

THE MOUNTING ASSISTANCE MENU

		C	1	<	0	°	S	9	5	0	X	0	0	1
S	9	1	6	S	>	2	3	°	S	9	3	2	X	1
B	9	0	6	N										
S	9	1	0	X					0	1	0	C	0	0

The menu 6 of the treatment unit as for object to inform the operator on different sensors validation .

This screen is divided in 3 columns on 4 lines.

For each S930 X switch position (choice of the mounting phase) corresponds a menu which indicates different necessary sensors to this phase.

C1 indicates the S930X switch position. The S930X switch position indicator can have 5 different means: « C1 / C2 / C3 / C4 / -- » the 2 dotted lines indicate an undefined position.

<0° indicates the jib position at 0° or 30° inductive sensor B910N= 0° (horizontal jib control) and B912N=30° (raised jib control) on the crane. This pictogram indicates the inferior position or equal to 0° and equal to 30° . The jib position indication can have 4 different means : « <0° / =0° / =30° / ---- » the indication <0° is flashing if the jib is not horizontal and if the S930X switch is in C4 Work position the 4 dotted lines indicate a known condition.

S950X indicates the switch mast/jib positionon the transmitter , the 3 last digit indicate this position 010 neutral position / 100 jib position / 001 mast position. The indication of the S950X switch position can have 4 different means : « 010 / 100 / 001 / 000 » the 3 zeros indicate an unknown condition.

S916S or S918S indicate the retaining lock position : S916S unlocked lock active S918S locked lock active. The indication of the retaining lock position can have 3 different means : « S916S / S918S / ---- ». The S916S indication is flashing if S930X is in C4 Work position. The S918S indication is flashing if S930X is in C3 Mounting position. The 4 dotted lines indicate an unknown condition (ex: lock in intermediary position).

MOUNTING ASSISTANCE USE

			C 1		< 0 °		S 9	5 0	X	0 0	1
S 9	1 6	S			> 2 3 °		S 9	3 2	X 1		
B 9	0 6	N									
S 9	1 0	X					0 1	0 C	0 0		

>23° indicates the S921S contact opening jib position in the jib .This pictogram indicates the inferior or superior position at 23° of opening jib. The opening jib indication can have 2 different means: « >23° / <23° » .

S932X Indicates the jib mounting position : X1 jib 0° / X2 Maintenance / X3 jib 30° . The S932X switch indication can have 4 different means: « X1 / X2 / X3 / ---- » . X1 jib 0° X2 maintenance X3 jib 30° . Dotted lines indicate an unknown position.

