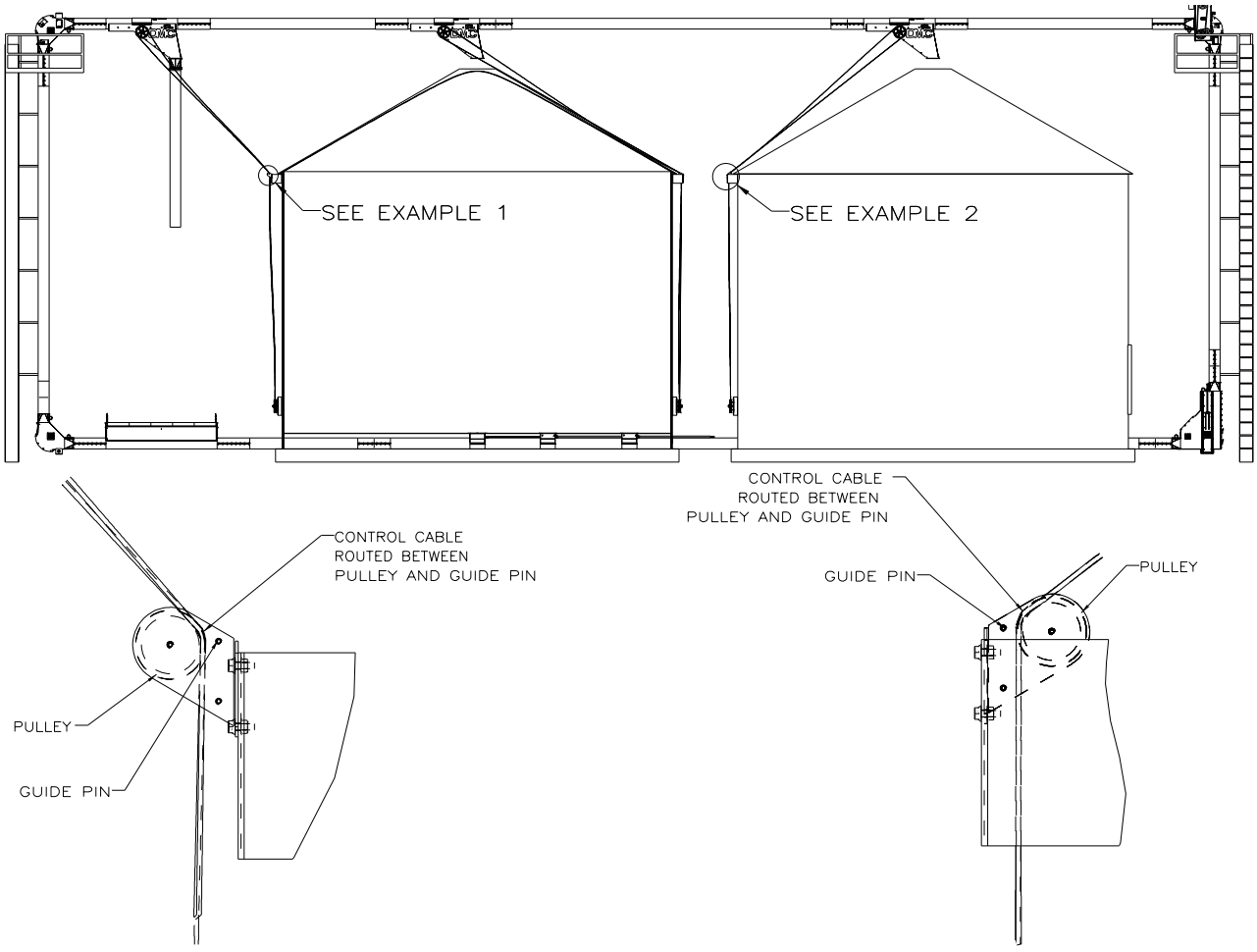
Chain Loop System - Ground Control Kit
Ground Control Kit for Discharge Gates

Determine the best location for each ground control kit. Note that each kit comes with 100 ft of cable, which should be adequate for individual bin installations.

The cable idler pulley bracket is usually mounted at the top of the bin wall, just under the roof eve, in line with the control wheel on the discharge gate. The ground control wheel-mounting bracket should be mounted to the bin wall directly under the idler pulley bracket at a convenient operating height. It is important to keep the cable in line with the control wheels on both the discharge gate and at the ground to avoid having the cable "walk off" the either wheel.

The ground control wheel can be mounted to the same bin as the discharge gate, or to an adjacent bin. See examples 1 & 2.



