



EQUIPMENT SALES | PARTS | MANUFACTURING

USER'S OPERATION MANUAL

CUSTOMER: _____

S/O#: _____

SERIAL #: _____

MODEL: **JM-FF-ED-DT**

CONTROLLER: **465 VFD JMGG 1_02.TXT**

ELECTRICAL (CONTROL): _____

ELECTRICAL (MOTOR): _____

AIR PSI: _____

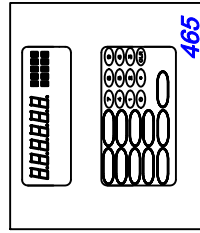
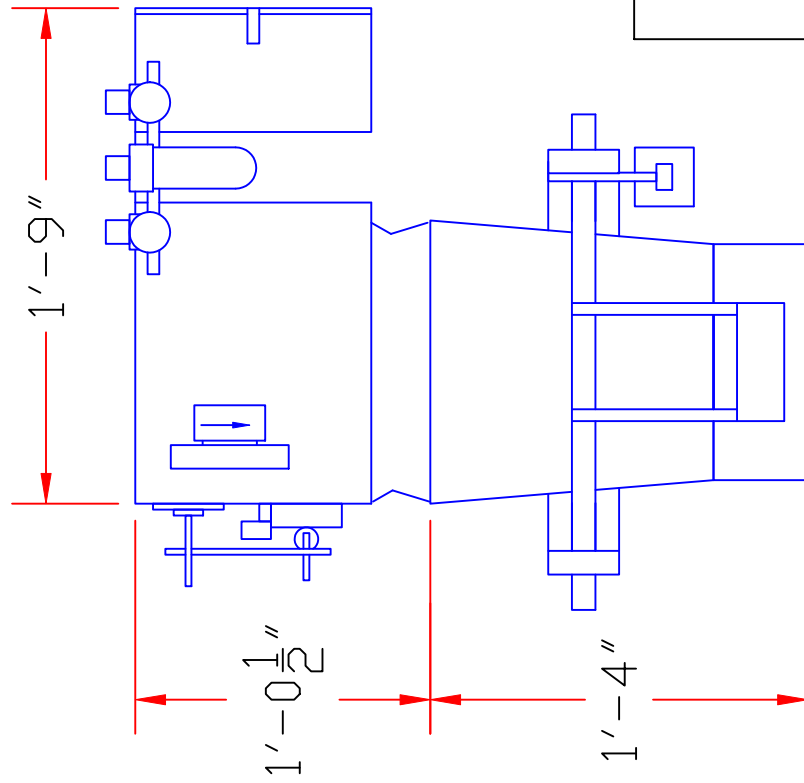
SPECIAL FEATURES:

JEM International Phone: 913-441-4788	6873 Martindale Fax: 913-441-1711	Shawnee, Kansas USA 66218-9354 email: info@jemscales.com
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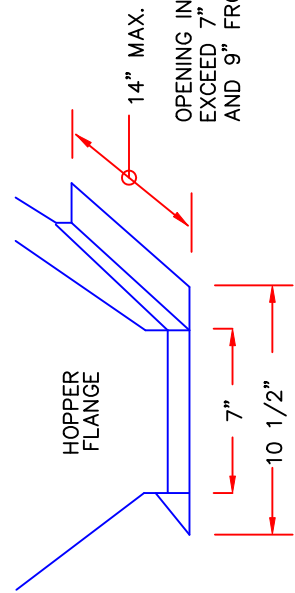
REV. A
REV. B
REV. C
REV. D
REV. E
REV. F
REV. G

JM-FF-ED
GROSS WEIGH BAGGING SCALE

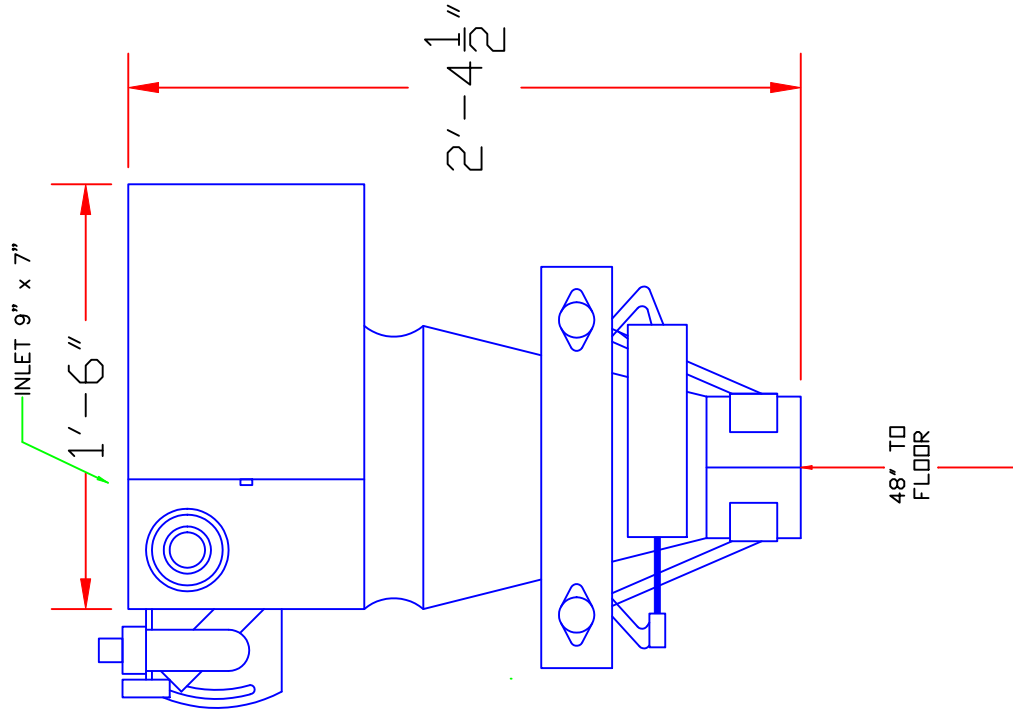
NAME	MATERIAL	SCALE	PART NUMBER
FOR	D.N.S.	D.N.S.	PART NUMBER
TOLERANCE	DRAWN BY	DATE	
SJM1939	J GOUDY	01-13-10	

