

# Tibial Stress Fx DISCOVERY MR750w

## Technical Instructions

**3-Plane Loc**

**Sag STIR**

**Ax T1**

**AX T2 dk fat**

**Long Axis T1**

**Long Axis T2 dk fat**

# 3-Plane Loc

## 3-Plane Loc

### PATIENT POSITION

Coil Configuration:	Lower Limb 24 6
Plane:	3-PLANE

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### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, EDR, Fast, SS, ARC
Phase:	2.00

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### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

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### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

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### SAT

Tag Spacing:	None
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Tag Type: None

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### **USER CVS**

User CV1: 1.00  
User CV2: 240.00  
User CV13: 1.00  
User CV16: None  
User CV39: 1.00  
User CV Mask2: 256

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### **DIFFUSION**

# Synthetic b-values: 1  
Synthetic b-value: 1000.0;  
Recon All Images: On

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### **SCAN TIMING**

TE: 80.2  
Number of Echoes: 1  
TR: Minimum  
Receiver Bandwidth: 62.50

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### **GATING/TRIGGER**

Auto Trigger Type: Off

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### **MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0

Preserve: 0

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### SCAN RANGE

FOV: 40.0  
Slice Thickness: 5.0  
Slice Spacing: 5.0  
Table Delta: 0.00

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### ACQ TIMING

Freq: 384  
Phase: 256  
Freq DIR: Unswap  
# of Acq. Before Pause: 0  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: Off  
RF Drive Mode: Preset  
Excitation Mode: Selective

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### CONTRAST

Contrast Yes/No: No

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### TRICKS

Pause On/Off: On  
Auto Subtract: 0

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### OTHERS

Anatomical Region: Leg

# Sag STIR

## Sag STIR

### PATIENT POSITION

Coil Configuration:	Lower Limb 24 6
Plane:	OBLIQUE

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### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	FC, Seq, EDR, TRF, Fast, ZIP512, IrP
PSD Name:	frfse-xl

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### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

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### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

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### SAT

Tag Spacing:	None
Tag Type:	None

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### **USER CVS**

User CV7:	None
User CV15:	None
User CV18:	None
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2000.0
TR Max:	15000.0

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### **DIFFUSION**

Recon All Images:	On
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### **SCAN TIMING**

Flip Angle:	111
TE:	44.0
Number of Echoes:	1
TR:	3200.0
TI:	180
Echo Train Length:	8
Receiver Bandwidth:	41.67

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### **GATING/TRIGGER**

Auto Trigger Type:	Off
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## MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0

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## SCAN RANGE

FOV:	38.0
Slice Thickness:	4.0
Slice Spacing:	0.4
Number of Slices:	24
Table Delta:	0.00

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## ACQ TIMING

Freq:	288
Phase:	192
Freq DIR:	S/I
NEX:	2.00
# of Acq. Before Pause:	0
Phase FOV:	0.60
Auto Shim:	Auto
Phase Correct:	Off
Flow Comp Direction:	Freq
RF Drive Mode:	Preset
Excitation Mode:	Selective
Fat Shift DIR:	Normal (S)

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## CONTRAST

Contrast Yes/No:	No
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**TRICKS**

Pause On/Off: On

Auto Subtract: 0

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**OTHERS**

Anatomical Region: Leg



# Ax T1

## Ax T1

### PATIENT POSITION

Coil Configuration:	Lower Limb 24 6
Plane:	OBLIQUE

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### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	TRF, Fast, ZIP512

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### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

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### SAT

SAT Location S:	9990
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SAT Location I:	9990
Tag Spacing:	None
Tag Type:	None

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### **USER CVS**

User CV6:	None
User CV7:	1.00
User CV8:	None
User CV9:	None
User CV15:	None
User CV21:	None
User CV22:	1.00
User CV Mask2:	0
TR Min:	400.0
TR Max:	850.0

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### **DIFFUSION**

Recon All Images:	On
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### **SCAN TIMING**

Flip Angle:	111
TE:	Min Full
Number of Echoes:	1
TR:	709.0
Echo Train Length:	4
Receiver Bandwidth:	31.25

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### **GATING/TRIGGER**

Auto Trigger Type: Off

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**MULTI-PHASE**

Seperate Series: 0  
Mask Phase: 0  
Mask Pause: 0

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**SCAN RANGE**

FOV: 16.0  
Slice Thickness: 3.0  
Slice Spacing: 1.5  
Number of Slices: 42  
Table Delta: 0.00

