2.5






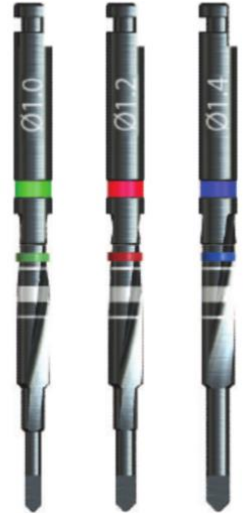
Screw Removal

SR kit Technique Guide (Using Reverse Drill & Screw remover method)

- +Overview of SR Kit
- +Technique Guide
- +Clinical Case

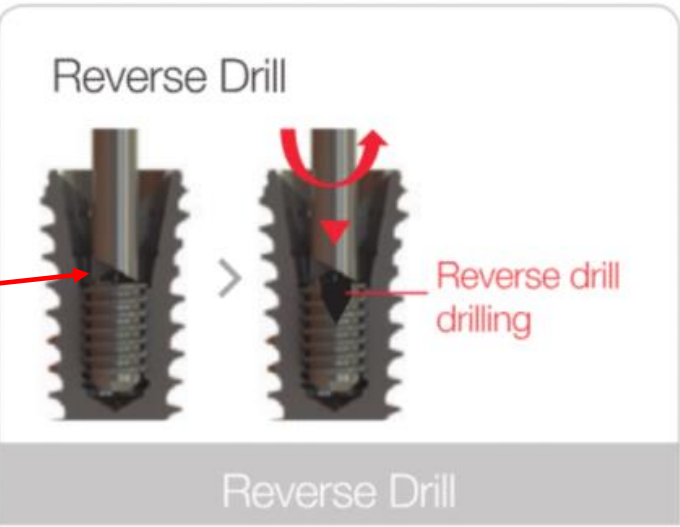


The Depth of the drill can be adjusted from 1mm to 3mm.



Product Name	Diameter(Ø)	Fractured Screw size
RCD10	Ø1.0	M1.8
RCD12	Ø1.2	M2.0
RCD14	Ø1.4	M2.5

