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RECOMMENDED SETUP INFORMATION FOR HUNTER GSP9700

This bulletin has been amended. The publication date has been revised to include the latest models and model years. No other changes have been made. Please discard previous versions of this bulletin.

APPLIED VEHICLES: All Infiniti

SERVICE INFORMATION

The most common cause of vehicle vibration at highway speeds is tire/wheel assembly forces. There are three primary contributors that affect tire/wheel assembly forces:

- Imbalance
- Radial run-out
- Tire Road Force Variation (RFV).

The Hunter GSP9700 has the capability to measure tire Road Force Variation (RFV).

When measuring RFV it is important to look at both the RH1 and RH2 values.

Use the instructions in this bulletin to set your Hunter GSP9700 to the Infiniti recommended settings for optimum performance with Infiniti wheel / tire assemblies:

Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Infiniti retailer to determine if this applies to your vehicle.

INSTRUCTIONS FOR ENTERING INFINITI RECOMMENDED SETTINGS INTO THE HUNTER GSP9700

This document provides setup information for the Hunter GSP9700. These instructions change the balancer setup files to Infiniti recommended values, including:

- Only allow SmartWeight balance mode
- Turn on prompted centering checks
- Set Road Force values to Infiniti specifications
- Set weight units to grams
- Disable QuickMatch

Setup the Balancer to Infiniti Recommend values

Enter Service Mode

1. To set the balancer to Infiniti recommended values, the balancer must be in Service Mode.

From the main screen, enter Service Mode by holding the **K2** button and press the **R** button twice.

(For older models, hold the **K2** and **K3** buttons and press the **R** button twice.)

The balancer will now be in Service Mode.
(Fig.1)



Fig.1

NOTE: The setup instructions on the following pages have steps for navigating the balancer screens that say "Turn the control knob to navigate to.....". For older models, when instructed to 'turn the control knob,' use the **K2** or **K3** buttons instead.

Enter Setup

1. Use the menu shift key, , to navigate to and select "Set Up". (Fig.2)



Fig.2

Verify "Use Runout & Road Force Limits" is enabled.

1. Turn the control knob to navigate to "Use Runout & Road Force Limits". (Fig.3)

Verify the setting is:
Enabled
(Fig.3)