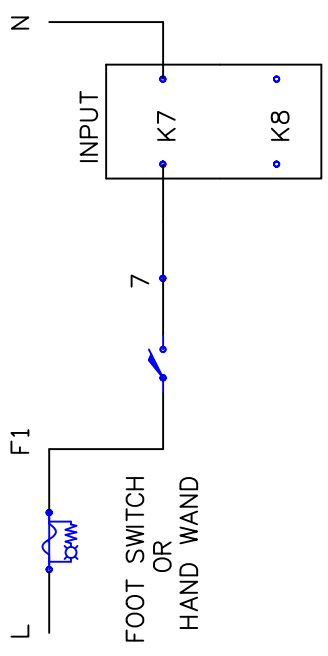
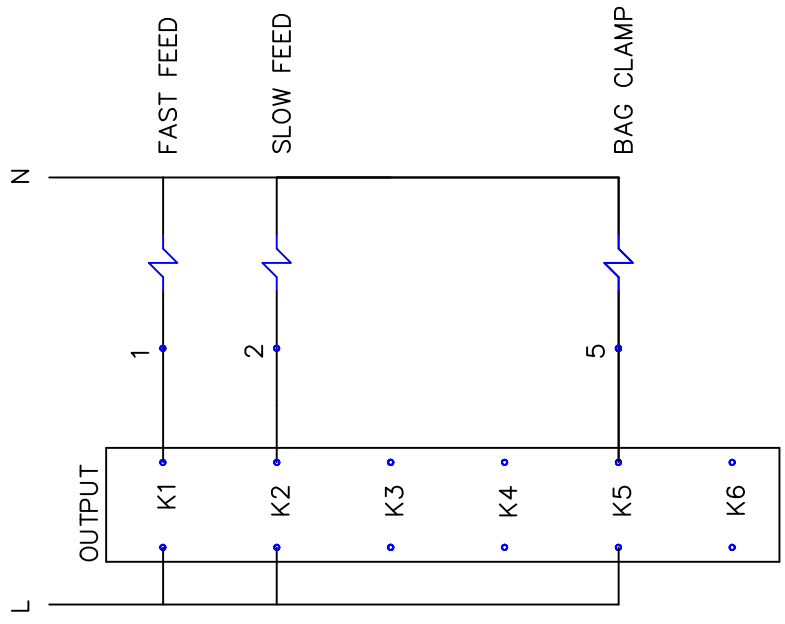


400 SERIES WEIGHT BASED
PROCESS CONTROLLER
(9-1/2" WIDE x 8-1/4" TALL)



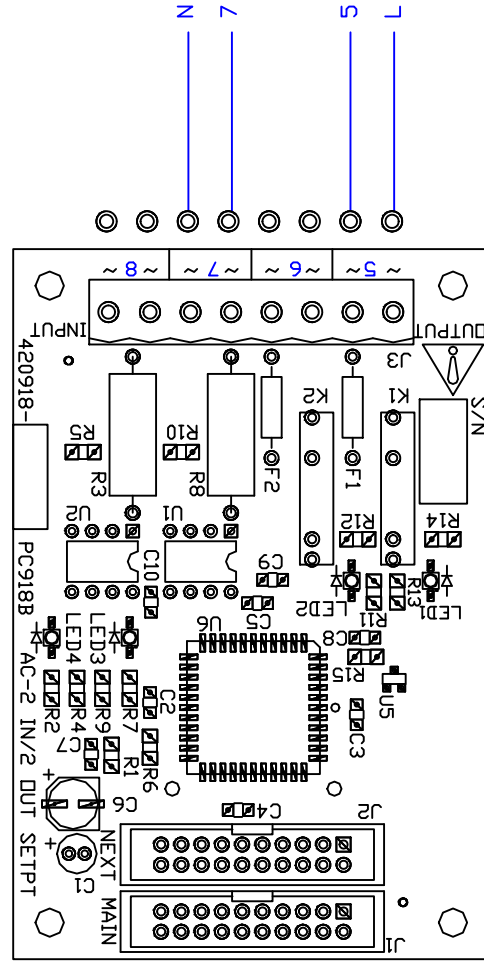
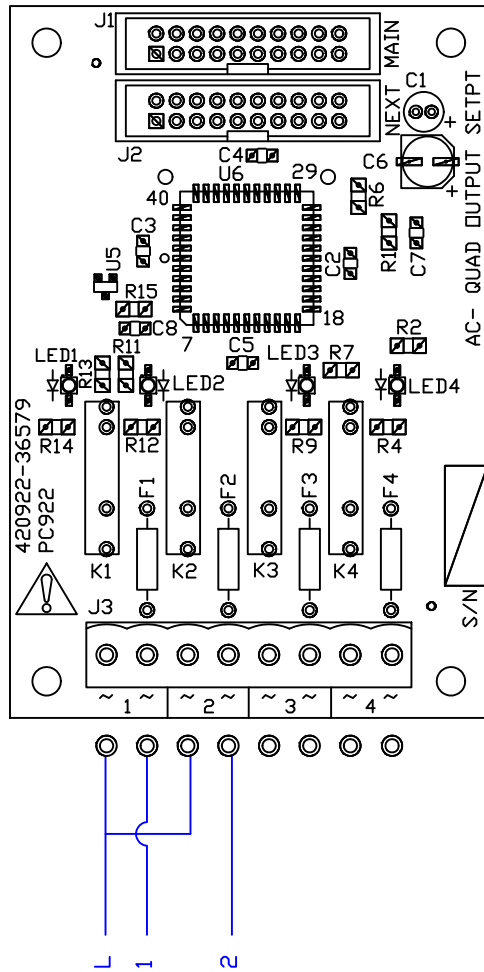
OPENING IN HOPPER MUST NOT
EXCEED 7" ACROSS THE FRONT
AND 9" FRONT TO REAR





REV. A	
REV. B	
REV. C	
REV. D	
REV. E	
REV. F	
REV. G	

NAME	GSE MODEL 600 PROCESSOR	
FOR	INPUT/OUTPUT CHART PAGE 1 OF 2	
TOLERANCE	MATERIAL	D.N.S.
DRAWING NUMBER	BY	DATE
EGSE202		12-12-12
	PART NUMBER	SERIAL NUMBER



REV. A
REV. B
REV. C
REV. D
REV. E
REV. F
REV. G

NAME GSE MODEL 600 PROCESSOR
FOR INPUT/OUTPUT CHART PAGE 2 OF 2
TOLERANCE MATERIAL PART NUMBER
D.N.S.
DRAWING NUMBER B
EGSE203
DATE 12-12-12
SERIAL NUMBER

OHMING OF LOAD CELLS

RESISTANCE IN 1K OHMS	LOAD CELL CAPACITY IN POUNDS				
	25#	50#	150#	250#	500#

RED	BLACK	.391	.376	.384	.401	.401
RED	GREEN	.284	.276	.280	.289	.288
RED	WHITE	.284	.276	.280	.289	.288
BLACK	GREEN	.284	.276	.280	.289	.288
BLACK	WHITE	.284	.276	.280	.289	.288
GREEN	WHITE	.351	.351	.351	.351	.351

NOTE: Readings need to be taken with the load cell disconnected from summing box and removed from its working location so that the load cell is free from any stress points. This must be done to provide proper readings.

1. Turn power off to controller
2. Disconnect load cells from the summing box.
3. Disconnect the weigh hopper from the load cells by removing the 3/8" cap bolt from the rod-heim joint
4. Have an air gap between the load cell and the rod-heim joint
5. Follow the OHM chart for given capacity of load cell you are checking
6. Set meter to read in 1K
7. All readings must be within 10% of chart
8. The .289 readings can be within the 10% but all four should be the same

JM-FF-ED DIGITAL GROSS WEIGH SCALE INSTRUCTION MANUAL

The JM-FF-ED scale is a gross weigh bagging scale meaning the product is weighed in the bag. The scale is designed to handle between 7-9 50 lb. bags per minute at plus or minus 3 oz. accuracy or better which is rated at 2 Sigma (95%).