\* For M1.6 Size Screw, use the claw for removal / 2,000 rpm



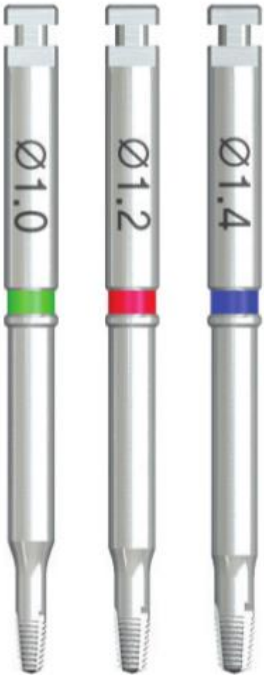
# Screw Removal

## SR kit Technique Guide (Using Reverse Drill & Screw remover method)

+Overview of SR Kit

+Technique Guide

+Clinical Case



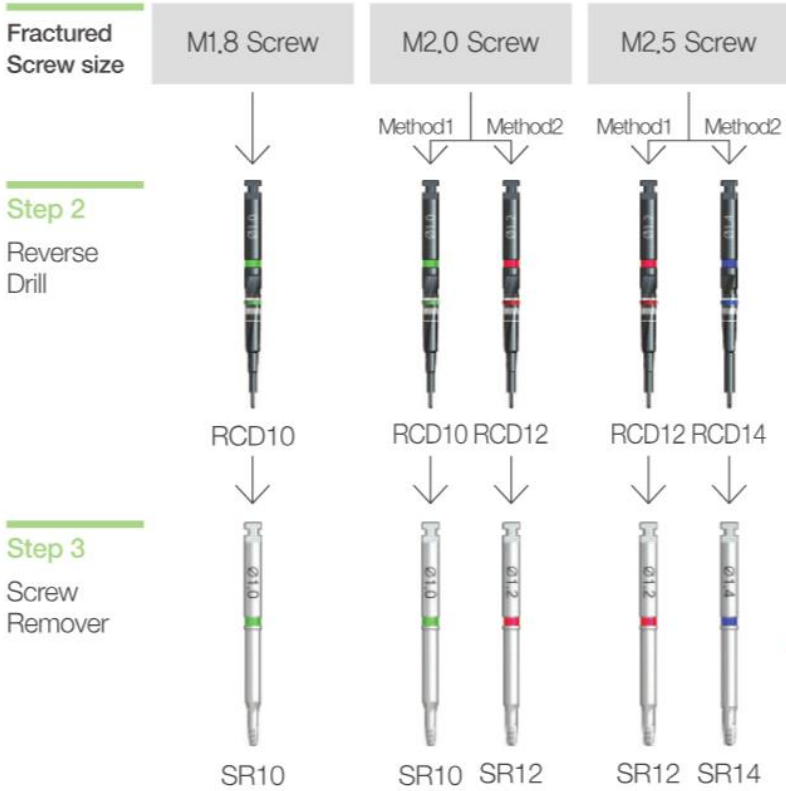
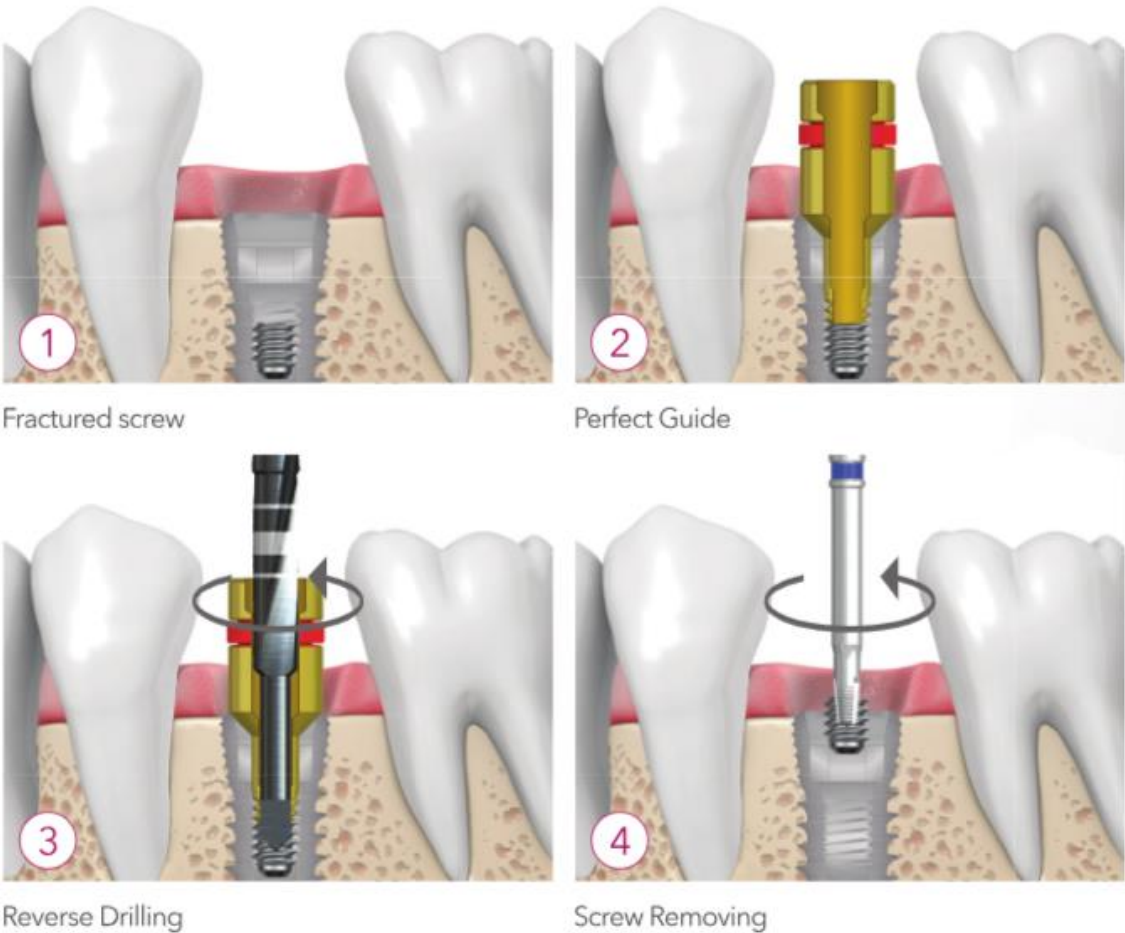
Product Name	Diameter(Ø)	Fractured Screw size
SR10	Ø1.0	M1.8
SR12	Ø1.2	M2.0
SR14	Ø1.4	M2.5

\* At or below 80 rpm

Screw Removal

SR kit Technique Guide (Using Reverse Drill & Screw remover method)

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## Screw Removal

+Overview of SR Kit

+Technique Guide

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### SR kit Clinical Case (Using Reverse Drill & Screw remover method)



Preoperative view of a fractured implant screw.



Ø1.2mm Perfect Guide was connected to the PG driver.



Perfect Guide was tightened in the screw hole with 15Ncm.



Ø1.0mm reverse drill was used at 2,000rpm with copious water.



Reverse drill was drilled in reverse direction.



Ø1.0mm screw remover was rotated counterclockwise.



Fractured screw was removed from the screw hole.



Postoperative view of screw removal.