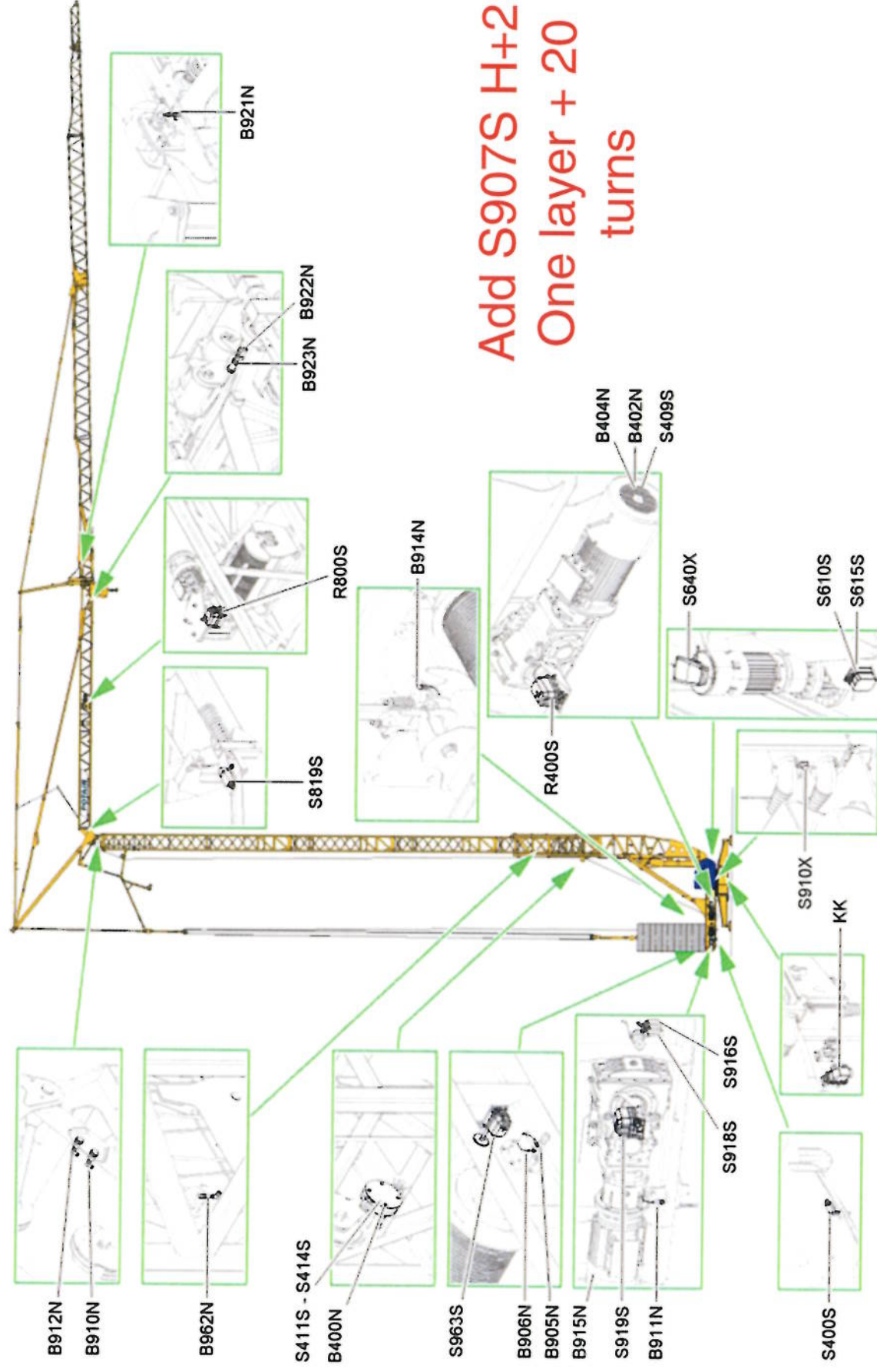
B905N or B906N indicate the telescopic claw : B905N engaged position active B906N disengaged position active . The telescopic claw indication can have 3 different means: « B905N / B906N / ---- » . The B905N indication is flashing if S930X is in C4 Work position. The 4 dotted lines indicate an unknown condition (ex: intermediary position of the claw).

The S910X push button indication can have 3 different means: fixe, flashing, or ---- (dotted lined). The S910X fixe indication indicates that all necessary conditions to work are gathered. The S910X indication is flashing if S930X is in C4 Work position and that all necessary conditions are not gathered. Dotted lines indicate that the S910X switch is on another position than C4.

S910X push of the retaining winch control. Used to line up the retaining lock and for the brake opening to free efforts in the retaining reducer.

The last digits are not used for the mounting assistance.

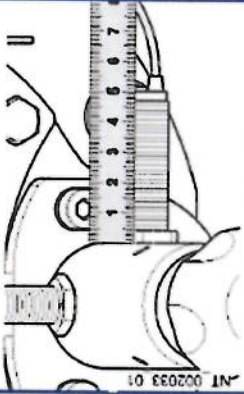
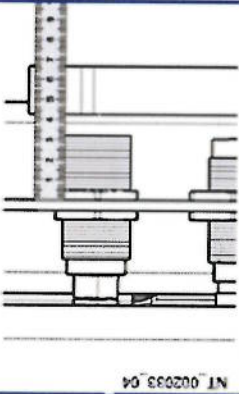
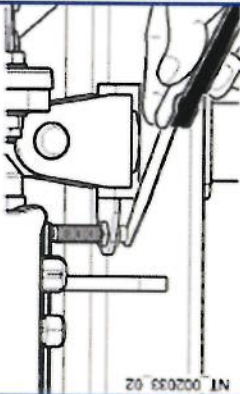
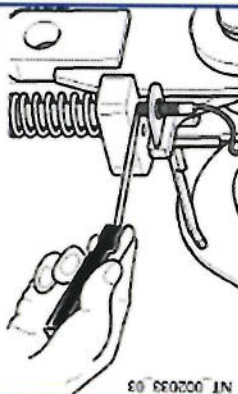
Place of safety devices



