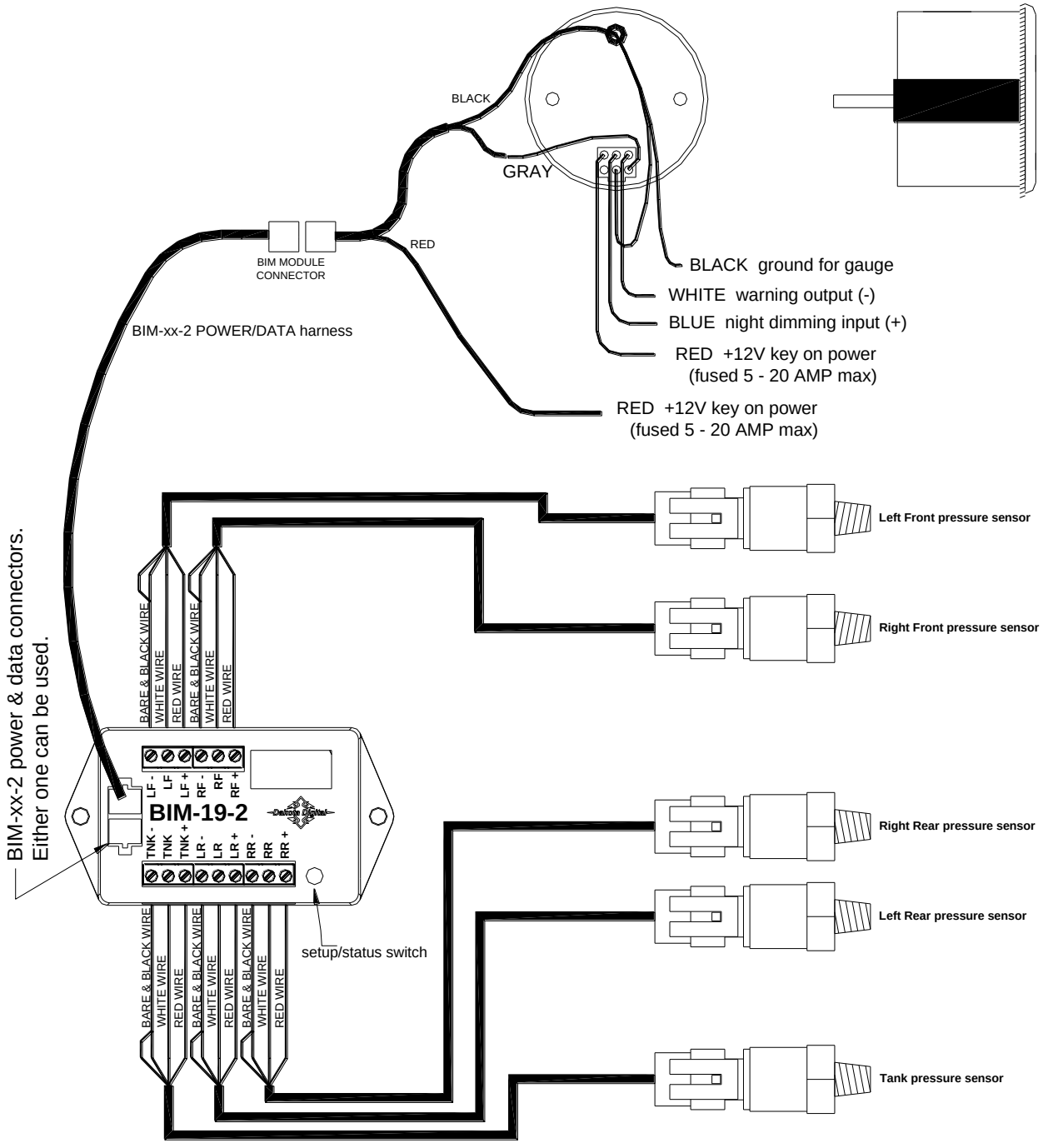
Odyssey

Manufactured by Dakota Digital

ODYR-19-7 & SLX-19-7
DUAL, TRIPLE, or QUAD AIR PRESSURE GAUGE



MAN# 650447:A

Operation:

The gauge needs only the RED and BLACK wires connected to light up. When the BLUE wire has 12 volts, it will dim the display for night viewing. The BIM-19 provides all of the sensor connections and attaches to the gauge with the supplied power/data cable. **The senders must be Dakota Digital part SEN-03-9.** Sending units from other manufacturers will cause incorrect readings. SEN-03-9 has 1/8" NPT threads. If other thread sizes are needed, an adapter fitting should be used to change the thread size. If a sender is giving an incorrect reading, the display will show "EE". If the sender is shorted to ground, the display will show "--".