The scale is shipped in separate components (scale housing, spout and programmable controller) and calibrated at the factory. The scale has been separated into three sections for protection during shipping. The three sections are the **scale housing, spout and programmable controller**. The first step is to hang the scale housing from the discharge bin. The inlet opening of the scale is 9" x 7" and the overall height is approximately 26 to 28.5" depending on the type spout. Generally speaking, the top of the scale should be somewhere in the area of 6' 2" from floor, thus making the bottom of the spout 4 ft. from the floor, which is ideal working height. However, if other restrictions such as longer bag sizes or height limitations apply, this 6' 2" dimension can be modified slightly. Once the scale housing is in place, the spout may be attached by using the two 1/4" cap screws. The air lines must be reattached. The programmable controller panel may be installed normally within the operators sight and reach. The programmable controller must be connected to the scale head by simply matching the control wire terminal on the scale head. Refer to the Input/Output chart of the programmable controller (this conduit and wire is not furnished as location of the control panel and other restriction vary on installation).

The load cell cable is then connected to the summing box located on the back of the scale housing. If the cable provided is short of length, you should contact our service department at 913-441-478: as you may require a change in this connection. A

power supply of 110V-1 phase is required and 100 P.S.I. air pressure at approximately 3 to 4 CFM at maximum speed.

The air is connected into our filter regulator system. We have two regulators. One regulator controls the air pressure to the spout system which is used for clamping the bag in place. This regulator is on the left hand side and is normally set between 50 and 80 lbs. depending on the exact amount of air required to hold your bag. Circumstances that affect this are the weight of the bag and the type of material used in the bag. The second regulator needs to be set at 40 PSI. This regulator controls the PSI to the flow gate.

For example, a 50 lb. bag would require more air pressure to hold than a 25 lb. bag. The right hand regulator controls the air to the internal radial arm gate of the scale. This has been factory set at approximately 40 lbs. and really should not need to be adjusted any further. It is extremely important that you understand the two regulators and their purposes. If the internal gate is turned up to 80 or 90 lbs. to match the air pressure on the bag clamps, this can cause damage to the housing of the scale.

The air system on the JM-FF-ED scale consists of a complete set of valves to provide the air pressure to the air cylinders. These valves are located directly underneath the control cabinet on the right hand side of the scale. The valves are base mounted so that they can be easily removed and cleaned if necessary without having to do rewire.

The air fittings used on the entire scale are swivel type quick disconnect so that the air lines can easily be removed. The valves have speed control adjusts on their sides. This is so you can adjust the speeds of all air cylinders throughout the scale. These have been set at the factory, however, if you would like the clamps to open faster or close slower, this is a very easy adjustment that can be made with a screwdriver.

In regard to the filter systems on the face of the JM-600 scale, this is for catching water in the air line and should be checked and drained periodically.

The JM-FF-ED scale is supplied with either a center grip spout, which is our standard. The operator places the bag on the spout. The spout is then automatically closed with either a wand hand switch or a foot pedal whichever was ordered. When the clamps start to close the start delay timer is engaged as well.

This timer (after timing out) sends impulse to open the internal gravity gate. The gate is held open through the filling cycle and closed after the final weight (less prelim) is reached.

Understanding flow characteristics of your individual product is extremely important. If you will note, the air cylinders can be adjusted so that you have more or less opening size for the slow filling stage of your product. Heavy products such as minerals will require a smaller opening and lighter products such as seed, oats, etc., will require larger openings.

Basically, a 50 lb. bag should have an overall fill time of between 4 and 6 seconds. The dribble mode or second filling should be no less than 1 second.

After you have the basic understanding of the scale functions, please proceed slowly in the following order:

1. Install scale on surge hopper, making sure it is level, if supplied.
2. Connect electric service required.
3. Provide air into the filter regulator systems.
4. Install spout on scale. Be careful not to stress load cells.
5. Be careful not to weld.
6. Connect all electrical and pneumatic lines by schematic.
7. Turn scale on using F1 or start key on the programmable controller.
8. Set controller per programmable controller instruction manual.
9. Place bag on spout and begin operating scale.

Since the JM series scale is controlled by the programmable controller, it is extremely important that the sequence of events as described is followed. For example, if the scale is overfilling a bag, simply touch the F3 or STOP key and everything will shut down.

The JM-FF-ED is truly a simple scale to understand and use and will provide many years of reliable service.

TROUBLE SHOOTING JM-FF-ED

CLAMPS WON'T CLOSE

1. Power on
2. Air pressure applied
3. Bag clamp valve energized
(Check light on valve)
Check wire connection on valve
and terminal
4. Air line restriction or blockage
5. Binding of air cylinder

CLAMPS CLOSE AND GATE WILL NOT OPEN

1. Gate valve energized
(2 valves on 2 speed)
Check wire connection on valve and
terminal
2. Air line restriction or blockage
3. Binding of air cylinder

CLAMPS CLOSE AND GATE WILL NOT OPEN, THEN RELEASE BAG

1. Check settings on programmable
controller

SCALE FILLS VERY SLOW

1. Check flow restrictor
2. Check cutoff valves
3. Check for restriction in chute area

BAG CLAMP SAFETY

Bag clamps (spouts)

The most ergonomically correct height for the spout is 48 inches (1.2 meters) to the floor. Exception to this rule is that the bag closing conveyor should not be lower than 12 inches (305 mm) to the floor. If the bag is taller than 36 to 37 inches (914 to 940 mm) then height will have to be adjusted upward to ensure a gap to allow the bag to fall and clear the spout.

Bags are placed on the spouts manually by operators. The clamps are operated by a foot pedal, hand wand switch or special order push buttons. Normally in plants where fertilizer, salt or other corrosive products are handled, foot pedals are not recommended. But foot pedals seem to be the most operator friendly device.

Hanging the bags safely is critical to a successful operation.

Bags manufactured of paper or laminated poly propylene have excellent rigidity and are the easiest to work with. Poly woven, cloth and low density poly ethylene bags have the least rigidity and are more difficult for the operator to hang.

Bags with rigidity are generally placed by the operator in the following manner.

1. Grab the bag with right hand approximately 12" (304 mm) from the top.
2. Slide the bag over the right end of the spout, allowing the shape of the spout to open the bag.
3. When bag is approximately 4" (101 mm) on the spout, activate the clamping assembly.
4. Operator's right hand will now be approximately 8" (203 mm) below the clamps.

On bags with less rigidity the operator's hand or hands will need to be closer to the top of bag. Subsequently, closer to the bag clamps and more care needs to be taken by the operator.

On cloth and low density poly propylene bags two hands may be required to hang the bag. The operator needs to make sure his/her hands are clear of the spout assembly before activating the clamp switch/foot pedal.

The bag clamps not only support bags during the filling but also some models (GBAO, JMDT and CMDT) are designed to control dust. To control dust the spout assembly and brackets that hold the bag must be of very close tolerance.

Close tolerance also means pinch point. All dust tight spouts are designed with spring loaded brackets that hold the belting material. This minimizes the risk to the operator's hand but the dust tight design is more cumbersome to most operators than the center grip or clam shell spout.

