



## SL0014 SMARTlift Crane Synchronisation Procedure

SL0014	Version 1	SMARTlift	1 Dec 06
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<b>MAIN MENU</b> CHK. OPERATING TIME CRANE SYNCRONISATION MANUAL OVERRIDE MANUFACTURERS AREA VIEW SENSOR VALUES VIEW JOYSTICKS	<b>LOW SPEED CRANE SYNC</b> (ENSURE LOW SPEED IS SELECTED ON REMOTE) TOP ARM SYNC. BOTTOM ARM SYNC. RETURN TO MAIN MENU	<b>TOP ARMS</b> LOW SPEED SYNCRONISATION FRONT UP = 00 % REAR UP = 00 % FRONT DOWN = 00 % REAR DOWN = 00 % RETURN TO SYNC MENU
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Figure 23 - Main Menu

Figure 24 – Crane Sync. Menu

Figure 25 – Top Arm Sync Screen

Crane synchronisation is available through the display screen menu structure. Synchronisation is only effective when **Low speed** is selected on the remote.

1. Set the correct engine speed.

If using Power Pack Version: Check the engine maximum speed is 2800 rpm.

If using PTO Version: Set the truck engine rpm to obtain 100-120 l/min oil flow to the Sidelifter.

2. On the remote control, select **Low speed** and **Arms mode**.
3. On the display screen, go to the Main Menu. Select **Crane Synchronisation**.
4. Enter the PIN number provided with this manual by turning the **display dial** and pressing it when the correct digit appears, then turning the dial to go to the next field and pressing, and turning to select the number etc.
5. When the PIN is correctly submitted, the Crane Sync menu appears as shown in Figure 24.
6. Select **Top Arm Sync**, and the Top Arm screen appears as shown in Figure 25.
7. On the remote control, select both top arms up with the joysticks at full deflection and time the arms in seconds, over their full stroke.

	SB330	SB361	SB400
Top Arm Up	48 sec	52 sec	54 sec
Top Arm Down	30 sec	32 sec	35 sec
Bottom Arm Up	65 sec	90 sec	90 sec
Bottom Arm Down	50 sec	70 sec	70 sec

If the time of either or both does not match the time in the table above, you will need to adjust the percentage values on the screen until it does. To do this, select the appropriate function by turning the dial then pressing it. You can then adjust the value up or down by turning the dial back or forward, and then save the new value by pressing the dial again.



8. Repeat for the Bottom Arms.

## Testing the Synchronisation Settings

Test the settings when lifting a 15-20 tonne container to check that the arms are synchronised under normal loading and unloading conditions. Small adjustments of the percentage values may be required to achieve this.



Try slowing down the fast arm instead of speeding up the slow arm as you run the risk of running out of available oil flow to gain speed / synchronisation. Remember to actuate both front and rear cranes simultaneously when doing the timing.