The display will flash and the warning output will be set whenever one of the displayed pressures is out of the warning set limits.

When the tank pressure sender is connected, pressing the switch on the front of the gauge will switch between displaying the bag pressures and the tank pressure.

The default setup for the BIM-19-2 will work correctly with the ODYR-19-7 kit. Additional specifics about the BIM-19-2 can be found in its separate manual.

Air Ride setup options:

		4 bag	3 bag	Front/Rear	Left/Right
LR	-	LEFT REAR	REAR	REAR	LEFT
RR	-	RIGHT REAR	not connected	not connected	RIGHT
LF	-	LEFT FRONT	LEFT FRONT	FRONT	not connected
RF	-	RIGHT FRONT	RIGHT FRONT	not connected	not connected
TNK	-	TANK (optional for all bag setups)			

Specs for each input are:

Part #	Range	resolution	low warning	high warning
SEN-03-9	0 - 300psi	1	0 – 252	48 – 300

Using external warning indicators:

The WHITE wire provides a ground trigger whenever any of the senders are outside the set limits. Low current indicators (less than 1/2 A) can be activated directly by connecting their power wire to 12 volts and connecting their ground wire to the WHITE wire.

For higher current buzzers or lights, a relay will need to be used to switch the indicator on. Dakota Digital's RLY-1 30A relay may be used for this. One of the coil wires should be connected to 12 volts and the other coil wire connected to the WHITE wire. When the gauge is outside its limits, the relay will turn on. The relay contact wires can be used to switch the higher current.

Mounting:

The gauge requires a round hole 2-1/16" in diameter. It should be inserted into the opening from the front and the U-clamp will be installed from the back. Tighten the two nuts on the U-clamp so that the gauge is secure. Gauge depth to the back of the case is 1-1/2". Gauge depth including the mounting studs is 2-3/8".

The BIM-19 can be mounted to wood, metal, or plastic using screws with the two mounting holes, double sided tape, or hook and loop fasteners.

Setting the warning limit:

The low and high warning limits can be set to different values for each sensor. The push button switch on the front of the display is used for setting the warning limit. The procedure for setting the warning limit is as follows:

1. Hold the switch while you turn the key on. The display should light up and show “WARNING” “SETUP”.

2. Release the switch. The display should show “SENDERS” “FOUND” and a number indicating the number of senders detected. This number should match the number of senders connected to the BIM-19. Only senders that are connected can have their warning points set. (if 00 is shown, check the BIM and sender connections and then momentarily press the switch)

3. Momentarily press the switch. The display will show the first sender label and its ID #.

4. Each time the switch is momentarily pressed it will go to the next sender.

5. When the desired sender is shown, press and hold the switch. When the lower section of the display blanks, release the switch.

6. The display will now show “WARN” “LOW” and the current low warning point (0 – 252).

7. Each time the switch is momentarily pressed the low warning point will increase.

8. When the desired low warning point is displayed, press and hold the switch. When the text blanks, release the switch.

9. The display will now show “WARN” “HIGH” and the current high warning point (48 – 300).

10. Each time the switch is momentarily pressed the high warning point will increase.

11. When the desired high warning point is displayed, press and hold the switch. When the text blanks, release the switch.

12. The display will now go back to the sender selection screen in step 4. You can select another sender to set or turn the key off to exit setup.

Troubleshooting guide.
Additional troubleshooting tips on the BIM-19-2 can be found in its separate manual.