Clam shell spouts (JM600 or JMCS) are designed for bags with a minimum 28" (711 mm) circumference. This fits the industry standard rule that spout circumferences need to be at

least 5” (127 mm) smaller than the circumference of the smallest bag being used. If the circumference of the spout and the circumference of the bag are 5” (127 mm) or less it is cumbersome for the operator to place the bag on the spout assembly.

The dust tight spouts (DT) and center grip spouts (CG) are available in a variety of sizes so these are basically customized to the bags being used in normal operations. The normal shape is pecan or US football shaped. This helps in opening the bag during placement and does not misshape the bag during the filling operation. It is important that the bag not be misshaped to ensure an easier motion of the operator to close the bag after it has been filled and discharged.

Not all spouts are identical in size or shape. Some products pass through round spouts more easily. Round spouts, however are generally harder for operators to use than pecan shaped spouts.

A separate air regulator is provided for all bag clamps. Each pneumatic system valve cylinder includes speed control. The amount of air pressure required is trial and error. The amount of air used should only be enough to firmly hold the heaviest bag without any slippage. The speed controls are factory set and clearly marked “do not adjust” in three languages; English, Spanish and French. Do not adjust the speed controls.

On GB model scales (GBAO) operators can operate the bag clamp without the possibility of the product passing through. On JM gross weigh scales, CM-780 net weigh scales and 5GV net weigh scales a “hold/run” switch is provided. In run mode the operation of the clamp will activate the product flow. In hold the clamps can be operated without activating product flow. Operators who want to test their skill on spouts using the JM, CM-780 or GV models must put the scale in “hold” first or risk discharging product unwanted. By placing the scales in “hold” will eliminate the possibility of spillage.

If a finger would get caught in the spout assembly, don’t panic. We are not aware of any broken bones in 30+ years of manufacturing these products.

Most damage is done by pulling out. The clamps require 50 to 80 lbs of air pressure normally to hold a standard 50 lb bag. Operators normally cannot pull out of this clamp assembly with said pressure. By pulling out the skin can be torn or a fingernail can be lost, depending on the position of the hand when clamped. Generally it is far better for the operator not to panic and wait for the release of air pressure.

If the scale has an automatic release, bag clamps will automatically open in a few seconds, releasing the operator. For quicker release please refer to the following.

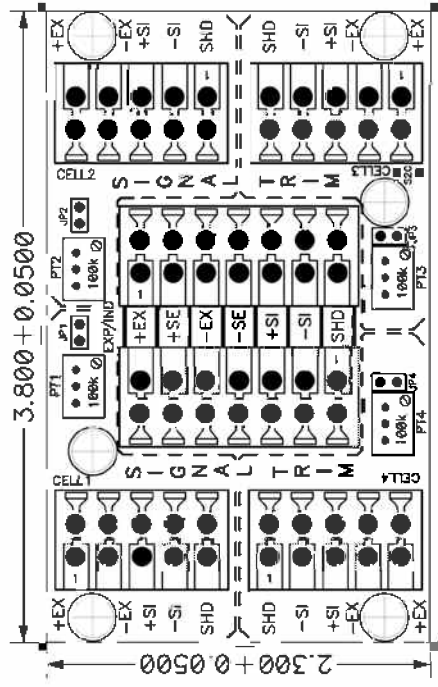
GB scales: depress foot pedal and hold foot pedal. The clamps will automatically open.

JM and CM digital scales: F1 key turns the bag clamps off. The clamps will automatically open.

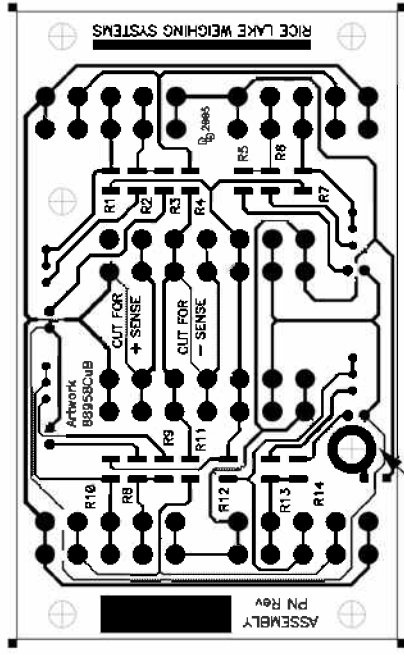
JM non digital models: turn on/off push button to “off” position.

On any model scale, “quick disconnect” air has been supplied. Disconnect air and all pressure will be released.

REV.	REVISIONS	DATE
A	PROTOTYPE for test and evaluation	DLD 3/17/95
B	Change SIP resistor packages to discrete bottom mount surface mount ENGINEERING RELEASE	DLD 7/28/95



TOP VIEW



BOTTOM VIEW

FABRICATION NOTES:

1. BASE MATERIAL SHALL BE LAMINATED EPOXY TYPE G10 OR FR4 0.062 +/- .005 THICK.
2. CONDUCTOR MATERIAL ON BOARD (PLATED THRU) SHALL BE 1 OZ. COPPER MINIMUM.
3. THE TIN LEAD ALLOY PLATING SHALL CONTAIN 40% +/- 5% LEAD AND 60% +/- 5% TIN. ALL SOLDER-PLATED AREAS SHALL BE SUBJECT TO INFRARED OR HOT OIL SOLDER REFLOW PROCESS.
4. MINIMUM PLATING THICKNESS ON TRACE SURFACE AND THROUGH HOLES TO BE .0015 +/- .0005 TIN-LEAD.
5. CONDUCTOR DEFECTS:
 - A. PIN HOLES, NICKS, AND SCRATCHES: CONDUCTOR DEFECTS SUCH AS PIN HOLES AND NICKS WHICH DO NOT REDUCE THE CONDUCTOR WIDTH BY MORE THAN +/- .002.
 - B. PLATING OVERHANG: THE PLATED RESIST MATERIAL OVERHANG REMAINING AFTER THE COPPER FOIL HAS BEEN REMOVED BY ETCHING SHALL NOT EXCEED .005.
 - C. UNDERCUT: THE REDUCTION OF CONDUCTOR CAUSED BY ETCHING UNDER THE EDGE OF PLATING RESIST SHALL NOT EXCEED .001.
 - D. EXCESS CONDUCTOR MATERIAL: ISOLATED SPOTS OF CONDUCTOR MATERIAL NO MORE THAN .010 IN DIAMETER ARE ACCEPTABLE PROVIDING SPACING REQUIREMENTS ARE NOT VIOLATED.
6. WARPAGE: WARPAGE OR TWIST OF PRINTED CIRCUIT BOARD SHALL NOT EXCEED .010 INCH PER INCH.
7. SOLDERABILITY: THE SOLDER COATING SHALL BE ADHERENT AND NON-GRANULAR IN APPEARANCE. THE BASE MATERIAL SHALL NOT SHOW EVIDENCE OF BUSTERING OR DELAMINATION, NOR SHALL CONDUCTORS OR TERMINAL AREAS SHOW EVIDENCE OF SEPARATING FROM THE BASE LAMINATE AFTER DIP SOLDERING.
8. SOLDER MASK: SHALL BE GREEN IN COLOR AND APPLIED TO THE BOTTOM SIDE OF THE BOARD ONLY.
9. A WHITE SILKSCREEN SHALL BE APPLIED TO TOP SIDE OF BOARD TO PROVIDE FOR A LEGEND.
10. ARTWORK SUPPLIED BY RLWS ENGINEERING DEPARTMENT.
11. REFER TO PCB ACCEPTABILITY STANDARDS DOCUMENT: ANSI/JPC-A-600D, CLASS 2. WORKMANSHIP PER ANSI/JPC-A-610A CLASS 2
12. LAYER STRUCTURE: BOTTOM SIGNAL LAYER ONLY
13. HOLE SIZES ARE AFTER PLATING WHERE APPLICABLE

