

## Mounting the Console

The RAM Mounting System provided gives you options for mounting your console. It fits many different sizes of monitor bars inside the tractor cab.

## Install Power and Control Cables

Install the four-pin cable to the control box on the Protrakker Hitch. Carefully route the four-pin cable up to the tractor cab.

Install the four-pin connector to the console and then install the remaining two-pin power cable. Route the power cable to a reliable 12-volt supply. We recommend going directly to the battery.

**Red wire** = positive      **Black wire** = negative



## Powering Up

With the control console in the off position, start up the tractor. Lock the correct hydraulic lever into place and turn console to manual mode. Using left and right jog button, observe the indicator and hitch moving. Switch to auto mode and take tractor to a hillside to observe auto mode working. **Note: If these modes are not working properly switch around the pressure and return lines.**



**Manual Mode:** This function enables the operator to move the hitch left or right by using the jog switch.

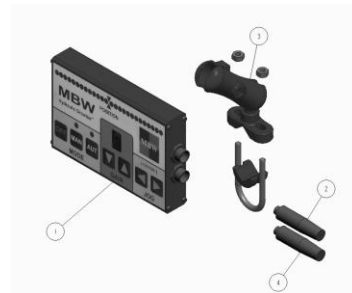
**Auto Mode:** This function enables the hitch to sense side hill slope and automatically compensates to establish level reference value.

**Gain Function:** This enables the operator from the cab to adjust the Hitch travel more or less per degree of slope. This is particularly useful when switching to implements with different pin to axle lengths.



## Parts Diagram: Cab Control Assembly

ITEM	PART #	DESCRIPTION	QTY
1	CC1	CAB CONTROL BOX	1
2	HBC	CAB BOX TO SENSOR BOX CABLE	1
3	MC1	RAM MOUNT	1
4	PC1	POWER CABLE	1



## Trouble Shooting

### Problem: The hydraulic hitch does not move

The tractor hydraulics are not active.		Make sure the hydraulic hoses are hooked up correctly (line labeled pressure; the other line return).
Poor electrical connection.		Check Indicator lights on the hydraulic block coil connectors. If no light, check cable connections. If lights show, then replace the coil.
Error codes.	1 – CONTROLLER 2 – HUB 3 – POSITION 4 – VALVE 5 – TILT	An error code is a number flashing in the gain window and lights traveling continuously across the light bar. The number flashing tells us where the error is. An error code could be a component failure or a simple connection issue. <b>Be sure to check all connections before replacing components.</b>

### Problem: The hydraulic hitch moves the wrong direction

The tractor hydraulics are reversed		Make sure the hydraulic hoses are hooked up correctly (line labeled pressure; the other line return).
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### Problem: The hydraulic hitch seems very “jerky” and seems to “hunt” when the tractor is at a standstill

The hydraulic flow is too fast		Turn the oil flow way down. The slower the hitch moves, the better it will perform. If you tractor hydraulics will not turn down far enough, ProTrakker offers a needle valve to put inline.
Too much 3-point movement		Tighten up drawbar and/or 3-point slap. When the hitch stops it will sense any looseness or slop and a chain reaction will occur.

## Calibrating Instructions

**UNIT IS ALREADY FACTORY CALIBRATED. CALIBRATION IS ONLY NEEDED IF A SENSOR HUB OR POSITION SENSOR HAS BEEN CHANGED!**

### Instructions for controller serial #'s 104 and lower:

Press the MAN button 3 times, once for power-up, once for program mode, and the third time for calibrate mode (fast flash). Once in calibrate mode, move the GAIN setting to #1 and then jog the drawbar completely to the left position, then press both GAIN buttons at once. This will enter the position and will automatically move to #2. Next jog the drawbar to the center and again pressing both GAIN buttons at once will enter the position and move to #3. In mode #3, move the drawbar completely to the right and enter the position by again pressing both GAIN buttons at once. The drawbar should now be calibrated and ready for use. You can also refer to the ProTrakker Hydraulic Hitch Quick Reference Guide.

### Instructions for controller serial #'s 105 and higher:

Before beginning, controller needs to be off. While holding the up arrow, press the MAN button and then release both buttons. You should now be in calibrate mode (fast flash) Once in calibrate mode, move the GAIN setting to #1 and then jog the drawbar completely to the left position, then press both GAIN buttons at once. This will enter the position and will automatically move to #2. Next jog the drawbar to the center and again pressing both GAIN buttons at once will enter the position and move to #3. In mode #3, move the drawbar completely to the right and enter the position by again pressing both GAIN buttons at once. The drawbar should now be calibrated and ready for use. You can also refer to the ProTrakker Hydraulic Hitch Quick Reference Guide

## PROTRAKKER™ HYDRAULIC HITCH QUICK REFERENCE GUIDE

MODE		GAIN		JOG	
MODE	(GAIN)	DWN/UP	BOTH	LFT/RGT	BOTH
MANUAL (solid)	***	***	***	JOG	CEN
PROGRAM (slow flash)	1-Intensity	PAGE	RESTORE DEFAULTS	SETTING	CEN- >MAN
	2-Auto-Off				
	3-HystStop				
	4-HystStart				
	5-G1FsTlt				
	6-G9FsTlt				
	7-RdTltDly				
CALIBRATE (fast flash)	1-PosLft	PAGE	ENTER	JOG	CEN
	2-PosCen				
	3-PosRgt				
	4-TltLft				
	5-TltCen				
	6-TltRgt				
AUTO (solid)	9-Jan	GAIN	***	JOG->MAN	CEN- >MAN
SWEEP (slow flash)	9-Jan	GAIN	***	JOG->MAN	CEN- >MAN
FLOAT (fast flash)	9-Jan	GAIN	***	JOG->MAN	CEN- >MAN
SWEEP DELAYS (sec)		ERROR CODES			
1	0	6	120	1	Controller
2	5	7	180	2	Hub
3	10	8	240	3	Position
4	30	9	300	4	Valve
5	60			5	Tilt