Problem	Possible cause	Solution
Gauge will not light up	Red wire does not have power.	Connect to a location that has power.
	BLACK wire is not getting a good ground.	Connect ground to a different location.
	Gauge is damaged.	Return gauge for repair. (see instructions)
Gauge lights up, but displays "NO SENDERS FOUND"	BIM-19 is not connected.	Connect a BIM-19 using the power/data cable.
	BIM-19 is not powered.	Check power connections on BIM-19.
	Data cable is not plugged in securely.	Check both ends of the data cable.
Gauge lights up, but displays "BIM-19 SIGNAL ERROR"	BIM-19 is not connected.	Connect a BIM-19 using the power/data cable.
	BIM-19 is not powered.	Check power connections on BIM-19.
	Data cable is not plugged in securely.	Check both ends of the data cable.
	A BIM module other than a BIM-19 is connected.	The ODYR-19-7 is only compatible with the BIM-19.
Gauge lights up, but displays "EE".	Sender is not connected to BIM-19.	Connect wires from sender to BIM-19 terminals.
	Wires are crossed or shorted.	Verify sender connection to BIM-19.
	Wire between BIM-19 and sender is broken.	Test and replace wire.
	BIM-19 is damaged.	Return gauge for repair. (see instructions)
	Sender is damaged.	Return for replacement. (see instructions)
Gauge lights up, but displays "--".	Sender wire is shorted to ground.	Check wire for damaged insulation, replace if necessary.
	Wire between BIM-19 and sender is broken.	Test and replace wire.
	BIM-19 is damaged.	Return gauge for repair. (see instructions)
	Sender is damaged.	Return for replacement. (see instructions)
Gauge lights up, but does not read correctly.	Loose connection on power wire.	Reconnect wire going to PWR terminal.
	Poor sender ground.	Make sure gauge and BIM are getting a solid ground.
	Poor ground connection.	Move ground to different location
	Incorrect sender type.	Make sure sender has been replaced with the correct type (SEN-03-9).
Gauge flashes constantly.	Warning limits are not set properly.	Reset warning limits.
	Vehicle has improper air pressure.	Check air level and air pump.
External warning indicator does not work.	Indicator not connected properly.	Check indicator wiring connections.
	Indicator does not work.	Repair or replace indicator.
	Gauge output has been damaged.	Return gauge for repair. (see instructions)
Gauge will not dim.	BLUE wire is not connected correctly.	Check wiring connections.
	Gauge is damaged.	Return gauge for repair. (see instructions)
Gauge remains dim at all times.	BLUE wire is getting power all of the time.	Connect BLUE wire to location that only has power when the headlights are on.
	Battery is very low.	Recharge or replace vehicle battery.
	Gauge is damaged.	Return gauge for repair. (see instructions)

Technical specifications

Minimum operating voltage	-	7 volts
Maximum operating voltage	-	18 volts
(operating at or near maximum rating for an extended time can damage unit)		
Maximum pressure reading	-	300 psi
Gauge Resolution	-	1 psi
Typical current draw (@ 13.8V)	-	0.10 A

SERVICE AND REPAIR

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical consultation is available to help you work through any questions or problems you may be having installing one of our products. Please read through the Troubleshooting Guide. There, you will find the solution to most problems.

Should you ever need to send the unit back for repairs, please call our technical support line, (605) 332-6513, to request a Return Merchandise Authorization number. Package the product in a good quality box along with plenty of packing material. Ship the product by UPS or insured Parcel Post. Be sure to include the RMA number on the package, and include a complete description of the problem with RMA number, your full name and address (street address preferred), and a telephone number where you can be reached during the day. Any returns for warranty work must include a copy of the dated sales receipt from your place of purchase. Send no money. We will bill you after repair.

Dakota Digital 24 Month Warranty

DAKOTA DIGITAL warrants to the ORIGINAL PURCHASER of this product that should it, under normal use and condition, be proven defective in material or workmanship within 24 MONTHS FROM THE DATE OF PURCHASE, such defect(s) will be repaired or replaced at Dakota Digital's option.

This warranty does not cover nor extend to damage to the vehicle's systems, and does not cover removal or reinstallation of the product. This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

This Warranty is in lieu of all other expressed warranties or liabilities. Any implied warranties, including any implied warranty of merchantability, shall be limited to the duration of this written warranty. Any action for breach of any warranty hereunder, including any implied warranty of merchantability, must be brought within a period of 24 months from date of original purchase. No person or representative is authorized to assume, for Dakota Digital, any liability other than expressed herein in connection with the sale of this product.

⚠**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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