2. If it is not enabled, select "Set Up Selected Item". (Fig.3)

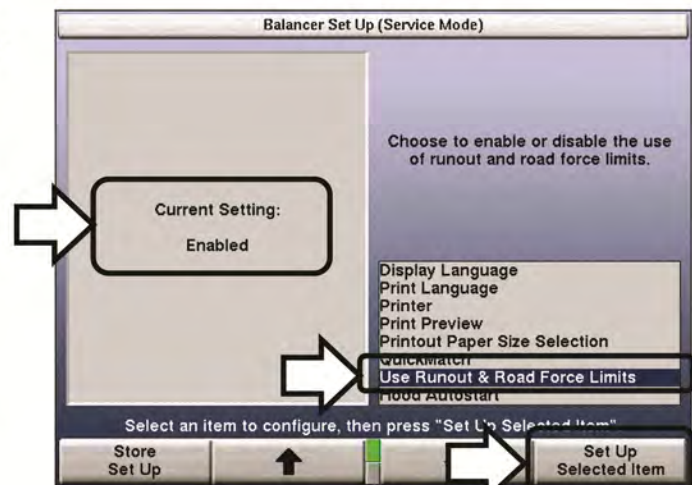


Fig.3

3. Change to "Enabled". (Fig.4)
4. Select "OK". (Fig.4)

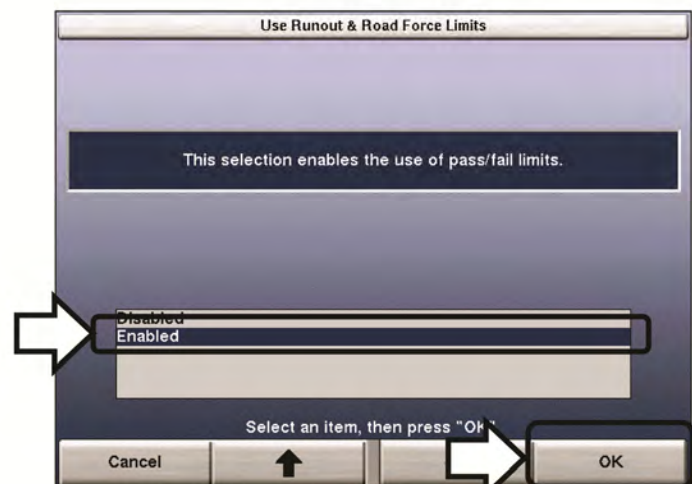


Fig.4

Enable SmartWeight Only Balance Mode and Change WeightSaver Residual Goal

1. Turn the control knob to navigate to "Balance Limits". (Fig.5)

The default settings are:
SmartWeight - Enabled
Non-SmartWeight - Enabled
(Fig.5)

2. Select "Set Up Selected Item". (Fig.5)

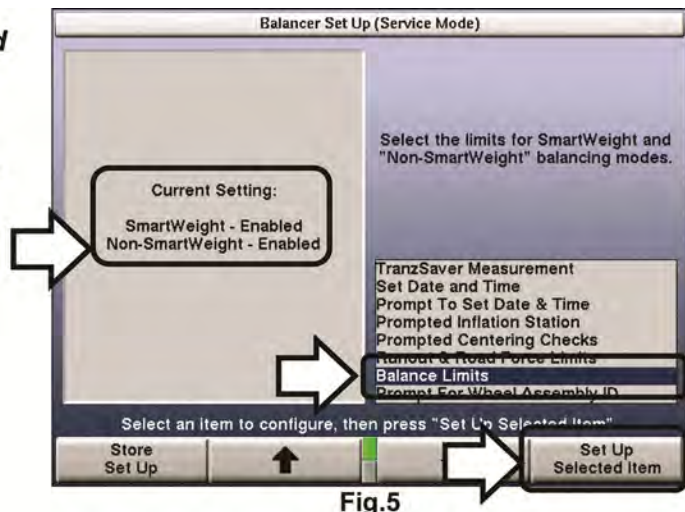


Fig.5

3. Select "Non-SmartWeight" and change to "Disabled". (Fig.6)
4. Press the control knob until the "WeightSaver Residual Goal" field is highlighted.
5. Change the "WeightSaver Residual Goal" setting to 60 % (Fig. 6)
6. Select "OK". (Fig.6)

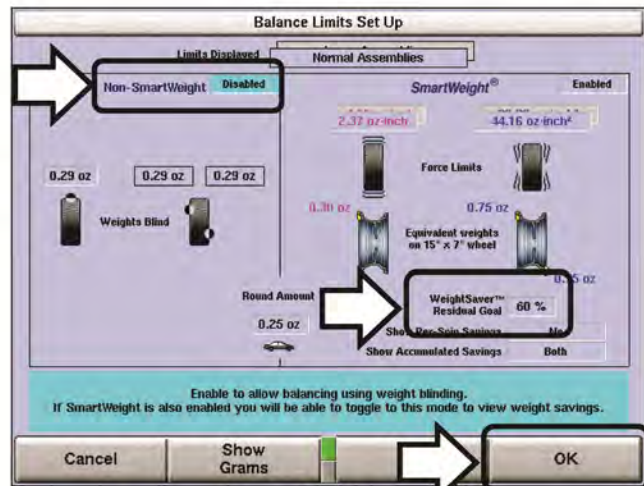


Fig.6

7. The Balance Limits screen now reflects the following values:

SmartWeight - Enabled
Non-SmartWeight - Disabled
(Fig.7)

