

Roll On Axle Weighing JagBASIC Application

Installation and
Operation Guide

Installation:

- The JagBASIC program file “file1.bas” must be loaded into the Jaguar. In Setup, Configure JagBASIC, set Autostart to Yes.
- To terminate the program, in order to enter setup or perform other normal Jaguar operations, do the following while "PULL ONTO SCALE" is displayed on the lower Jaguar display. Press the ESCAPE key. “Setup” will be displayed on the lower Jaguar display. Press the Select key (or F7 on the QWERTY keyboard until “Exit” is displayed, and then press ENTER. “Passwd?” will be displayed on the lower Jaguar display. Type the password and press ENTER. (The original password is null. At the “Passwd?” prompt, just press ENTER.) (If the password is incorrect, "INVALID PASSWORD" will be displayed briefly, and then the program will return to "PULL ONTO SCALE".) "NewPwd? " and the current password will be displayed. Press ENTER to keep the current password. The program will terminate, returning the keypad to normal Jaguar control.
- Connect scale as Scale A, configure and calibrate as required. Select desired weighing units. This JagBASIC program may be run using any of the main or alternate weight units (lb, kg, g, metric ton). Where the operation description below refers to a comparison of the current weight to 1000 pounds, the comparison will actually be done against the current unit’s equivalent of 1000 pounds.
- In Setup, Application Environment, Zero Operation, set the Pushbutton Zero parameters as desired. This determines how the zero scale process in Operation Step 2b will behave.
- Connect I/O according to the following:
OUT1 Entrance Green (off for Entrance Red)
OUT2 Exit Green (off for Exit Red)
- Connect ticket printer to desired Com port and configure port in Setup, Configure Serial, Configure Port, Port Parameters. In Setup, Configure Serial, Configure Port, Add Connection, make a connection to Custom Print 1 and 2. Custom Print 1 will be the general weight ticket and the first weight ticket of an inbound/outbound transaction. Custom Print 2 is only used for the second weight ticket of an inbound/outbound transaction (the gross-tare-net ticket). Any of the templates can be associated with either custom print, and the same templates may be used for both.
- Note that the setup of the Jaguar for motion detection and filtering are both very critical to the operation of the roll-on software. The JagBASIC application uses the motion bit to determine when the truck is completely on the scale. If you have motion set so that it is not sensitive enough, the JagBASIC application may terminate weighing too soon (before the truck is completely on the scale or has come to a complete stop). If the filtering is too heavy, the application may not see any axles, or may fail to see all of the axles. It is not unusual for the application to fail to see the break between wheels on a tandem. If you need to weigh each axle of a tandem, the filtering will have to be very light, and the truck will have to drive very slowly onto the scale.

- In Setup, Configure Serial, Configure Template, create templates 1 & 2 for the tickets to be printed.
- Use the following shared data variables to include transaction information in the template:

	Shared Data Variable	Length	Format
Axle 1 Weight	Var01	6	Right justified
Axle 2 Weight *	Var02	6	Right justified
Axle 3 Weight *	Var03	6	Right justified
Axle 4 Weight *	Var04	6	Right justified
Axle 5 Weight *	Var05	6	Right justified
Axle 6 Weight *	Var06	6	Right justified
Axle 7 Weight *	Var07	6	Right justified
Axle 8 Weight *	Var08	6	Right justified
Axle 9 Weight *	Var09	6	Right justified
Axle 10 Weight *	Var10	6	Right justified
Axle 11 Weight *	Var11	6	Right justified
Gross Weight	Var12	6	Right justified
Date	Var13	**	**
Time	Var14	**	**
Weight Units	Var15	2	"kg" or "lb"
Ticket Number	Var16	6	Left justified
ID	Var17	16	Left justified
Tare Weight *	Var18	6	Right justified
Net Weight *	Var19	6	Right justified
"Axle 1: " text	Pmt01	9	"Axle 1: "
"Axle 2: " text *	Pmt02	9	"Axle 2: "
"Axle 3: " text *	Pmt03	9	"Axle 3: "
"Axle 4: " text *	Pmt04	9	"Axle 4: "
"Axle 5: " text *	Pmt05	9	"Axle 5: "
"Axle 6: " text *	Pmt06	9	"Axle 6: "
"Axle 7: " text *	Pmt07	9	"Axle 7: "
"Axle 8: " text *	Pmt08	9	"Axle 8: "
"Axle 9: " text *	Pmt09	9	"Axle 9: "
"Axle 10: " text *	Pmt10	9	"Axle 10: "
"Axle 11: " text *	Pmt11	9	"Axle 11: "
"Gross: " text	Pmt12	9	"Gross: "
"Tare: " text *	Pmt13	9	"Tare: "
"Net: " text *	Pmt14	9	"Net: "

