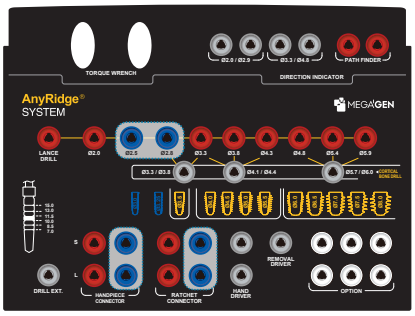
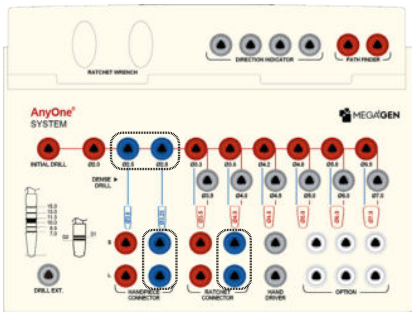
MiNi™ Kit

The instruments of MiNi Internal system are included in AnyRidge & AnyOne surgical kit.

※ Even the customers who do not use AnyRidge & AnyOne Internal System can experience MiNi System at any time by purchasing only six instruments separately.



AnyRidge Surgical Kit (KARIN3003)

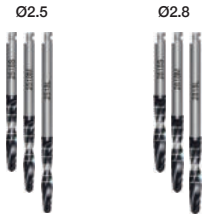


AnyOne Surgical Kit (KAOIN3003)

Shaping Drill

Diameter	Length(mm)	Ref.C
Ø2.5	33	SD2518S
	38	*SD2518M
	43	*SD2518L
Ø2.8	33	SD2818S
	38	*SD2818M
	43	*SD2818L

(*) Separate sales item.



Handpiece Connector

Type	Ref.C
Short	HCS17
Long	HCL17

Ratchet Connector

Type	Ref.C
Short	RCS17
Long	RCL17

Handpiece Connector

- Can use Overdenture Fixture

Type	Ref.C
Short	*OHCS

(*) Separate sales item.

Ratchet Connector

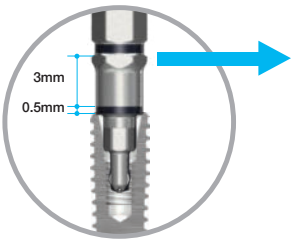
- Can use Overdenture Fixture

Type	Length (mm)	Ref.C
Short	12	*ORCS

(*) Separate sales item.

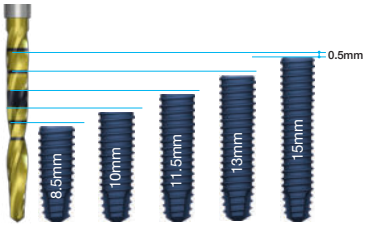
Product coordinator : jung hee Lee, rnd_implant3@imegagen.com

9.5 fixture length and drilling marking

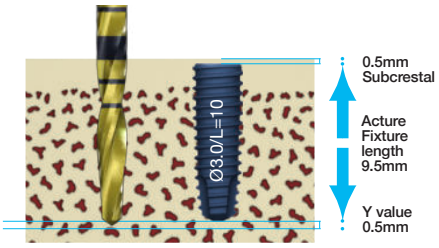


The platform line of the Handpiece Connector or the Ratchet Connector must be flush with the fixture platform.

⚠ When using the Ratchet Wrench, do not use an excessive torque as it can damage of internal structure of the fixtures. It is not recommended to exceed the maximum torque of 75N·cm.

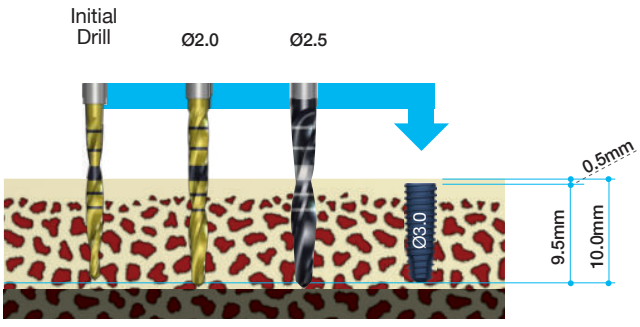


The actual lengths of MiNi™ internal fixtures are 0.5mm shorter than the depth markings of a Shaping Drill. Therefore, the fixture will be placed 0.5mm under the crest automatically.