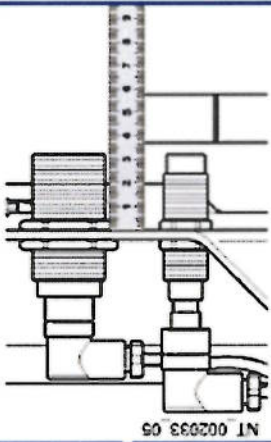
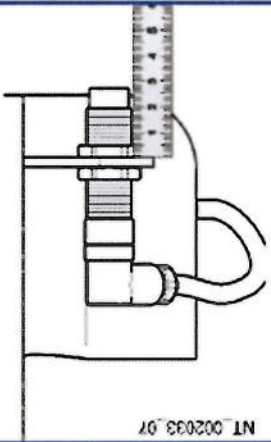
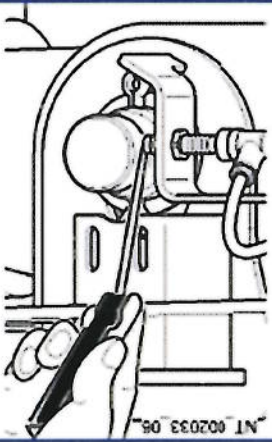
Place of safety devices

B 400 N : Strain gauge ring	S 400 S : Hoisting moment control contact(125%)
B 402 N : Inductive detector hoisting speed control	S 409 S : Contact of hoist winch brake
B 404 N : Inductive detector hoisting speed control	S 411 S : Maximum load control contact (125%)
B 905 N : Inductive detector locking control	S 414 S : Maximum load control contact (1400KG)
B 906 N : Inductive detector unlocking control	S 610 S : Limit switch slewing right
B 910 N : Inductive detector horizontal jib control	S 615 S : Limit switch slewing left
B 911 N : Inductive control sensor retaining winch	S 640 X : Weathervaning control contact
B 912 N : Inductive detector raised jib control 30°	S 819 S : Trolley rope tension control contact
B 914 N : Inductive control retaining rope slackened	S 907 S : Safety contact middle-height raised jib
B 915 N : Inductive control sensor retaining winch speed	S 910 X : Jib retaining control contact
B 921 N : Inductive control sensor of jib aligned	S 916 S : Contact unlocking retaining winch
B 922 N : Inductive control sensor opening jib	S 918 S : Contact locking retaining winch
B 923 N : Inductive control sensor jib folded	S 919 S : Contact end of unwinding retaining winch
B 962 N : Inductive control sensor upper telescoping	S 963 S : Contact end of unwinding telescoping winch
R 400 S : Potentiometer of hoisting stroke	KK : Plug on chasis (wired control)
R 800 S : Potentiometer of trolleying stroke	