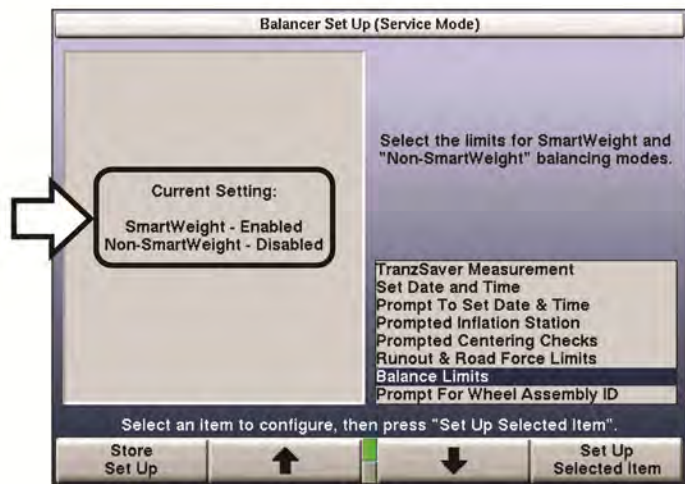


Fig.7

Enable Prompted Centering Checks

1. Turn the control knob to navigate to "Prompted Centering Checks". (Fig.8)

The default setting is:
Disabled
(Fig.8)

2. Select "Set Up Selected Item". (Fig.8)

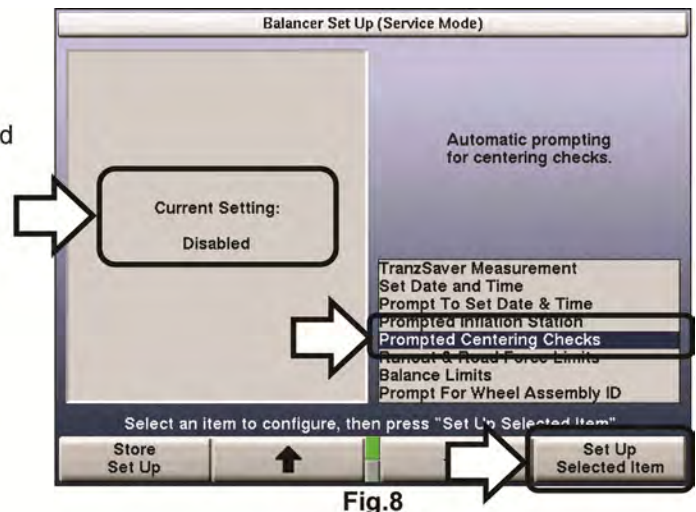


Fig.8

3. Change to "Enabled". (Fig.9)

4. Select "OK". (Fig.9)

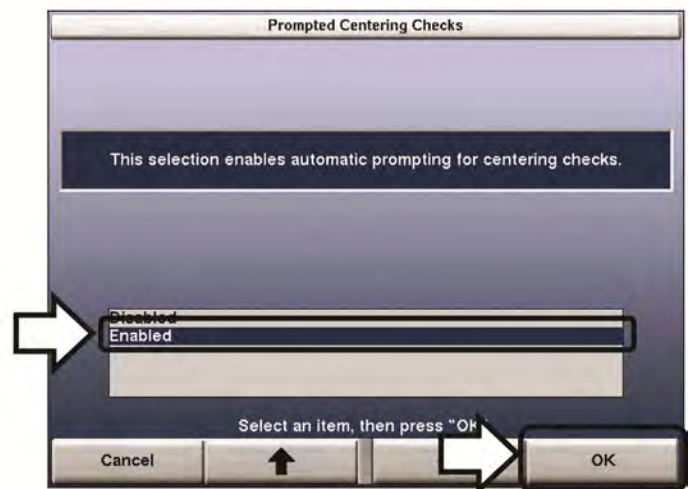


Fig.9

5. The Prompted Centering Checks screen now reflects the following value:

Enabled
(Fig.10)