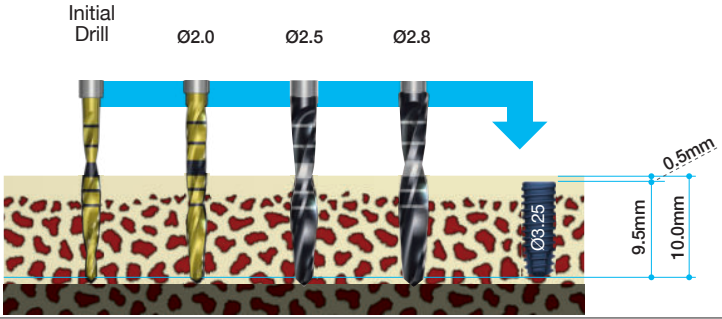


Actual drilling depth 10.5mm = 0.5mm subcrestal + 9.5mm actual fixture length + 0.5mm Y value
* Fixture Ø3.0 (Y value = 0.5mm), Ø3.25 (Y value = 0.6mm)

Surgical drilling sequence



Actual drilling depth 10.5mm= 0.5mm subcrestal + 9.5mm actual fixture length + 0.5mm Y value

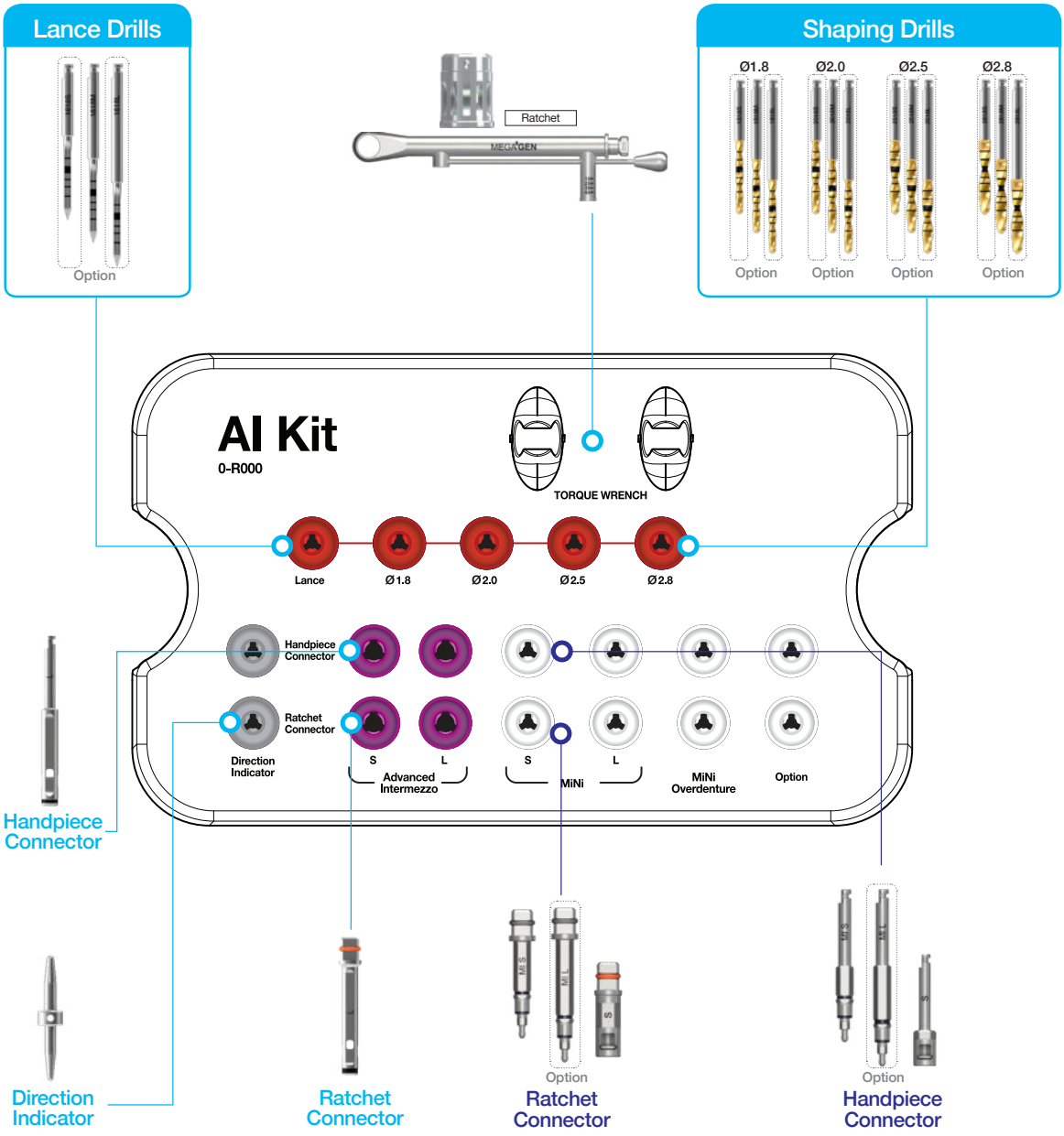


Actual drilling depth 10.6mm = 0.5mm subcrestal + 9.5mm actual fixture length + 0.6mm Y value