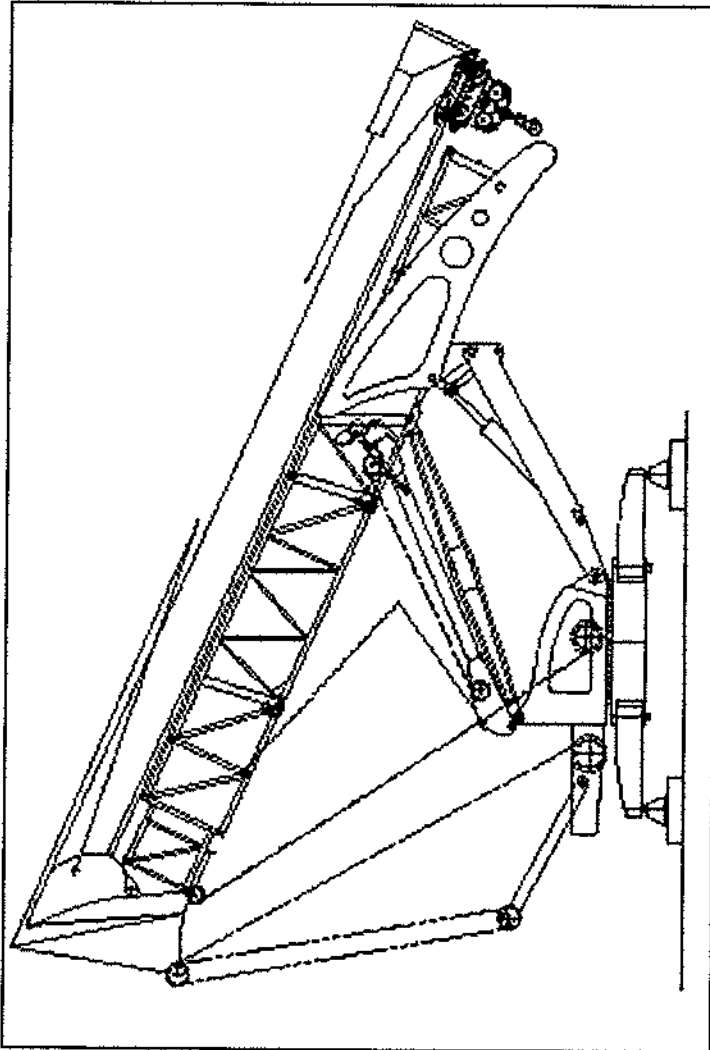
Inductive sensors adjustments

Inductive detector	Adjustment value	
B905N : Inductive detector Locking control B906N : Inductive detector Unlocking control	50 mm	
B910N : Inductive detector Horizontal jib control B912N : Inductive detector Raised jib control	32 mm	
B911N : Inductive detector Retaining winch control	1 mm	
B914N : Inductive detector Control of Retaining rope slackened	3 mm	

Inductive sensors adjustments

Inductive detector	Adjustment value
B922N : Inductive detector of Jib opening control B923N : Inductive detector of Jib folded control	32 mm 
B962N : Inductive detector of Upper telescoping control	27 mm 
B921N : Inductive detector of Aligned jib control	3 mm 

C1 POSITION HEARTH ROD RAISING MASTS GUY ROPES



C 1	< 0 °	S 9 5 0 X	0 0 1
S 9 1 6 S	< 2 3 °	S 9 3 2 X 1	
B 9 0 5 N		0 1 0 C 0 0	

S916S = UNLOCKED = J3/7 = 1 & J 3/8 =0 & B911N = 1 retaining reducer in mechanical support
B906N = DISENGAGED= J 2/10 =1 & J 2/7 =0