ASSEMBLY NOTES:

1. APPLY CONFORMAL COATING PER MANUFACTURER'S INSTRUCTIONS TO BOTTOM SIDE OF BOARD ONLY. MINIMUM ACCEPTABLE THICKNESS IS .0005". PROTECT GROUNDING PAD AROUND MOUNT HOLE FROM COATING.
2. PLACE LABEL IN ASSEMBLY PN Rev FIELD TO INDICATE 88958-B
3. ADD INSTALLATION MANUAL RLWS PN 91989 WHEN PACKAGING FINISHED ASSEMBLY

THIS IS A FACTORY MUTUAL APPROVED DOCUMENT. ALL CHANGES OR REVISIONS MUST BE AUTHORIZED BY FACTORY MUTUAL RESEARCH CORPORATION AND RICE LAKE WEIGHING SYSTEMS

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RICE LAKE WEIGHING SYSTEMS
 239 West Coleman Street, Rice Lake WI 54808
 Phone: 715-234-9171 FAX: 715-234-6987
 Internet: WWW.RLWS.COM

TOLERANCES UNLESS OTHERWISE SPECIFIED	
Tolerance	Decimal
2 Place	N/A
3 Place	N/A

Drawn DLD	Checked DLD	Date 09/14/95	Part No. 88958
Approved: DLD	Approved: DLD	Sheet 2 of 2	Revision B

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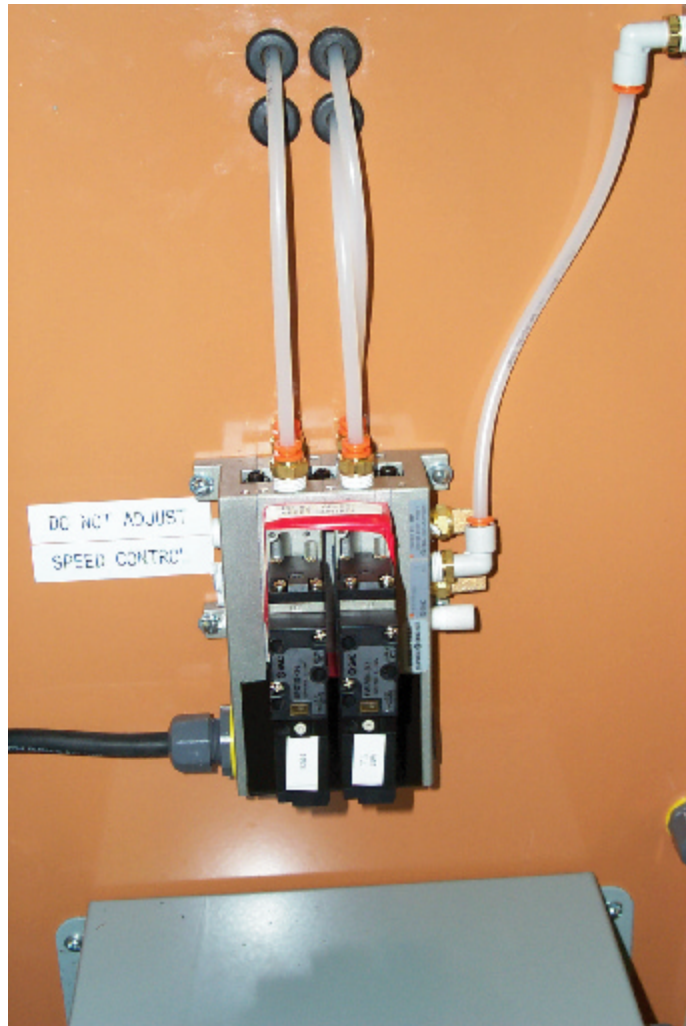
ASSEMBLY DRAWING, 4-CHANNEL SIGNAL TRIM LOAD CELL JUNCTION BOX JB4SS/SP