Advanced Intermezzo / MiNi Surgical Kit

With Options

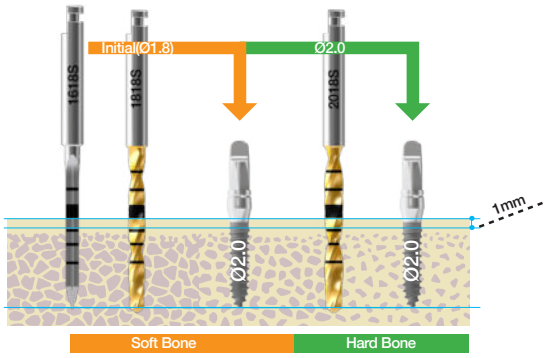
Without Options



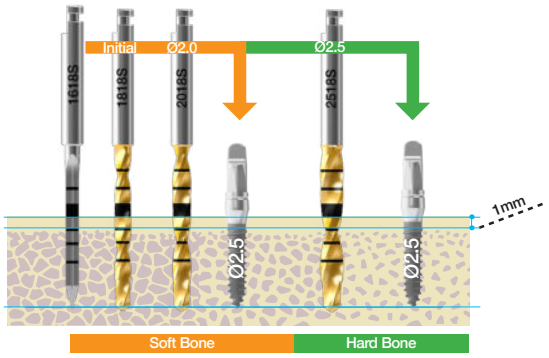
Drilling Protocols

- AI fixtures achieve optimum initial stability when used with a guided drilling sequence
- AI implants should be placed 1mm sub crestally
  0.5~1mm subcrestal placement has been proven to show a better crestal bone response