- * These values will be empty (length=0) if there was no weight recorded for the axle.
- ** Format is configured in Setup, Application Environment, Time and Date.

- Following is a sample print and template listing of a possible Template 1.
 - Sample print:

10/26/98
16:16

Gross: 45140 lb

Axle 1: 10390
Axle 2: 15480
Axle 3: 5130
Axle 4: 4220
Axle 5: 9920

Note:

The blank lines after Axle 5 are where Axle 6 through Axle 11's information would have been printed. Since this truck had only 5 axles, the remaining fields are blank.

- Template listing:

Template: Roll On
Location: /ptp01

1	A	CR/LF	002	29	/	/pmt07
2	/		/var13	30	/	/var07
3	A	CR/LF	001	31	A	CR/LF 001
4	/		/var14	32	/	/pmt08
5	A	CR/LF	002	33	/	/var08
6	/		/pmt12	34	A	CR/LF 001
7	/		/var12	35	/	/pmt09
8	A	' '	001	36	/	/var09
9	/		/var15	37	A	CR/LF 001
10	A	CR/LF	002	38	/	/pmt10
11	/		/pmt01	39	/	/var10
12	/		/var01	40	A	CR/LF 001
13	A	CR/LF	001	41	/	/pmt11
14	/		/pmt02	42	/	/var11
15	/		/var02	43	A	CR/LF 002
16	A	CR/LF	001			---End Template Data---
17	/		/pmt03			
18	/		/var03			
19	A	CR/LF	001			
20	/		/pmt04			
21	/		/var04			
22	A	CR/LF	001			
23	/		/pmt05			
24	/		/var05			
25	A	CR/LF	001			
26	/		/pmt06			
27	/		/var06			
28	A	CR/LF	001			

Operation:

0. "JB-027 Vx.xx" will be briefly displayed on the lower Jaguar display.
1. If the gross weight on the scale is over 1000 pounds, "EXIT SCALE" will be displayed, the entrance traffic light will be red, and the exit traffic light will be green.
When the gross weight drops below 1000 pounds, the program will advance to Step 2.
2. "PULL ONTO SCALE" will be displayed on the lower Jaguar display.
The entrance and exit traffic lights will be green.
 - a) If the gross weight exceeds 1000 pounds, the program will advance to Step 3.
 - b) If the ZERO key is pressed, a pushbutton zero operation will be performed.
If the program is unable to zero the scale, "Out of ZeroRange" will be displayed briefly.
The program will return to Step 2.
 - c) If the ESCAPE key is pressed, "Setup" will be displayed on the lower Jaguar display.
Press the SELECT key to toggle between "Setup" and "Delete_In_Proces" and "Exit".
Press the ENTER key to accept the current selection.
 - i) If "Setup" is selected, the program will advance to step 50.
 - ii) If "Delete_In_Proces" is selected, the program will advance to step 60.
 - iii) If "Exit" is selected, the prompt "End Program? N" will be displayed. Press ENTER to return to the beginning of step 2, or press the SELECT key to change the prompt to "End Program? Y", then press the ENTER key.
Type the password and press ENTER.
(The original password is null. At the "Passwd?" prompt, just press ENTER.)
 - a) If the password is correct, "New Pwd?" and the current password will be displayed. Press ENTER to keep the current password, or enter a new password (maximum of 8 characters).
If a new password was entered, "Retype:" will be displayed, and the new password must be retyped.
If the new password is retyped incorrectly, "Retyped Wrong" will be displayed, then the program will repeat the "New Pwd?" prompt.
If the new password is retyped correctly, "PASSWORD CHANGED" will be displayed briefly.
The program will terminate, returning the keypad to normal Jaguar control.
 - b) If the password is incorrect, "INVALID PASSWORD" will be displayed briefly, then the program will return to Step 2.
3. ". . WEIGHING . ." will be displayed. The entrance and exit traffic lights will be red. The program begins recording weights and continues until there is no motion on the scale or until 700 weight samples have been recorded.
The truck should pull slowly onto the scale, and stop when the whole truck is on the scale to obtain the certified gross weight.
4. If the gross weight on the scale is less than 1000 pounds, the program will return to Step 1.
5. ". . WORKING . ." will be displayed while calculations are performed.
6. If the gross weight on the scale is less than 1000 pounds, the program will return to Step 1.