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**ACQ TIMING**

Freq: 288  
Phase: 224  
Freq DIR: R/L  
NEX: 2.00  
# of Acq. Before Pause: 0  
Phase FOV: 1.00  
Auto Shim: Auto  
Phase Correct: On  
RF Drive Mode: Preset  
Excitation Mode: Selective

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**CONTRAST**

Contrast Yes/No: No

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## **TRICKS**

Pause On/Off: On

Auto Subtract: 0

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## **OTHERS**

Anatomical Region: Leg

# AX T2 dk fat

## AX T2 dk fat

### PATIENT POSITION

Coil Configuration:	Lower Limb 24 6
Plane:	OBLIQUE

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### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	EDR, TRF, Fast, ZIP512, FR

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### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

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### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

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### SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat

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### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2500.0
TR Max:	11000.0

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### **DIFFUSION**

Multi b-values:	1000.0;
Multi NEX Values:	1;
Recon All Images:	On

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### **SCAN TIMING**

Flip Angle:	111
TE:	60.0
Number of Echoes:	1
TR:	4198.0
Echo Train Length:	8

Receiver Bandwidth: 41.67

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### **GATING/TRIGGER**

Auto Trigger Type: Off

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### **MULTI-PHASE**

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

---

### **SCAN RANGE**

FOV: 16.0

Slice Thickness: 3.0

Slice Spacing: 1.5

Number of Slices: 42

Table Delta: 0.00

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### **ACQ TIMING**

Freq: 288

Phase: 224

Freq DIR: R/L

NEX: 2.00

Phase FOV: 1.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

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### **CONTRAST**

Contrast Yes/No: No

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**TRICKS**

Pause On/Off: On

Auto Subtract: 0

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**OTHERS**

Anatomical Region: Leg



# Long Axis T1

## Long Axis T1

### PATIENT POSITION

Coil Configuration:	Lower Limb 24 6
Plane:	OBLIQUE

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### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, ZIP512

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### Image Recon

Intensity Filter:	None
Intensity Correction:	SCIC

---

### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

---

### SAT

SAT Location S:	9990
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---

SAT Location I:	9990
Tag Spacing:	None
Tag Type:	None

---

### **USER CVS**

User CV6:	None
User CV7:	1.00
User CV8:	None
User CV9:	None
User CV15:	None
User CV17:	1.00
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	400.0
TR Max:	850.0

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### **DIFFUSION**

Recon All Images:	On
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### **SCAN TIMING**

Flip Angle:	111
TE:	Min Full
Number of Echoes:	1
TR:	515.0
Echo Train Length:	4
Receiver Bandwidth:	31.25

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## GATING/TRIGGER

Auto Trigger Type: Off

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## MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

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## SCAN RANGE

FOV: 22.0

Slice Thickness: 3.0

Slice Spacing: Intleave

Number of Slices: 15

Table Delta: 0.00

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## ACQ TIMING

Freq: 320

Phase: 224

Freq DIR: S/I

NEX: 2.00

# of Acq. Before Pause: 0

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Preset

Excitation Mode: Selective

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## CONTRAST

Contrast Yes/No: No

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## TRICKS

Pause On/Off: On

Auto Subtract: 0

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## OTHERS

Anatomical Region: Leg

# Long Axis T2 dk fat

## Long Axis T2 dk fat

### PATIENT POSITION

Coil Configuration:	Lower Limb 24 6
Plane:	OBLIQUE

---

### IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, ZIP512, FR

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### Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

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### FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

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### SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat

---

### **USER CVS**

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV19:	1.00
User CV21:	None
User CV22:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2500.0
TR Max:	11000.0

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### **DIFFUSION**

Recon All Images:	On
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### **SCAN TIMING**

Flip Angle:	111
TE:	60.0
Number of Echoes:	1
TR:	2000.0
Echo Train Length:	8
Receiver Bandwidth:	31.25

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## GATING/TRIGGER

Auto Trigger Type: Off

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## MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

---

## SCAN RANGE

FOV: 22.0

Slice Thickness: 3.0

Slice Spacing: Intleave

Number of Slices: 22

Table Delta: 0.00

---

## ACQ TIMING

Freq: 288

Phase: 224

Freq DIR: S/I

NEX: 2.00

# of Acq. Before Pause: 0

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

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## CONTRAST

Contrast Yes/No: No

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## TRICKS

Pause On/Off: On

Auto Subtract: 0

---

## OTHERS

Anatomical Region: Leg