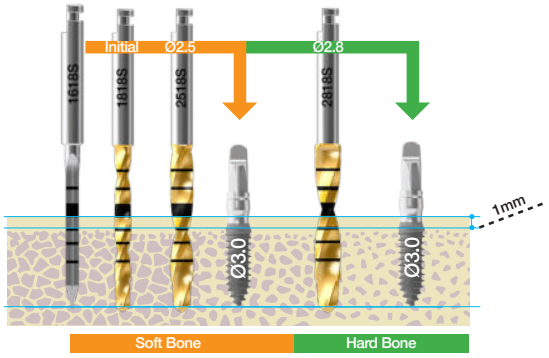
Ø2.0 Fixture
Drilling sequence



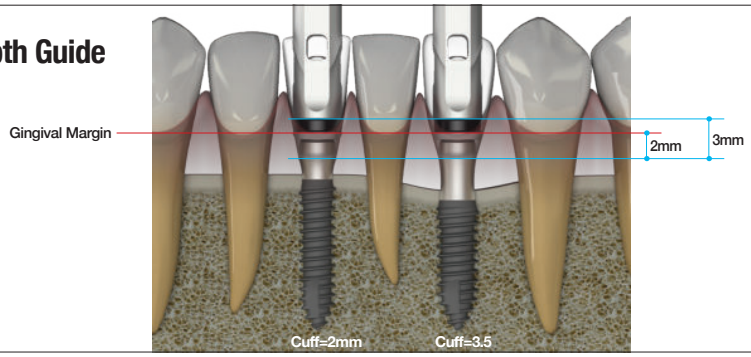
Ø2.5 Fixture
Drilling sequence



Ø3.0 Fixture
Drilling sequence



Fixture Depth Guide



Surgical Kit Components

Lance Drill

- Useful to make an indentation on cortical bone to confirm the exact drilling location.

Diameter	Length(mm)	Ref.C
Ø1.6	33	*LD1618S
	38	LD1618M
	43	*LD1618L

(*) Separate sales item.

Shaping Drill

- Each drill has depth marking lines from 7.0mm to 15.0mm.
- The dual marking system(grooves and laser markings) provides visual and radiographic depth verification during surgery.
- TiN coating on drills : Enhanced corrosion resistance and abrasion resistance.

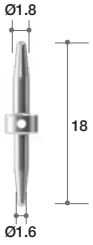
Diameter	Length(mm)	Ref.C
Ø1.8	33	*NSD1818S
	38	NSD1818M
	43	*NSD1818L
Ø2.0	33	*NSD2018S
	38	NSD2018M
	43	*NSD2018L
Ø2.5	33	*NSD2518S
	38	NSD2518M
	43	*NSD2518L
Ø2.8	33	*NSD2818S
	38	NSD2818M
	43	*NSD2818L

(*) Separate sales item.

Direction Indicator

- Confirms drilling direction and location during drilling.
- Checks drilling position

Diameter	Ref.C
Ø1.6 / Ø1.8	MDI1618



Handpiece Connector

- Use with Handpiece to remove fixture from ampule and place fixture
- Taper Connection allows for easy and secure pick-up and positioning of fixture
- Especially useful for flapless surgery

Type	Length(mm)	Ref.C
Short	30	AIHCS
Long	35	AIHCL

Ratchet Connector

- Use for inserting or removing fixture with Ratchet Wrench.
- Check to make sure Ratchet Connector is completely seated in Ratchet Wrench before using
- Excessive force can cause damage to Post hex of fixture.
- Especially useful for flapless surgery.

Type	Length(mm)	Ref.C
Short	23	AIRCS
Long	30	AIRCL

Handpiece Connector

- Can use MiNi Fixture

MiNi

Type	Ref.C
Short	*HCS17
Long	*HCL17

(*) Separate sales item.

Ratchet Connector

- Can use MiNi Fixture.

MiNi

Type	Ref.C
Short	*RCS17
Long	*RCL17

(*) Separate sales item.

Handpiece Connector

- Can use MiNi Overdenture Fixture.

MiNi

Type	Ref.C
Short	*OHCS

(*) Separate sales item.

Ratchet Connector

- Can use MiNi Overdenture Fixture.

