

# **RAPID** **LUXATION** PLATING SYSTEM



Special Thanks to Emile Pickee

**R** **RITA**  
**LEIBINGER**  
MEDICAL



ORTHO4VETS

## Rapid Luxation Surgery Instructions

### RAPID LUXATION Surgery Instructions Placement of the patient

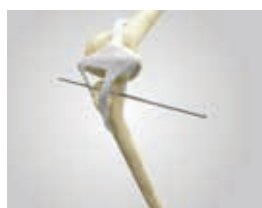
The dog is placed in a dorsal recumbency with the affected limb suspended from a stand. Make sure that the dog's paws are not fixed too tightly, since the affected limb will be put against the table later in the surgery. Rapid Luxation is performed through a medial skin incision.

### Using the saw guide

The saw guide is an L-shaped device developed to facilitate the correct position of the osteotomy. It has been developed to ensure a sufficiently large cranial fragment is created for screw placement. The vertical arm of the guide has 2.5mm holes placed at strategic points, over a 1mm wide slot. The numbers beside the holes result from the TTA Rapid technique, where the saw guides were originally developed for but will also be appropriate for the Rapid Luxation technique in order to prevent making a too distal osteotomy. The horizontal arm of the guide is a scale in millimeters. This will prevent making a too caudal osteotomy.

### Making the osteotomy

1.) A 2.5mm pin is placed through the joint capsule at the intersection of the femoral condyle and the tibial plateau. On the lateral side, the pin should start slightly in front of the level of "Gerdy's Tubercle". This pin is used as the proximal fixation of the saw guide.



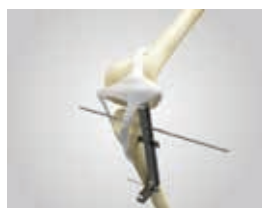
2.) The guide is dropped over the pin using one of the numbered holes in the vertical arm. The number should be selected accordingly that the osteotomy will end below the Tibia Tuberosity.



3.) A peg is placed into one of the holes in the horizontal arm of the saw guide, selecting the cortical thickness in millimeters measured during pre-operative planning.



4.) Press the saw guide against the medial aspect of the tibia with protruding peg forced up against the cranial side of the tibia. Hold it in that position. Correct use of the saw guide will place the osteotomy just caudal to the cranial cortex of the tibia. (As a guide: In a large dog the cortex is approximately 5mm thick and in a small dog approximately 3mm.)



**DO NOT PRESS THE HORIZONTAL ARM AGAINST THE BONE, AS THIS WILL CAUSE AN OBLIQUE OSTEOTOMY!**

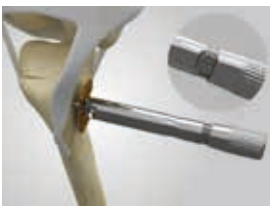
5.) Use an oscillating saw to create the osteotomy. Optionally, a blade can be used to open the fascia/periosteum prior to the osteotomy.

### Placing the implants

(following the medial Patella Luxation (PL) is described. With lateral PL proceed the placing of the implants in lateral/medial opposite site)



1.) The Rapid Luxation Plate is placed on the tibia. The osteotomy should be in the middle of the Rapid Luxation Plate. The Rapid Luxation Plate is then screwed on the caudal side of the tibia (for MPL, (place screws on the cranial side for lateral patella luxation).



2.) The Tibia Tappet is inserted in the cranial screw holes (top and centre screw hole for the 3-hole plates) of the Rapid Luxation Plate.



3.) Then the tappet can be rotated, it fixates itself in the screw holes of the Rapid Luxation Plate and transposes the tibia crest to the lateral side. The scale (in mm) on the top of the instruments shows exactly how far tibia crest is transposed.



4.) During transposition using the tappet the stifle can be flexed and extended to check if there is perfect alignment of the patella and if the patella stays in place. If the alignment is not optimal, the transposition can be further increased.



5.) Finally the spacer will be placed between the plate and the bone. The tappet can then be removed. The cranial screws can be placed.



Close the fascia where possible. Close the wound in a routine fashion.



**luxation.leibinger.vet**

## RAPID LUXATION Set

### RAPID LUXATION Set

#### Contents:

Sterilization Tray with Lid  
 3 of each 2.0mm Screw (6-20mm)  
 (24 St. total)  
 3 of each 2.4mm Screw (6-40mm)  
 (54 St. total)  
 1 piece of each Rapid Luxation Plate  
 (3 pieces total)  
 1 piece of each Patella Spacers (18 pieces total)  
 large Sawguide with Pin & K-Wire  
 Tiny Sawguide with Pin & K-Wire  
 Tibia Tappet „Petite“  
 Tibia Tappet „Standard“  
 Screwdriver Handle  
 Screw Driver Shaft 2.4 + 2.0 with Holding sleeve  
 Plate Holding Forceps  
 Depth Gauge  
 Drill Guide  
 Drills 1.5 + 1.8



**132-8000-00**

Tray without contents.