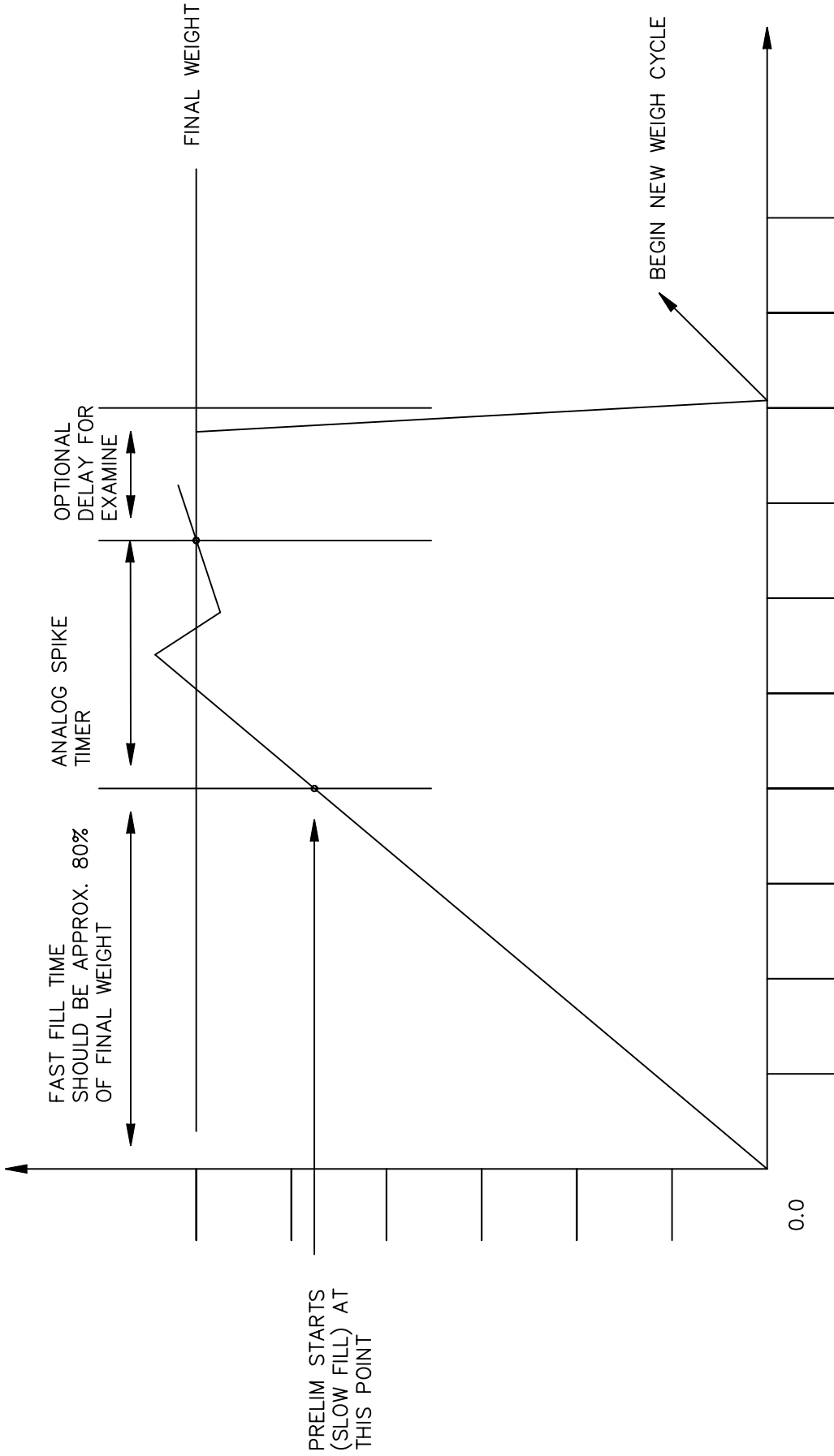
FLOW CONTROLS

Flow controls are factory set.

DO NOT ADJUST

Faster speeds will cause damage to the equipment and will not increase bagging speeds. Do not remove factory tape.





NOTES -

1. SET FINAL TARGET WEIGH. SET PRELIM. SAME AS FINAL WEIGHT. SET FREE FALL AT 0.00 .
2. RUN ONE WEIGHMENT, CHECK SPEED OF SLOW FILL, WEIGHT SHOULD INCREASE NOT MORE THAN 5 lbs/sec. ADJUST SLOW SPEED TO THIS.
3. AFTER SCALE HAS GONE WEIGHT COMPLETE RECORD WEIGHT AND ENTER THE OVERAGE INTO THE FREE FALL.
4. THEN BEGIN RUNNING SCALE AND DECREASING PRELIM UNTIL YOU DO NOT GET THE SAME ACCURATE READING.
5. ADJUST DISCHARGE TIME SO THAT LIGHTEST DENSITY PRODUCT JUST ESCAPES HOPPER BEFORE DOORS CLOSE. APPLYS ONLY TO NET WEIGH BAGGERS NOT TO THE JM SERIES SCALES.

REV. 1	NAME	FOR PROGRAMMABLE CONTROLLER
REV. 2		
REV. 3		
REV. 4	FDR	
REV. 5		
REV. 6	TOLERANCE	
REV. 7	DRAWING NUMBER	
		PART NUMBER
		BER
		XP042A

465

Programmable Controller

Instruction Manual

VERSION 1-21

JMGG



EQUIPMENT SALES | PARTS | MANUFACTURING

6873 Martindale Road
Shawnee, Kansas 66218-9354
U.S.A.

Phone: (913) 441-478:
Fax: (913) 441-1711
e-mail: info@lgo.uecrgu.com

GSE Units Change for 465

Key in 100 SELECT 23640 ID ENTER. This puts the controller in the access mode. The upper display should read P108.01 Scale 1 At anytime you feel that a mistake has been made, power down the controller and start over from the beginning of this process.

To Change From Pounds To Kilograms Use These Steps

Key in 111 SELECT and the upper display should read P111.11 1div 1 .05

Key in 10 ENTER the upper display should read P111.10 1div 1 .02

Key in 131 SELECT and the upper display should read P131.00 Unit 1 lb

Key in 1 ENTER the upper display should read P131.01 Unit 1 kg

Key in 150 SELECT and the upper display should read P150.00 UNITS =lb

Key in 1 ENTER the upper display should read P150.01 UNITS =kg

To Change From Kilograms To Pounds Use These Steps

Key in 111 SELECT and the upper display should read P111.10 1div 1 .02

Key in 11 ENTER the upper display should read P111.11 1div 1 .05

Key in 131 SELECT and the upper display should read P131.01 Unit 1 kg

Key in 0 ENTER the upper display should read P131.00 Unit 1 lb

Key in 150 SELECT and the upper display should read P150.01 UNITS =kg

Key in 0 ENTER the upper display should read P150.00 UNITS =lb

When the correct changes are made you need to exit the access mode and this is done by pressing the Zero key. The controller will prompt you with a text message on the upper display, The CLR key = NO and the ENTER key = YES.

If the display reads Code 39 check A/D Cal press CLR key

If the display reads Setup ENTER = CAL press CLR key

If the display reads Setup ENTER = SAVE press the ENTER key

If the display reads Setup ENTER = EXIT press the ENTER key

CALIBRATION PROCEDURE

To put the controller in the calibration mode, you must key-in **100 SELECT 54321 ID ENTER**
(Follow the prompts on the upper display, remembering ENTER=yes / CLR= no)

New Zero? : Tells the controller what will be established as a ZERO point. **PRESS ENTER**

Units = : Using the **UNITS** key, toggle through the available units until the correct one is selected.

Key in Calibration Weight : hang calibration mass from the spout and **key in the exact weight** of the mass including any other objects used to support or suspend mass from the filling tube. **PRESS ENTER**

Calibration OK? : If upper display is equal to the amount keyed in **PRESS ENTER.**

If upper display is not equal to the amount keyed in press CLR and start at (New Zero ?)

If the display reads Code 39 check A/D Cal press CLR key

If the display reads Setup ENTER = CAL press CLR key

If the display reads Setup ENTER = SAVE press the ENTER key

If the display reads Setup ENTER = EXIT press the ENTER key

Keypad Operation

KEY FUNCTIONS

F1: Toggles the scale ON/OFF (Turning the scale to the OFF position will also reset the Bag Counter)

TARGET: Displays Target Weight for approximately one second (View only)

SELECT: Toggles through the set up parameters where a number of changes can be made that will effect how the scale will operate.

SCALE SELECT: When viewing or changing a set up parameter, the **SCALE SELECT** key will return the controller back to the main display.

ZERO: Zeros out the weight display.

UNITS: Toggles through the available weighing units.

ENTER/yes: When a change is made to a setup parameter, the new value must be entered.
(Also doubles as a YES command)

CLR/no: When an unwanted value is keyed in, it can be cleared before pressing the ENTER key.
(Also doubles as a NO command)

PRINT: Toggle print feature On or Off. When turned On, controller will transmit the current bag count and weight right before the bag clamp opens. Set the Clamp Delay parameter to a long enough delay so weight is stable before clamp releases.

NOTE: Controller must be in the Off position to toggle print On and Off.

TARE: Not used.

ID: Not used.