MiNi

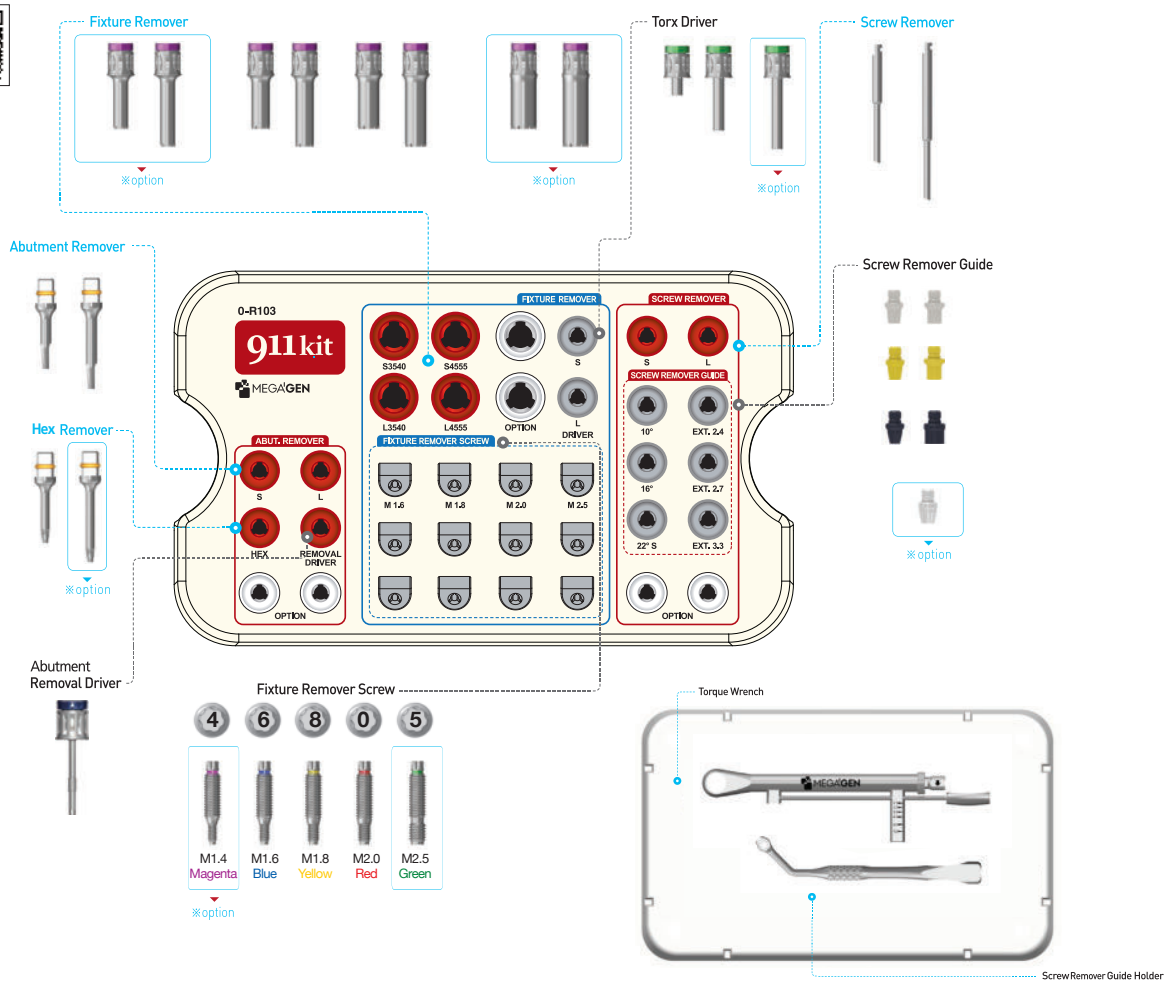
Type	Length (mm)	Ref.C
Short	12	*ORCS

(*) Separate sales item.

911kit

The total solution kit to remove broken pieces easily when fixture, abutment or screw are fractured.