EXAMPLE 2

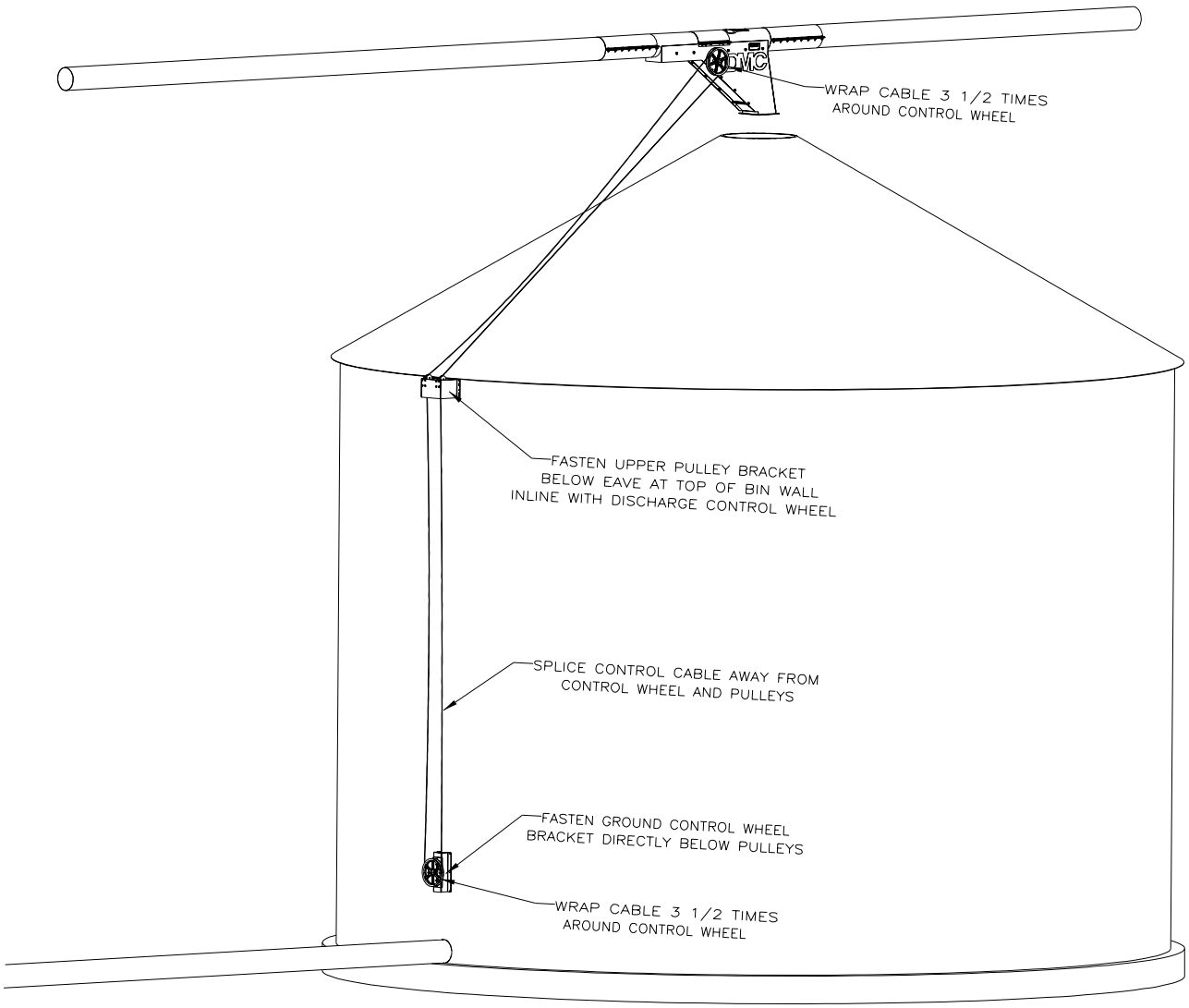
CONTROLS MOUNTED ON ADJACENT BIN

EXAMPLE 1

CONTROLS MOUNTED ON BIN WHERE THE DISCHARGE IS LOCATED

Assemble the idler pulleys to the mounting bracket on the inside surface if the cable is going to a discharge gate on the same bin. Assemble them on the outside if the cable is going to an adjacent bin. Attach the idler pulley bracket to the bin wall just under the eve to ensure that the cable will clear the bin roof.

Attach the ground control wheel bracket to the bin wall directly below the idler bracket. Assemble the wheel-mounting bracket loosely to the wall bracket and slide it up as far as possible. Assemble the control wheel to the shaft and secure with cotter pins. See page 4.



Make sure that the discharge gate is half open **and wrap the cable 3 ½ times around the discharge gate control wheel. Note that turning the wheel clockwise will close the gate.**

Secure the cable to the wheel with the cable clamp by attaching it to the approximate middle of the 3-½ wraps of cable. This will insure that the gate will fully open and close without restriction from the cable clamped to the wheel.