SETUP PARAMETERS

FINAL TARGET: Desired final weight of product.
FACTORY SETTING 50.00 POUNDS

SLOW FILL: Determines how much of the **FINAL TARGET** weight will be slow fill.
FACTORY SETTING 25.00 POUNDS

FREE-FALL: The value deducted from the **FINAL TARGET** weight to allow for product in suspension.
FACTORY SETTING 0.50 POUNDS

FILL DELAY: The time delay from when the clamp starts to close to the beginning of the filling cycle.
FACTORY SETTING 1.0 SECONDS

CLAMP DELAY: The time delay after **WEIGHT COMPLETE**, until the bag is released from the clamp.
FACTORY SETTING 1.0 SECONDS

SPIKE DELAY: The time delay from the beginning of fast fill and the beginning of slow fill that the weight will not be read by the indicator to allow for weight spikes. FACTORY SETTING 1.1 SECONDS

COMMUNICATION CABLE CONNECTIONS FOR PRINT OUTPUT

P.C. (9 PIN CONNECTOR)

465 PROCESS CONTROLLER (COM 2)

PIN# 5.....GND
PIN# 3.....RX2
PIN# 2.....TX2

BAUD RATE - 19200
DAT BITS - 8
PARITY - NONE
STOP BITS - 1
FLOW - Xon

GSE Regenerate Program for C Base

Shut the power off to the controller, and then power-up the controller while holding the CLR key until Macro Disbl appears. When Disbl Comm1 appears press ENTER. Then key in 100 SELECT 23640 ID ENTER. This puts the controller in the access mode. The upper display should read P108.01 Scale 1 and the lower display should be blank. At anytime you feel that a mistake has been made, power down the controller and start over from the beginning of this process.

Key in 65002 SELECT and the upper display should read P65002. Deflt -Cal

Press the TARE key two times and the upper display should read P65002. UserC Gen

Press the ENTER key three times and the controller will start loading the program.

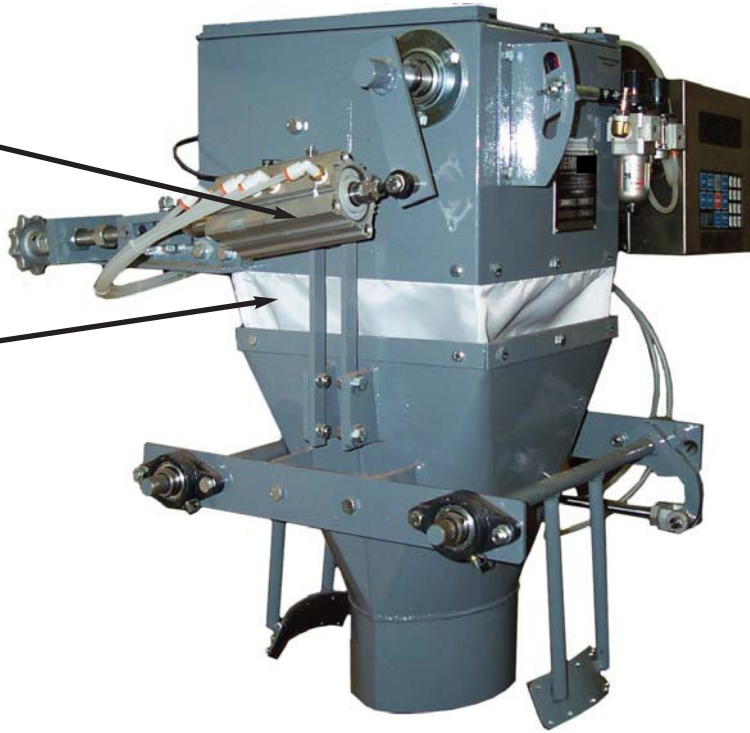
When the display shows the Main Menu screen the controller is done loading the program.

***This will set the controllers set-up parameters back to factory defaults, so it is advisable to write down all of the controllers set-up parameter values before performing this procedure.

JM-FF-ED Gross Weigh Bagging Scale

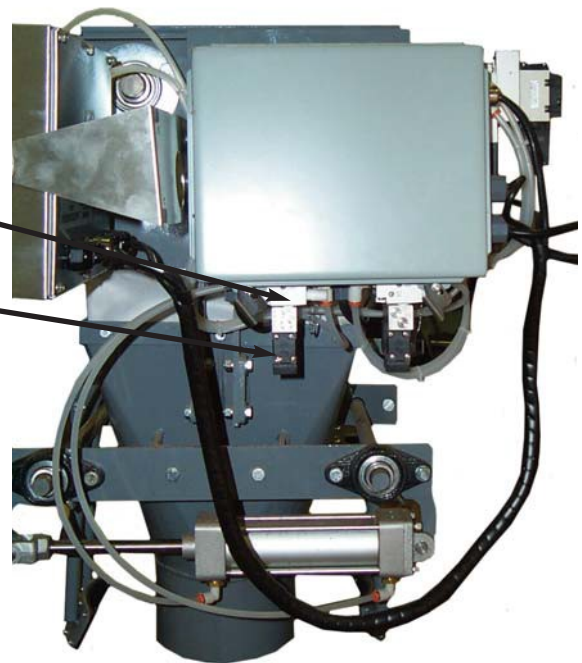
Cylinder 2 speed
83NQ250GDF0145 MS
83US19149 SS
Kit
83CQ2B50-PS