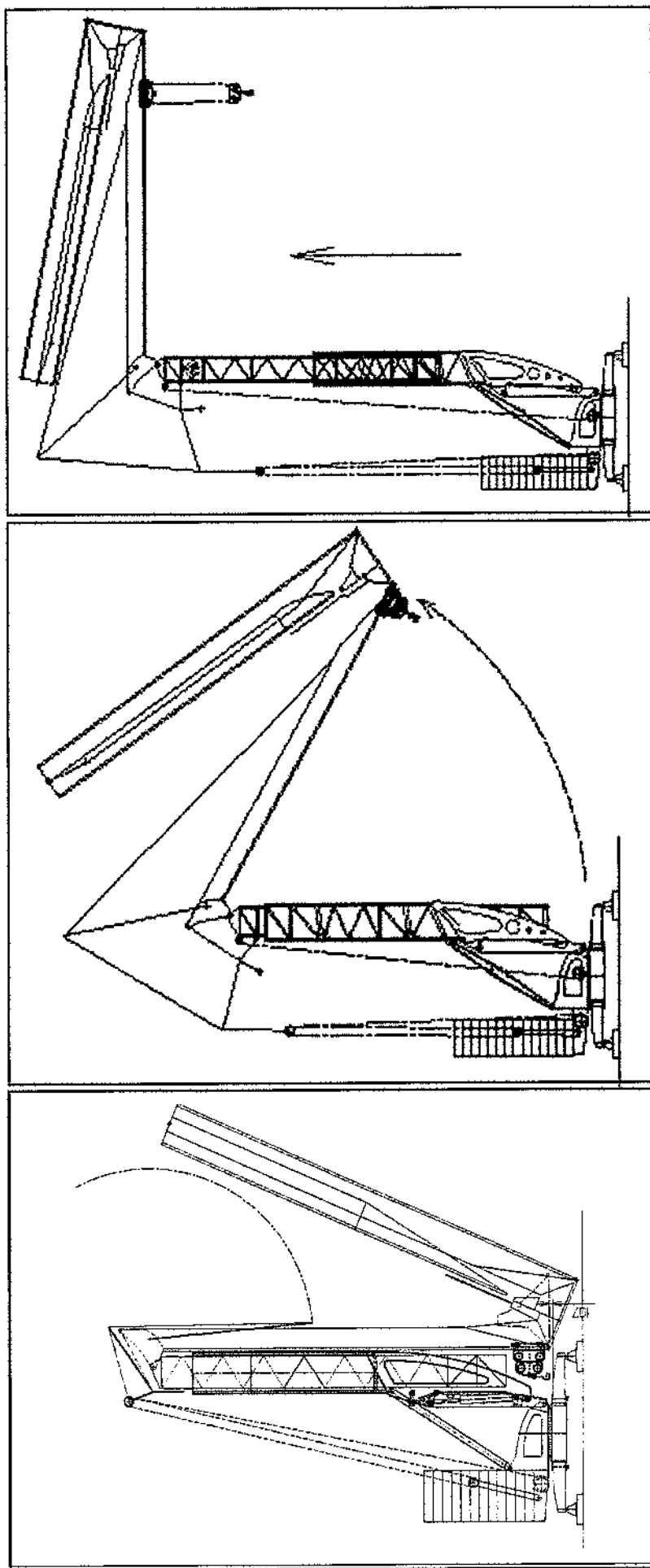
C1 POSITION HEARTH ROD RAISING MASTS GUY ROPES

	Hearth rod Raising mast Guy ropes
Position	C1 position
Winch	
HOISTING	Temporized cable winder: S950X/mast + travelling control OR hoisting (2V) if S950X/Neutral
TROLLEYING	NO
ROTATION	PV
TRAVELLING	NO
RETAINING	DISENGAGE J 2/10 = 1 & J 2/7 = 0 & UNLOCK J 3/7 = 1 & J 3/8 = 0 & B911N = 1 (mechanical support of the retaining reducer) & S950X = mast
TELESCOPING (sup motor)	NO
RETAINING + TELESCOPING	NO
DERRICK (SLEWING)	NO
RAISING Mast	S950X/Mast
JIB	NO

C1 POSITION HEARTH ROD RAISING MASTS GUY ROPES

S950X	S950X/mast J 7/7 output torque cable winder function + J 7/8 raising group		Neutral	S950X/jib
	up	0	UP 1° NOTCH J 8/3 2° NOTCH J8/5	0
Hoisting lever	down	0	DOWN 1° NOTCH J8/4 2° NOTCH J 8/5	0
	up	RETAINING DOWN J 9/3	0	0
Trolleying lever	down	RETAINING UP J 9/4	0	0
	up	RIGHT ROTATION J 7/7		
Slewing lever	down	LEFT ROTATION J 7/8		
	right	MAST UP: J9/7 Solenoid valve cylinder of the up mast + J 8/ 3 1° notch mounted for cable winder function	0	0
Travelling lever	left	DOWN MAST: J 9/8 Solenoid valve cylinder of the down mast + J 6/3 J 6/4 Solenoid valve arm cylinder flip flop function + J 7/10 motor brake auxiliary telescope +	0	0