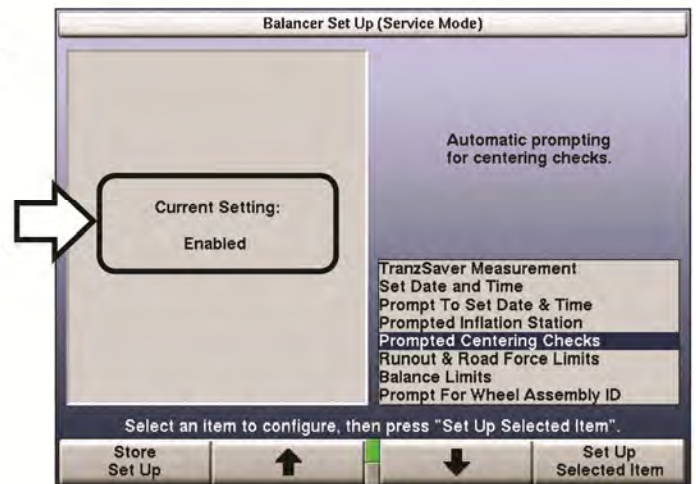


Fig.10

Set Road Force Units to Display Kilograms

1. Turn the control knob to navigate to "Road Force Units". (Fig.11)

The default setting is:
pounds
(Fig.11)

2. Select "Set Up Selected Item". (Fig.11)

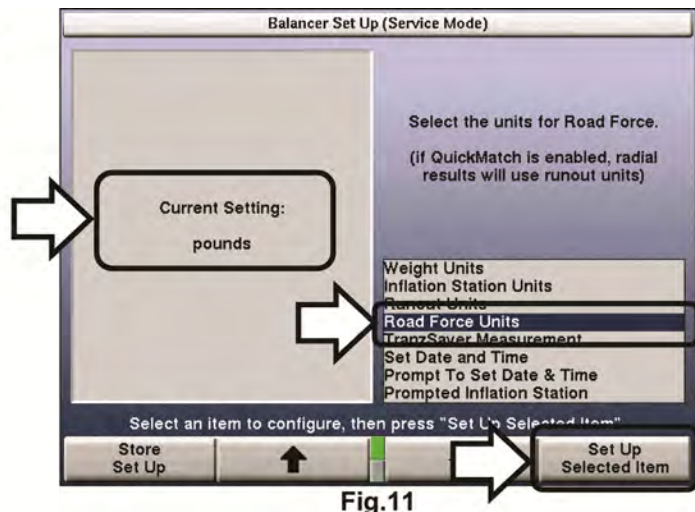


Fig.11

3. Change to "kilograms". (Fig.12)

4. Select "OK". (Fig.12)

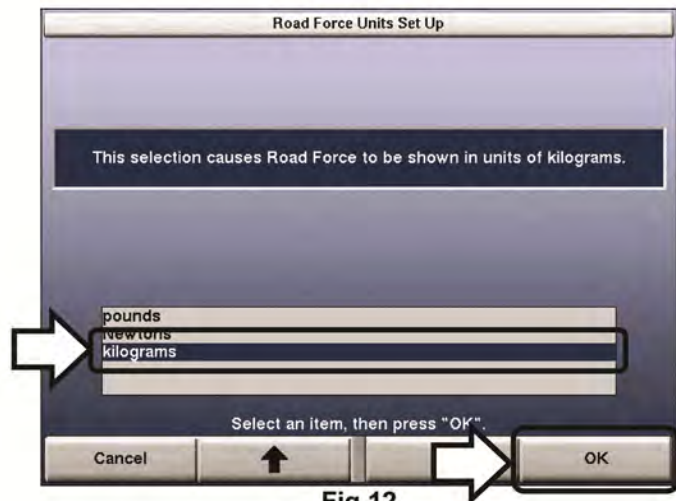


Fig.12

5. The Road Force Units screen now reflects the following value:

kilograms
(Fig.13)

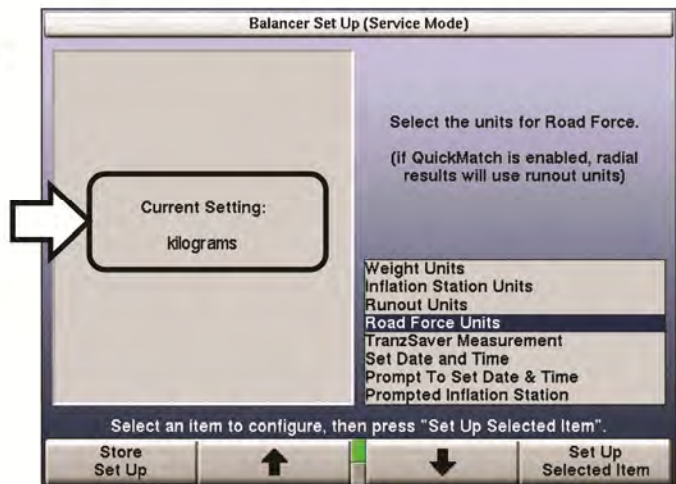


Fig.13

Disable QuickMatch Setting

1. Turn the control knob to navigate to "QuickMatch". (Fig.14)

The default setting is:
Enabled, with toggle key
(Fig.14)