Dust skirt
7791780000



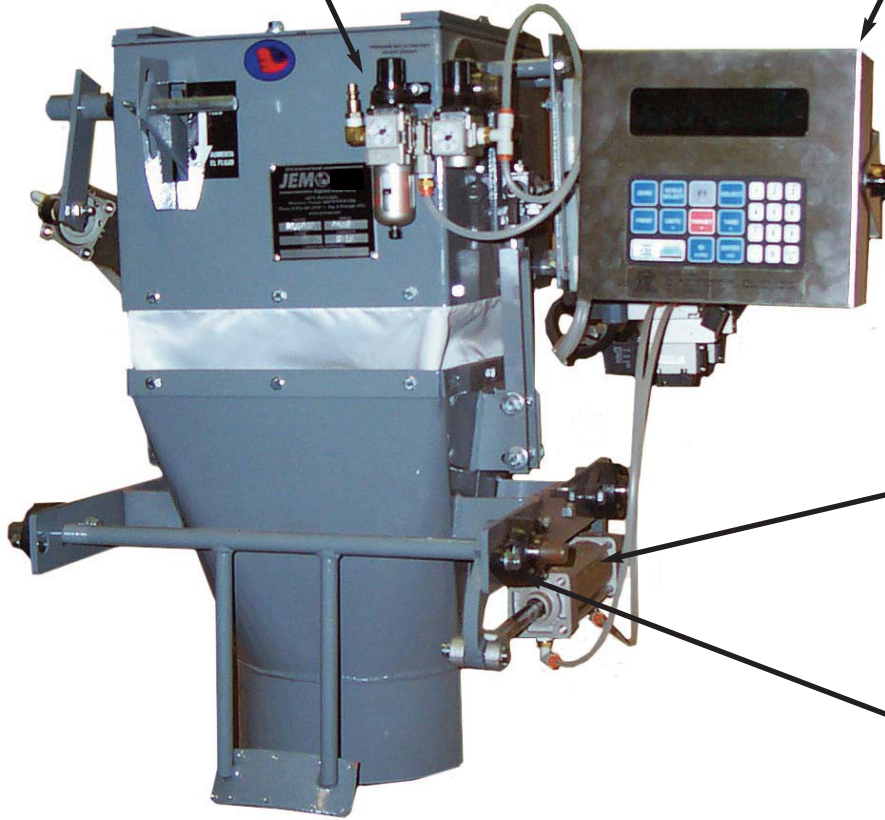
Valve assembly
3770870000

Valve solenoid
3770870001



Filter regulator assembly
3770330046

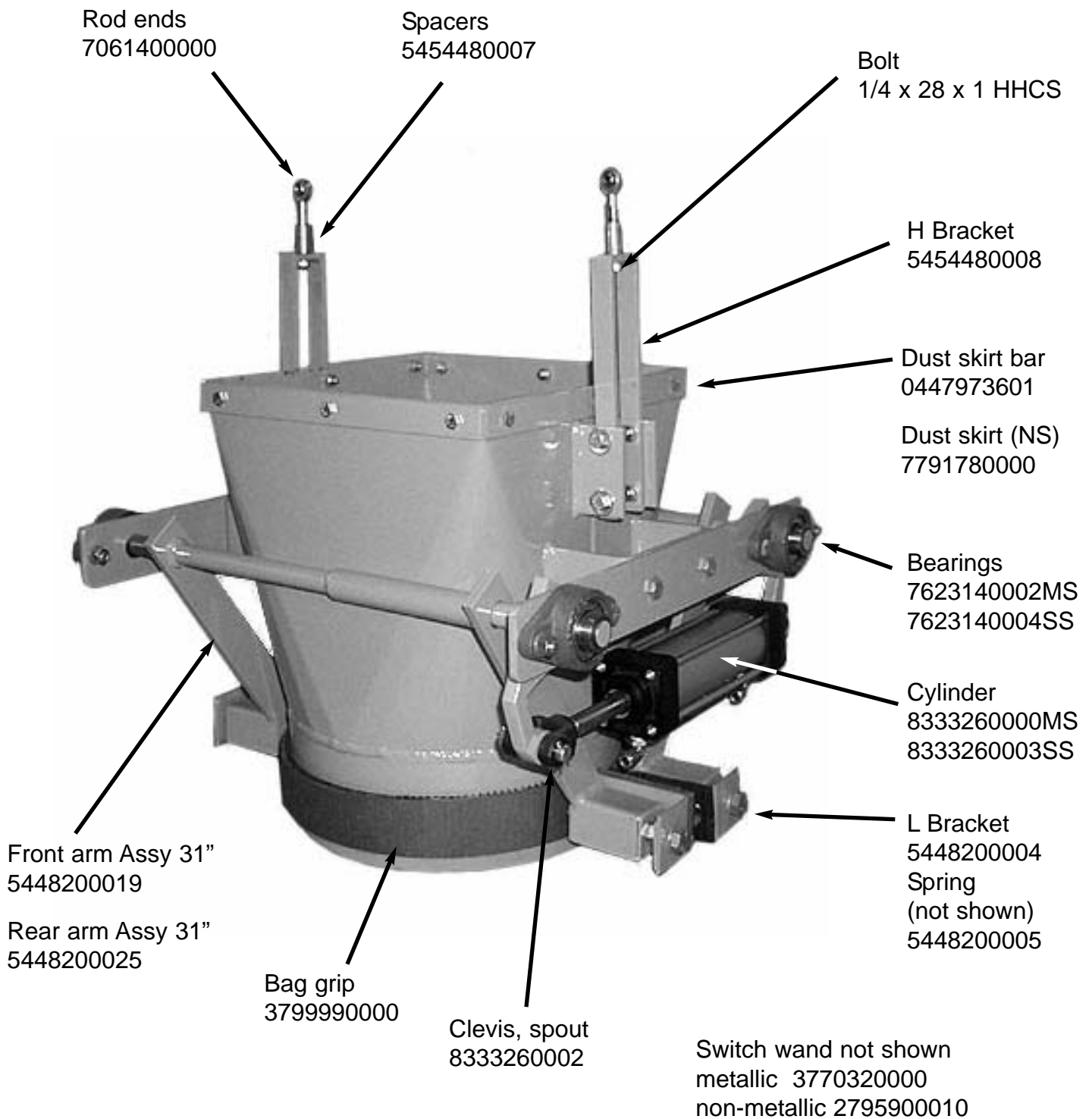
465 Controller



Cylinder Bag clamp
8333260000 MS
8333260003 SS
Kit
83NC1A200-PS

Bearing
7623140002

AO by Circumference DUST TIGHT SPOUT



JEM INTERNATIONAL, INC.
PHONE: 913-441-4788 FAX: 913-441-1711

JM-FF-ED GROSS WEIGH BAGGING SCALE				
	PART #	DESCRIPTION	CODE	
	0176431	Enclosure 6 x 4 x 5 Fiberglass		
	1425194	Muffler 1/8 NPT		
	0015480000	Beam clevis		
	0024257909	Seal chute GB white	R	1
	0024257910	Chute seal	R	1
	0024257911	Chute seal plate MS		
	0034053626	Spacer lower short		
	0379823601	Slide bar MS		
	0379833601	Slide bar spacer MS		
	0379943601	Gate stop bar MS		
	0397083501	Shipping clip MS		
	0418176601	Regulator Slide handle MS		
	0418183501	Regulating slide plate MS		
	0423943603	Sway Link MS		
	0423955501	Sway Bracket MS		
	0447973601	Dust skirt bar MS		
	0467603501	Restrictor plate MS		
	2795900010	Switch wand non-metallic		
	3600500000	Rod, gate adjust MS		
	3700510000	Foot switch		
	3770190002	bracket AC 2 dig JM MS		

3770330040	Filter Regulator		
3770330041	Regulator		
3770340000	Control box MS		
3770340005	Plate control box JM MS		
3770700000	Housing MS		
3770710000	Feed gate handle MS		
3770800000	Weight rod MS		
3770840000	Prox switch bracket complete MS		
3770840001	Proximity bracket		
3770870001	Valve replacement	R	1
3900140000	Rear clevis (2 speed only) MS		
4425120000	Special washer		
4425150000	Wingnut		
5418150001	Top chute MS		
5418220001	Regulating slide MS		
5423910001	Chute gate MS		
5454480002	"H" bracket MS		
7052250000	Feed gate bearing		
7061150000	Rod end bearing (2 speed)		
7061400000	Rod end 1/4 RH		
7623140002	Spout bearing MS		
7675400003	Flow decal		
7791780000	Dust skirt fabric 5.5 x 50 cir.	R	1
7800510000	Proximity switch		
7800550250	Load Cell #250, standard series		
7800550604	Summing box		
7800650001	Knob		
8282509999	Vent dust port		
8333260000	Spout cylinder MS		

	8333260002	Clevis spout		
	9250400000	Weight box cover		
	9300000001	Scale box JM 36 x 30 x 36		
	83CQ2B50-PS	Seal kit 2 speed gate cylinder MS or SS	R	2
	83NC1A200-PS	Seal kit, spout MS cylinder	R	1
	83NQ250GDF0145	Gate cylinder (2 speed) MS	R	1
	PART #	D E S C R I P T I O N	CODE	Simplex
		465 GSE Controller		
	24660B-122AO	I/O module 2 input/2 output	R	1
	24660B-130AO	I/O module 4 position SBM. AC	R	1

R=RECOMMENDED SPARE PARTS

When ordering parts be sure to advise scale construction (ex. Mild steel, stainless) and serial number

Some part pictures may differ from your scale as we do update parts occasionally