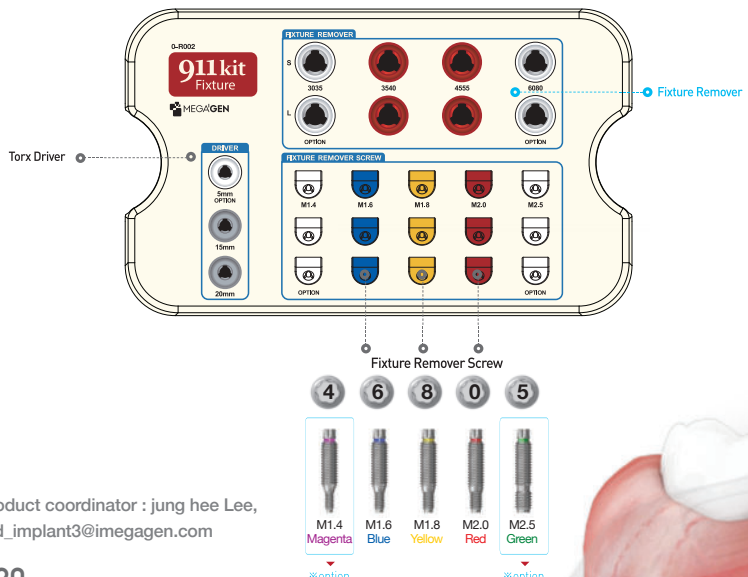
Ref.C
KPSCS3000

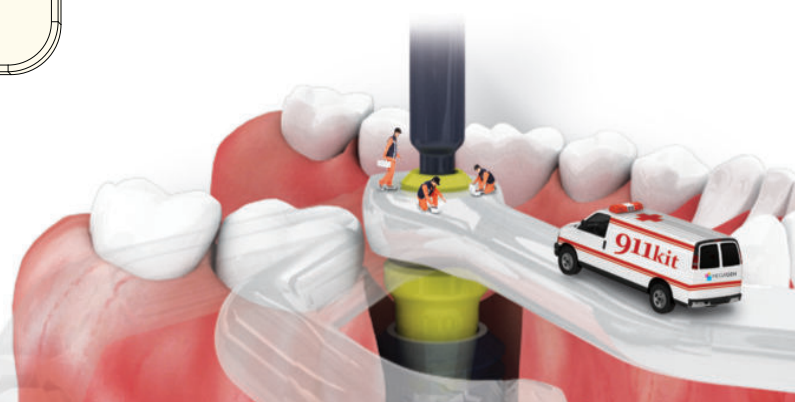


911Fixture Removal kit

This is a simplified version of 911 kit, only to use for fixture removal.

Ref.C
KPSFS3000





Product coordinator : jung hee Lee,
rnd_implant3@imegagen.com

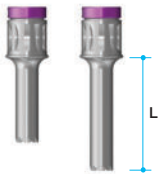
911kit Components (Continued)

Fixture Remover

- To remove the fixture. When selecting a Fixture Remover, consider the outer diameter of a Fixture. In case of AnyRidge Fixture that the thread is formed under platform, select a Fixture Remover according to platform size

Applied Fixture Diameter	Length(mm)	Ref.C
Ø3.0~Ø3.6	15	*FSS3035
	20	*FSL3035
Ø3.7~Ø4.6	15	FSS3540
	20	FSL3540
Ø4.7~Ø5.6	15	FSS4555
	20	FSL4555
Ø5.7~Ø7.0	15	*FSS6080
	20	*FSL6080

(*) Separate sales item.



Fixture Remover Screw

- To connect fixture and Fixture Remover.
- Recommended tightening torque
  - FSS14, FSS16 : 40~50 Ncm
  - FSS18, FSS20, FSS25 : 70~80 Ncm.

Applied Fixture Thread	Color	Torque	Ref.C
M1.4 (MiNi)	Magenta	70 Ncm	*FSS14
M1.6 (EZ Plus, ExFeel Ø3.3,Octa 1)	Blue		FSS16
M1.8 (AnyRidge)	Yellow	110 Ncm	FSS18
M2.0 (AnyOne, MegaFix, EZ Plus, ExFeel)	Red		FSS20
M2.5 (Rescue)	Green		*FSS25

(*) Separate sales item.

Torx Driver

- To connect fixture removal screw to a fixture.