2. Select "Set Up Selected Item". (Fig.14)

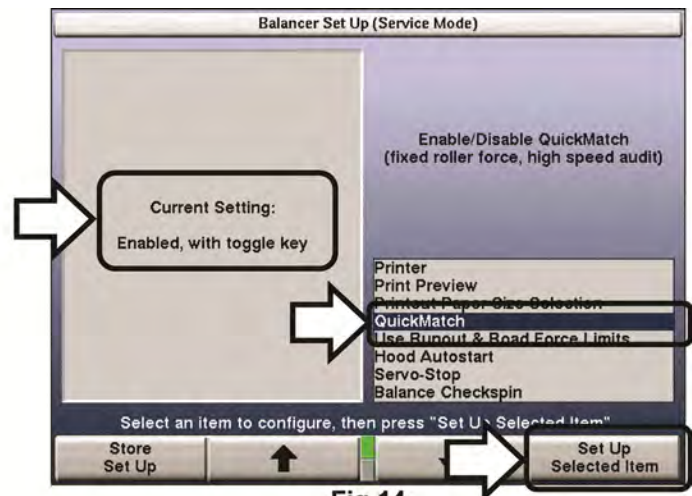


Fig.14

3. Change to "Disabled". (Fig.15)

4. Select "OK". (Fig.15)

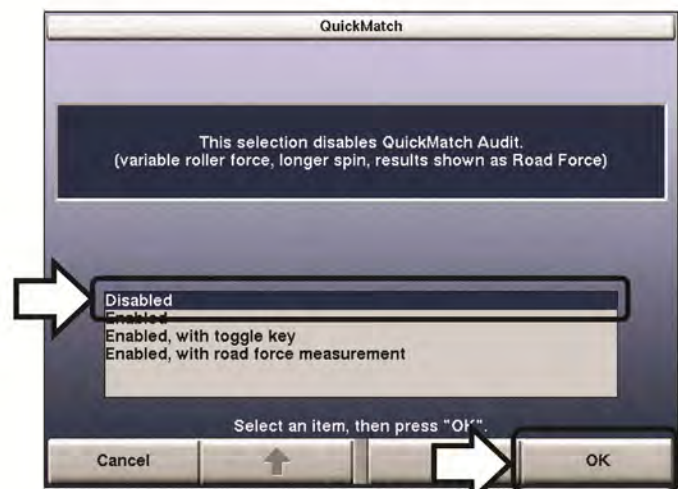


Fig.15

5. The Weight Units screen now reflects the following value:

Disabled
(Fig.16)

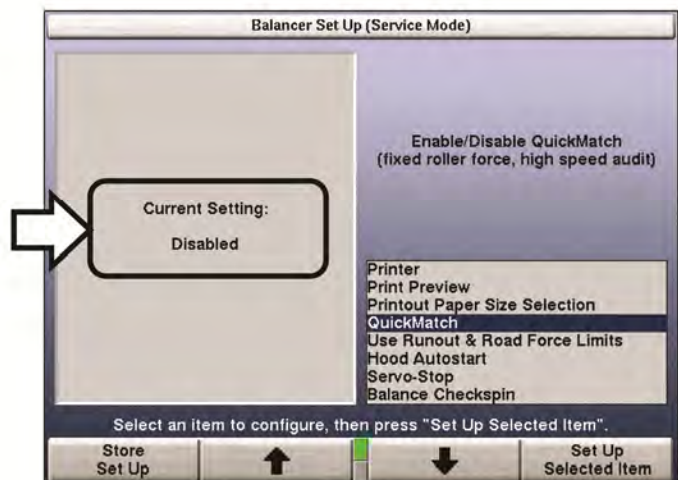


Fig.16

Set Weight Units to Display Grams

1. Turn the control knob to navigate to "Weight Units". (Fig.17)

The default setting is:
ounces
(Fig.17)