**132-8000-10**





## Rapid Luxation Plates

## Patella Luxation

### Luxation Plate

6-hole, 1.5 mm height, with gliding holes, for 2.4 mm screws

132-8200-01

### Spacer



Product Code	Spacer left
132-8010-02L	2 mm height, 3 holes, left
132-8010-04L	4 mm height, 3 holes, left
132-8010-06L	6 mm height, 3 holes, left



**NEW !**

Product Code	Spacer right
132-8010-02R	2 mm height, 3 holes, right
132-8010-04R	4 mm height, 3 holes, right
132-8010-06R	6 mm height, 3 holes, right

### Luxation Plate

4-hole, 1 mm height, with gliding holes for 2.4 mm screws

132-8200-02

### Spacer



Product Code	Spacer left
132-8020-02L	2 mm hight, 2 holes, left
132-8020-03L	3 mm hight, 2 holes, left
132-8020-04L	4 mm hight, 2 holes, left



Product Code	Spacer right
132-8020-02R	2 mm hight, 2 holes, right
132-8020-03R	3 mm hight, 2 holes, right
132-8020-04R	4 mm hight, 2 holes, right

### Luxation Plate

4-hole, 1 mm height, with gliding holes for 2.0 mm screws

132-8200-03

### Spacer



Product Code	Spacer left
132-8030-01L	1 mm hight, 2 holes, left
132-8030-02L	2 mm hight, 2 holes, left
132-8030-03L	3 mm hight, 2 holes, left
132-8030-04L	4 mm hight, 2 holes, left



Product Code	Spacer right
132-8030-01R	1 mm hight, 2 holes, right
132-8030-02R	2 mm hight, 2 holes, right
132-8030-03R	3 mm hight, 2 holes, right
132-8030-04R	4 mm hight, 2 holes, right

## Self-tapping Screws

### 2.0 Self-tapping Screws, Titanium

**Hexagonal** or **Star Drive** head, self tapping, with three flute cutting edge



Length (mm)	Hexagonal (Petite)	Star Drive (Petite)
6	245-220-06	245-520-06
8	245-220-08	245-520-08
10	245-220-10	245-520-10
12	245-220-12	245-520-12
14	245-220-14	245-520-14
16	245-220-16	245-520-16
18	245-220-18	245-520-18
20	245-220-20	245-520-20
22	245-220-22	245-520-22
24	245-220-24	245-520-24
26	245-220-26	245-520-26
28	245-220-28	245-520-28
30	245-220-30	245-520-30

### 2.4 Self-tapping Screws, Titanium

**Hexagonal** or **Star Drive** head, self tapping, with three flute cutting edge



Length (mm)	Hexagonal (Standard)	Star Drive (Standard)
6	245-224-06	245-524-06
8	245-224-08	245-524-08
10	245-224-10	245-524-10
12	245-224-12	245-524-12
14	245-224-14	245-524-14
16	245-224-16	245-524-16
18	245-224-18	245-524-18
20	245-224-20	245-524-20
22	245-224-22	245-524-22
24	245-224-24	245-524-24
26	245-224-26	245-524-26
28	245-224-28	245-524-28
30	245-224-30	245-524-30
32	245-224-32	245-524-32
34	245-224-34	245-524-34
36	245-224-36	245-524-36
38	245-224-38	245-524-38
40	245-224-40	245-524-40



**Tibia Tappet**
**Patella Saw**
**Twist Drill**
**TTA Depth Gauge**
**Tibia Tappet**

For inserting Patella  
Luxation Spacers.

**NEW**

Product Code	Description
132-4071-00	Petite / Tiny 2.0 mm
132-4070-00	Standard 2.4 mm



**luxation.leibinger.vet**

**Patella Saw**

with standard sawblade, incl. Allen Wrench 1.5mm

**23-1005-90**

**Twist Drill**


Product Code	Ø (mm)	Length (mm)	Connection
148-0080-15	1.5 (Petite)	70/30	straight sh.
148-0080-18	1.8 (Stand.)	125/25	straight sh.

Product Code	Ø (mm)	Length (mm)	Connection
148-0081-15	1.5 (Petite)	85/60	AO QC
148-0081-18	1.8 (Stand.)	125/25	AO QC

**TTA Depth Gauge**

Product Code	Description
164-1520-20	Petite 2.0 mm
164-2735-60	Standard 2.4 mm


**Plate Holding Forceps**

90 mm, curved

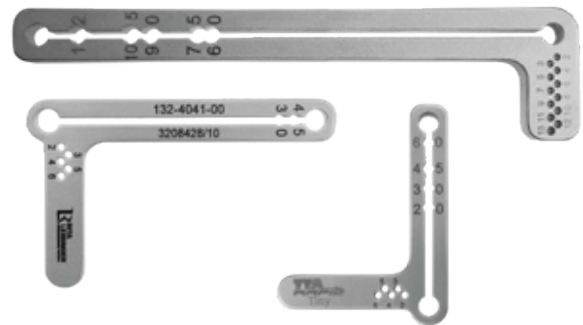
**164-0050-09**


## RAPID LUXATION Saw Guide

## Screwdriver Handle

### RAPID LUXATION Saw Guide

Product Code	Description
<b>132-4040-00</b>	for plate 132-8200-01
<b>132-4041-00</b>	for plates 132-8200-02 & -03
<b>132-4042-00</b>	for Tiny Cages size 2-6 mm



### TTA RAPID® Saw Guide Pin

Ø 1.0mm

**132-4030-10**



### Screwdriver Handle

Silicone, straight, AO-Connection  
sterilizable up to 134°C / 273°F

**247-0103-00**



### Screw Driver Shaft Hexagonal

AO connection, (Holding sleeve necessary)

Product Code	Description
<b>128-0900-15</b>	for 2.0 mm screws „Petite“
<b>128-0900-20</b>	for 2.4 mm screws „Standard“



### Holding sleeve

2.4 mm

**128-0940-24**



### Screw Driver Shaft Star-Drive

AO connection, self-holding (no holding sleeve needed)  
Star-Drive 8, for 2.0 & 2.4 mm Screws

**128-2024-08**



### Kirschner Wires, Single Trocar

Product Code	Description
<b>144-1015-10</b>	1.5 mm x 100 mm
<b>144-1025-10</b>	2.5 mm x 100 mm



### Drill Guide

1.5 / 1.8 mm, 100 mm Length

**164-0070-18**