Length (mm)	Ref.C
5	TD05
15	TD15
20	*TD20

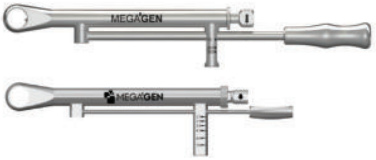
(*) Separate sales item.

Torque Wrench

- TW500 : To check torque force when removing fixture.
- TW70 : To check torque force when tightening Fixture Remover Screw.

Type	Ref.C
300Ncm	TW500
70Ncm	*TW70

(*) Separate sales item.



911kit Components

Abutment Remover

- To remove fractured abutment.
- Use screw size M1.8 & M2.0.

Length (mm)	Ref.C
22	ASS
27	ASL

Screw Remover

- To remove fractured screw.
- Screw size of system
  M1.4=MiNi
  M1.6=EZ Plus, Exfeel Ø3.3
  M1.8=AnyRidge
  M2.0=AnyOne

Length (mm)	Type	Ref.C
30	M1.4 & M1.6	*SS1416S
45		*SS1416L
30	M1.8 & M2.0	SSS
45		SSL

(*) Separate sales item.

Screw Remover Guide

- To secure the Screw Remover from moving side to side when removing the screw.

Applied Fixture Diameter	Type	Ref.C
Internal	10°(AnyRidge)	SSIG10
	16°(AnyOne OneStage)	SSIG16
	22°(MiNi Internal)	*SSIG22S
	22°(AnyOne Internal)	SSIG22
	22°(Rescue Internal)	*SSIG22W
External	HEX 2.4 (AnyOne External Ø3.5)	SSEG24
	Hex 2.7 (AnyOne External)	SSEG27
	Hex 3.3 (Rescue External)	SSEG33

(*) Separate sales item.

Screw Remover Guide Holder

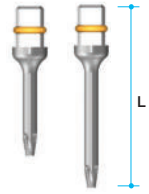
- Tool to support the Screw Remover Guide.

Ref.C
SSGH

Hex Remover

- To remove hex-damaged Abutment Screw, Cover Screw or Healing Abutment.

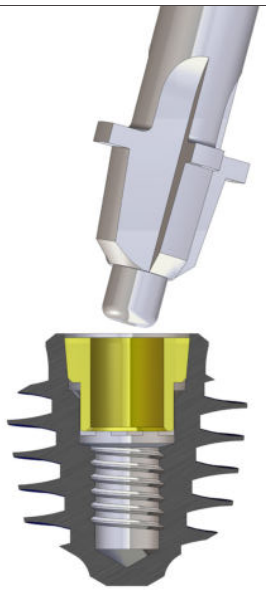
Length (mm)	Ref.C
22	HSS
27	HSL



Broken Abutment Remover Set for AnyRidge

: Remover set to remove fractured AnyRidge Abutment

Ref.C
ARARS



Components

High Speed Bur + Abutment Remover Driver + Abutment Remover Housing

How to

grind remaining fractured abutment using a high-speed bur, and remove the residue using a housing-connected driver

Recommendations

1. If an abutment hex is not separated even though the abutment is removed up to the stopper, remove the abutment hex with pincette.
2. Check the blade before usage. It is highly recommended to use a new bur if it is worn out.
3. Wash and sterilize immediately after every usage

※Cautions

1. Perpendicularly insert a high-speed bur into a fixture
2. Do not overload when using a high-speed bur. Adequate irrigation is highly recommend when using.
3. The given kit case is for storage only. Do not sterilize.
4. Anti-clockwise when in use.

Grinding and Removal Bur with a Implant motor

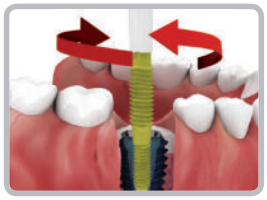
Ref.C
ARARHB18

▸▸ How to use 911kit

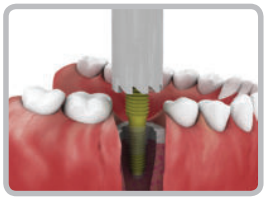
Fixture Remover

- ➲ Fixture Remover Screw: Single use only
- ➲ Do not use in case of a gap in Fixture Remover

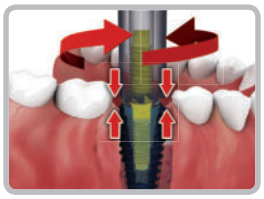
Remove the prosthesis of the fixture to be removed, and the surrounding bone.



