



CHAMPION CONTROLS. INC.

CHAPTER 2

OPERATING PROCEDURE

(Normal Mode)

Step	Normal Operation Procedure
1	Turn Control Power to ON.
2	Green light extinguishes and the Yellow indicator illuminates. (FLASH)
3	Turn Traffic Lights Switch to STOP. After 5 sec delay, Yellow light extinguishes, and Red-Light illuminates.
4	Gate lights are on, and Gate Gong starts to sound.
5	Lower the Near Warning Gate; raise indicator extinguishes. When gate is lowered; LOWER indicator, on control console, is illuminated.
6	Lower the Far Warning Gate; raise indicator extinguishes. When gate is lowered; LOWER indicator, on control console, is illuminated.
7	Lower the Near Barrier Gate; open indicator extinguishes. When gate is lowered; LOWER indicator, on control console, is illuminated.
8	Lower the Far Barrier Gate; open indicator extinguishes. When gate is lowered; CLOSED indicator, on control console, is illuminated.
9	Turn and hold the Wedge switch to Pull.
10	Wedges begin to pull and Wedges DRIVE indicator extinguishes.
11	When wedges are fully pulled. Wedges PULL indicator is illuminated.
12	Press and release Span Open Push Button to open.
13	As Span begins to open, the fully closed indicator light extinguishes
14	Span begins to open and accelerates to full speed.
15	When span reaches nearly open position at approximately 83°, span enters creep speed.
16	Span stops at the fully open position at approximately 89°, and Full open indicator light is illuminated.
17	Press and release Span Close Push Button to Close.
18	As Span begins to Close, the fully Open indicator light extinguishes.
19	Span begins to Close and accelerates to full speed.
20	Span enters creep speed at the nearly Close position at approximately 6°.
21	Span stops at the fully Closed position.
22	Fully Close indicator lights on control console illuminate at the fully Closed position.
23	Turn and hold the Wedge switch to DRIVE.
24	When wedges are fully driven, Wedges DRIVE indicator is illuminated.
25	Raise Far Barrier; RAISE indicator extinguishes. When Far barrier is raised; raise indicator, on control console is illuminated.
26	Raise Near Barrier; RAISE indicator extinguishes. When Near barrier is raised; raise indicator, on control console is illuminated.
27	Raise the Far warning Gate; CLEAR indicator extinguishes. When gate is raised, RAISE indicator, on control console, is illuminated.
28	Raise the Near warning Gate; CLEAR indicator extinguishes. When gate is raised, RAISE indicator, on control console, is illuminated.
29	Turn Traffic lights to FLASH.
30	Turn Control Power Off.
31	Move "DRIVE SELECT" lever to the other drive.

(Winter Mode)

Step	Normal Operation Procedure
1	Turn Control Power to ON.
2	Green light extinguishes and the Yellow indicator illuminates. (FLASH)
3	Turn Traffic Lights Switch to STOP. After 5 sec delay, Yellow light extinguishes, and Red-Light illuminates.
4	Gate lights are on, and Gate Gong starts to sound.
5	Lower the Near Warning Gate; raise indicator extinguishes. When gate is lowered; LOWER indicator, on control console, is illuminated.
6	Lower the Far Warning Gate; raise indicator extinguishes. When gate is lowered; LOWER indicator, on control console, is illuminated.
7	Lower the Near Barrier Gate; open indicator extinguishes. When gate is lowered; LOWER indicator, on control console, is illuminated.
8	Lower the Far Barrier Gate; open indicator extinguishes. When gate is lowered; CLOSED indicator, on control console, is illuminated.
9	Turn and hold the Wedge switch to Pull.
10	Wedges begin to pull and Wedges DRIVE indicator extinguishes.
11	When wedges are fully pulled. Wedges PULL indicator is illuminated.
12	Press and release Span Open Push Button to open.
13	As Span begins to open, the fully closed indicator light extinguishes
14	Span begins to open and accelerates to full speed.
15	When span reaches nearly open position at approximately 83°, span enters creep speed.
16	Span stops at the fully open position at approximately 89°, and Full open indicator light is illuminated.
17	Press and release Span Close Push Button to Close.
18	As Span begins to Close, the fully Open indicator light extinguishes.
19	Span begins to Close and accelerates to full speed.
20	Span enters creep speed at the nearly Close position at approximately 13°.
21	Span stops at the fully Closed position.
22	Fully Close indicator lights on control console illuminate at the fully Closed position.
23	Turn and hold the Wedge switch to DRIVE.
24	When wedges are fully driven, Wedges DRIVE indicator is illuminated.
25	Raise Far Barrier; RAISE indicator extinguishes. When Far barrier is raised; raise indicator, on control console is illuminated.
26	Raise Near Barrier; RAISE indicator extinguishes. When Near barrier is raised; raise indicator, on control console is illuminated.
27	Raise the Far warning Gate; CLEAR indicator extinguishes. When gate is raised, RAISE indicator, on control console, is illuminated.
28	Raise the Near warning Gate; CLEAR indicator extinguishes. When gate is raised, RAISE indicator, on control console, is illuminated.
29	Turn Traffic lights to FLASH.
30	Turn Control Power Off.
31	Move "DRIVE SELECT" lever to the other drive.

Manual span sequence of operation with no electrical power

Step	Manual span sequence of operation with no electrical power
1	Remove lids to wedge and drive motor capstan shaft
2	Place manual operation capstan tool on wedge motor capstan shaft
3	Turn capstan shaft counterclockwise until wedges are fully pulled
4	Place manual operation capstan tool on drive motor capstan shaft
5	Turn capstan shaft clockwise to spin the bridge until fully open
6	Turn capstan shaft counterclockwise to spin the bridge until fully closed
7	Place manual operation capstan tool on wedge motor capstan shaft
8	Turn capstan shaft clockwise until wedges are fully driven
9	Secure capstan shaft lids back to bridge deck and return manual operation capstan tool