C3 POSITION UNFOLDING MOUNTING



C 3	< 0 °	S 9 5 0 X	0 0 1
S 9 1 6 S	> 2 3 °	S 9 3 2 X 1	
B 9 0 6 N			
		0 1 0 C 0 0	

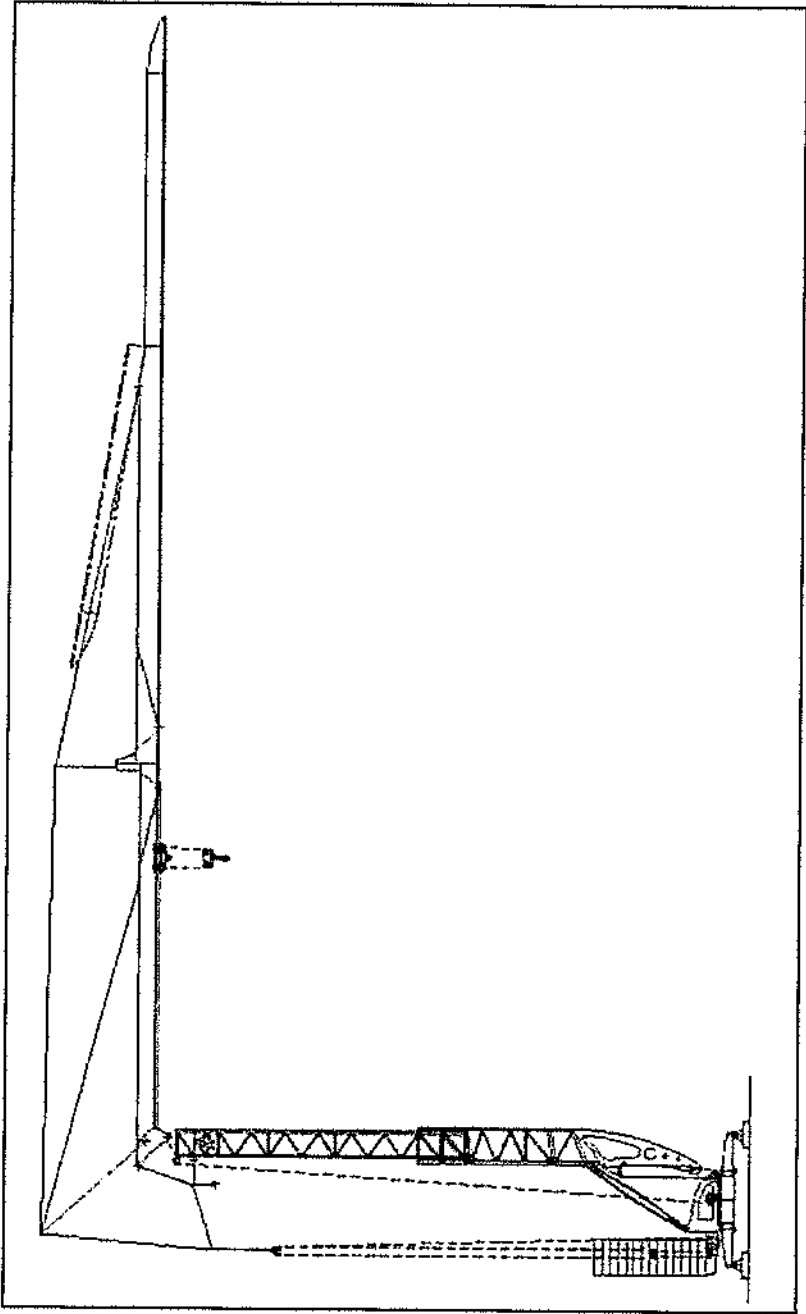
C3 POSITION UNFOLDING MOUNTING

	Mounting / Unfolding	
	Winch	Position
		C3 position J 10/3 = 1
HOISTING		Temporised cable winder : S950X/mast YES (2speeds) if S950X/Neutral
TROLLEYING		YES (2 speeds) to search for extension mast if S950X/Neutral
ROTATION		PV
TRAVELLING		NO
RETAINING		YES if DISENGAGED & if S950X/mast & if S921S = 1 (J 2/4=1) jib opening 23°
TELESCOPING (auxiliary motor)		YES if DISENGAGED if S950X/mast
RETAINING + TELESCOPING		YES if DISENGAGED & if S950X/mast & if S921S = 0 (J 2/4 =0) jib supporting on the tie bar
DERRICK (SLEWING)		NO
RAISING mast		NO
JIB		YES if S950X on jib : unfolding if contact S921S = 0 (J 2/4=0) when S921S = 1 = horn = opening jib 23°= jib unfolding stop (J 2/4=1) if not horizontal jib