7. If the system is configured for inbound/outbound operation, the program will advance to step 8. If configured for ID only, the program will advance to step 8. Otherwise, the program will advance to step 10.
8. "ID?" will be displayed. Up to 16 characters may be entered for an ID that will be available for printing in the ticket template. If the program is configured for inbound/outbound operation, the program will advance to step 9. Otherwise, the program will advance to step 10.
9. If the entered ID is not found in the in-process trucks file, "New Truck? Y" will be displayed. Press ENTER to save this truck in the in-process trucks file. The program will advance to step 10. To enter a different ID, press the selected key so that "New Truck? N" is displayed and press ENTER. The program will return to step 8. If the entered ID is found in the in-process trucks file, "In Process? Y" will be displayed. Press ENTER to complete the inbound-outbound transaction. The tare and net weights will be available for printing in the ticket template. If the wrong ID was entered, press the select key so that "In Process? N" is displayed and press ENTER. The program will return to step 8.
10. "Press ENTER" will be displayed.
 - a) If the gross weight on the scale is less than 1000 pounds, the program will return to Step 1.
 - b) If ENTER is pressed, the following steps will be performed.
 - i) While there is motion on the scale, ". . MOTION . ." will be displayed. When there is no motion, the certified gross weight of the truck is stored.
 - ii) If the gross weight on the scale is less than 1000 pounds, the program will return to Step 1.
 - iii) ". . PRINTING . ." will be displayed. A demand print for scale A is performed. If there is a printing error, "PRINT ERROR" is displayed briefly.
 - iv) The entrance traffic light remains red. The exit traffic light turns green.
 - v) The program returns to Step 7.
50. "In/Out? " will be displayed. This determines whether inbound/outbound processing of trucks for gross/tare/net is allowed. Select "Y" to enable inbound/outbound weighing. If "Y" is selected, the program will return to step 2.
51. "ID Entry? " will be displayed. This determines whether the operator/drive is prompted for a 16 character ID. The ID will be available for printing in the ticket template. Note that if inbound/outbound operation is selected, ID Entry is automatically enabled. Select "Y" to enable ID Entry. The program will return to step 2.
60. "Del ID:?" will be displayed. Enter the ID of the truck to be deleted from the in-process trucks file, or just press ENTER to return to step 2. If an ID is entered, the display will change to "NOT FOUND" if the ID entered does not match any of the trucks in the in-process trucks file, or to "Record Deleted" if the ID was found. The program will then return to the beginning of this step.

Notes:

- The JagBASIC program will autostart on Jaguar power up and on exit from setup. The JagBASIC program may also be restarted by pressing the Function key, then pressing the '1' key at the "Run Program #?" prompt.
- The Jaguar keypad may be used for normal Jaguar operations only while the JagBASIC program is stopped. To terminate the program, do the following while "PULL ONTO SCALE" is displayed on the lower Jaguar display.
Press the ESCAPE key. Then press the SELECT key until "Exit" is displayed on the lower Jaguar display, then press ENTER.
"Passwd?" will be displayed on the lower Jaguar display. Type the password and press ENTER. (The original password is null. At the "Passwd?" prompt, just press ENTER.)
(If the password is incorrect, "INVALID PASSWORD" will be displayed briefly, and then the program will return to "PULL ONTO SCALE".)
"NewPwd? " and the current password will be displayed. Press ENTER to keep the current password.
The program will terminate, returning the keypad to normal Jaguar control.

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