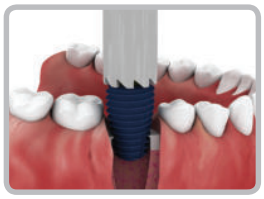
Select a Fixture Capture Screw of the same size as the fixture internal screw. Use the Torx Driver to turn the screw clockwise (40Ncm~70Ncm) to place in the fixture. (Use of torque less than 40Ncm for M1.6, and 60Ncm for other products may lead to loosening)



Select a Fixture Remover that fits the fixture diameter. Turn the fixed Fixture Remover Screw counterclockwise until it touches the fixture. (For a torque of greater than 300Ncm, it is recommended to use a Trephine bur)



Fixture and Fixture Remover are tightly connected as rising force and descending force are combined. (Suction is needed; debris may happen on removal of a fixture)

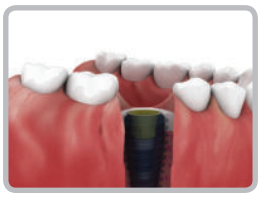


Using Torque Wrench, turn counterclockwise and pull out fixture and Fixture Remover. (No more than maximum torque per fixture)

Removed fixture can be pulled out, turning Fixture Remover and fixture clockwise, holding onto vice plier.

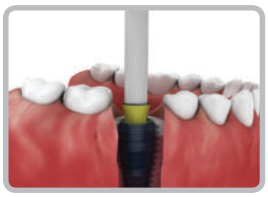
Abutment Remover

- ➲ Can use for abutments that use M1.8 & M2.0 screws.
- ➲ Cannot use for abutment that use M1.6 and M2.5



Insert the Abutment Remover in the fractured abutment hole.

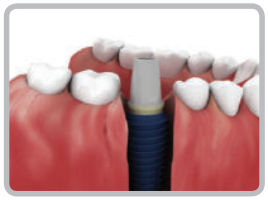
Use the Ratchet Wrench to turn clockwise in order to join the abutment and the Abutment Remover as one body. (Ratchet Wrench is included in surgical kit)



Move the Abutment Remover sideways while pulling up to remove it. (Use of excessive force may traumatize the fixture or the bone)

Secure the separated abutment in a vice or vice pliers. Use the Ratchet Wrench to turn counterclockwise to separate the abutment with the Abutment Remover.

Screw Remover



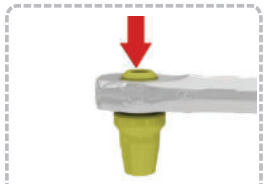
Remove the broken Abutment Screw and the abutment.

Select the correct Screw Remover Guide that fits the fixture connection to join.

Secure the Screw Remover Guide and insert the Screw Holder in the Screw Remover Guide hole.

Push the Screw Remover downwards while rotating counter clockwise to separate it from the fixture internal screw.
(rpm:30~50, Torque : 30Ncm)

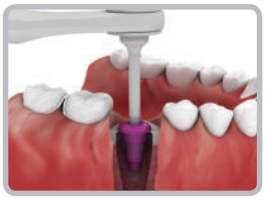
Remove the pieces of broken screw from the fixture internal screw using forceps.



When separating the holder from the guide, push in the direction of the arrow to separate.

Hex Remover

In cases that Abutment Screw, Cover Screw or Healing Abutment's hex is damaged.



Use the Ratchet Wrench to turn counterclockwise to join the abutment with the Abutment Remover as one body. (Use a torque of less than 40Ncm., Ratchet Wrench is included in surgical kit.)

Place the removed abutment in the vice. Use the Ratchet Wrench to turn clockwise to separate the abutment with the Hex Remover.