Make sure that the discharge gate is still half open.

Route the cable back through the right idler pulley and down to the ground control wheel.

At the ground control wheel, turn the wheel until the cable clamp is up and wrap the cable 3 ½ times around it.

Secure the cable clamp to the middle wrap.

Splice the ends of the cable with a cable clamp. With discharge gate half open, the splice should be at least 5 ft away from the pulleys and control wheels.

Slide the ground wheel bracket down to take up any slack in the cable and tighten in place.

Check the installation by turning the ground wheel clockwise to fully close the discharge gate and counterclockwise to fully open the gate without any restrictions from the cable splice or the clamps on the control wheels.

If the rotation is wrong, then reverse the direction of the 3-½ wraps on the ground control wheel.

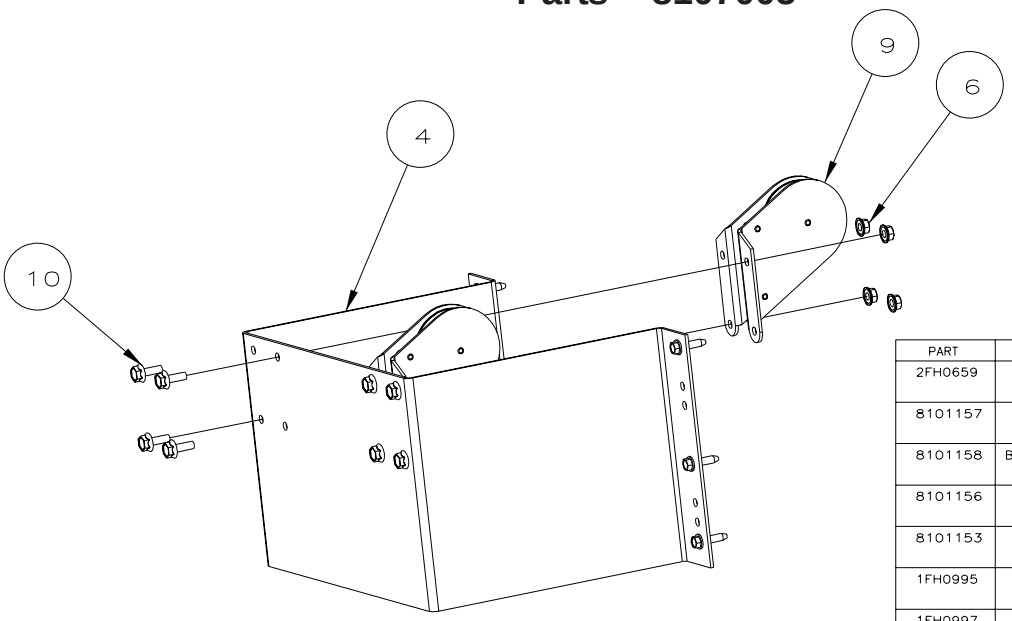
OPERATION OF CONTROL KITS

Each control system should be marked to identify which discharge gate is being controlled.

Each control system should be marked after installation to clearly identify whether the discharge gate is open or closed.

Setscrews in the ground control wheel can be used to lock the wheel in position to prevent accidental opening or closing of the discharge gate.

Parts - 8107005



PART	DESCRIPTION	QTY
2FH0659	BOLT– CAR,STD THRD–GRD 2 3/8–16 UNC X .75, PLTD	2
8101157	BRACKET– BIN WALL MOUNT GROUND CONTROL KIT	1
8101158	BRACKET– CONTROL WHEEL, WLDMT ZINC PLATED 8101159	1
8101156	BRACKET– PULLEY MOUNT, GROUND CONTROL KIT	1
8101153	CONTROL WHEEL– W/CLAMP 90° DISCHARGE W/GATE	1
1FH0995	NUT– LOCK,FLG, 1/4–20UNC (WHIZ LOCK) PLTD.	8
1FH0997	NUT– LOCK,FLG, 3/8–16UNC (WHIZ LOCK) PLTD.	2
3FH0732	PIN– COTTER, STANDARD 3/16'' X 1–3/4'' LONG	2
PT0550	PULLEY– HOT HOUSE, (NOLIN MILLING NO #)	2
2FH0981	SCREW– MF FLG WHIZ LOCK 1/4–20 UNC X 3/4'', PLTD	8
2FH0544	SCREW– S/DRILL, WH HX HD 1/4–14 X 1, (TEK3) PLTD	12
3FH0865	WASHER– FLAT, STANDARD 3/8'', PLTD	2
3FH0872	WASHER– FLAT, STANDARD 1'', PLTD.	2