C3 POSITION MOUNTING UNFOLDING

S950X	S950X/mast	Neutral	S950X/jib
Hoisting lever	up	UP	0
	down	DOWN	0
Trolleying lever	in	IN TROLLEY	0
	out	OUT TROLLEY	0
Slewing lever	right	RIGHT	
	left	LEFT	
Travelling lever	right	0	UNFOLDING JIB J 9/1 Solenoid valve unfolding jib
	left	0	FOLDING JIB J 9/2 Solenoid valve folding jib

C4 POSITION WORK



C 4	= 0 °	S 9 5 0 X	0 1 0
S 9 1 8 S	< 2 3 °	S 9 3 2 X 1	
B 9 0 6 N			
S 9 1 0 X		0 1 0 C 0 0	

S916S = TO LOCK = J3/7 = 0 & J 3/8 = 1
B906N = TO DISENGAGE = J 2/10 =1 & J 2/7 =0

C4 POSITION WORK

	WORK	
	Position	C4 POSITION
Winch		
HOISTING		YES
TROLLEYING		YES
ROTATION		YES
TRAVELLING		YES
RETAINING		NO
TELESCOPING (auxiliary motor)		NO
RETAINING + TELESCOPING		NO
DERRICK (ROTATION)		NO
RAISING Mast		NO
JIB		YES if J10.5=J10.6=1 switch S931X jib hydraulic position (see page 53)

C4 POSITION WORK

S950X		S950X not taking to account	Fold jib = 1 Unfold jib = 1
Hoisting ctrl	up	UP	
	down	DOWN	
Trolleying ctrl	up	IN TROLLEY	
	down	OUT TROLLEY	
Slewing ctrl	up	RIGHT ROTATION	
	down	LEFT ROTATION	
Travelling ctrl	up	IN TRAVELLING	FOLDING JIB J 9/1 = 1
	down	OUT TRAVELLING	UNFOLDING JIB J 9/2 = 2

REPAIRS ASSISTANCE

NO CONNECTION GREEN HF LED 8 AND GREEN LED 13 OF THE SWITCHED OFF CARD B2

With the unit treatment support you can check the radio connection

With the support of jibs and « ENTER » button

Go to the menu « MAINTENANCE/TRANSMITTER/RADIO LINK
/INFORMATIONS »

R E C E P T E U R L I A I S O N R A D I O I N F O R M A T I O N S

Validate by the « ENTER » button, the following screen appears

L I A I S O N R A D I O R S S I 9 0 % R A T E 1 G R . 3 F R E Q . 4 3 4 M H Z T O 1 . 0 S A D D R . 1 6 1 3 9 3

« RSSI » represents the quality of the radio connection in %

If percentage is inferior to 40 % check :

That KK connection is not connected

That the frequency group of the treatment unit and of the transmitter is the same

That the indicated frequency on the HF head corresponds to the selected frequency

That the coding kcys adress of the treatment unit and of the transmitter is the same

Proceed for a channel change (see procedure on page 56)

Control and change the antenna rope and the antenna

Proceed to the change of the HF head of the treatment unit. If HF connection is not restored place the HF head of the treatment unit in the transmitter .

TRANSMITTER REPAIRS ASSISTANCE

DURING SUPPLYING OF THE TRANSMITTER ONCE THE EMERGENCY STOP IS TOOK OUT, THE GREEN LED IS FASTLY FLASHING AND THE SCREEN INDICATES « STOPPED ».

Emergency stop in short circuit : Check the emergency stop with the transmitter test menu (see page 22 to 29)

Dead man of an engaged master control : Check the switch with the transmitter test menu.

DURING SUPPLYING OF THE TRANSMITTER ONCE THE EMERGENCY STOP IS TOOK OUT, THE 3 LEDS ARE LIGHTED AND THE SCREEN INDICATES « STOPPED ».

Check the correspondance of the frequency strip between : the HF head and the selected frequency selected in the transmitter. Change the frequency (see page 55)