2. Select "Set Up Selected Item". (Fig.17)

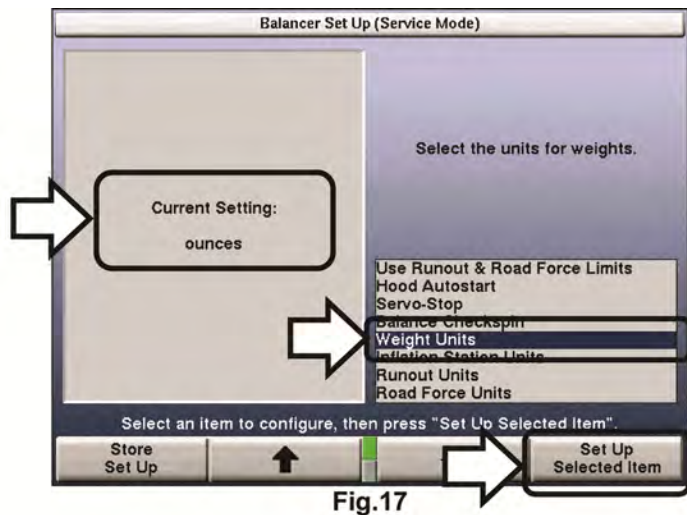


Fig.17

3. Change to "grams". (Fig.18)

4. Select "OK". (Fig.18)

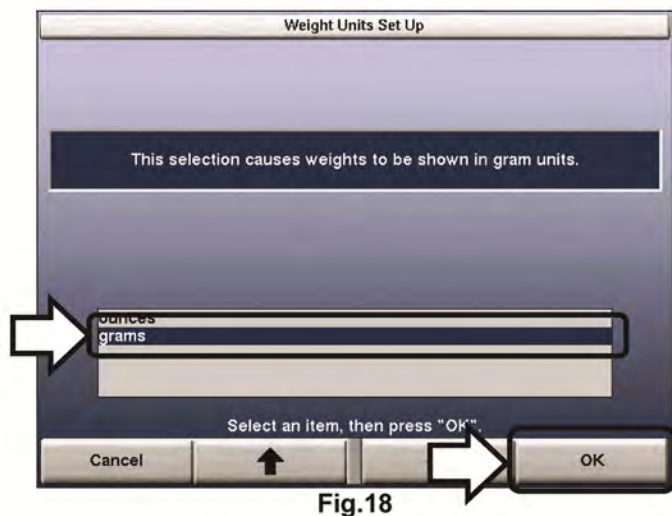


Fig.18

5. The Weight Units screen now reflects the following value:

grams
(Fig.19)

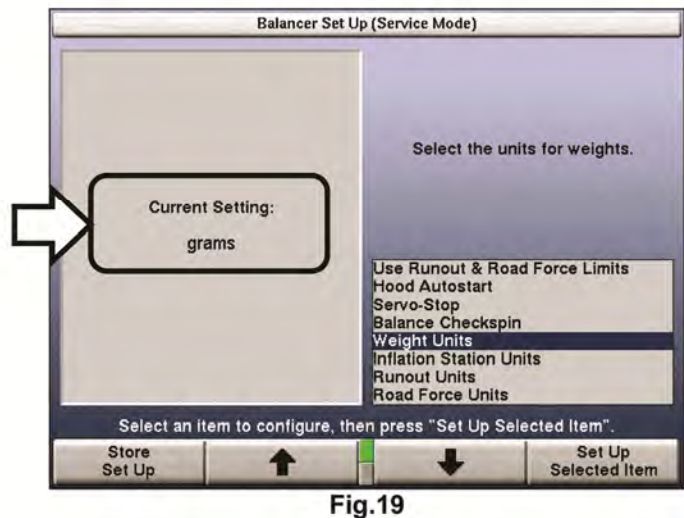


Fig.19

Set Runout & Road Force Limits and Limits Multiplier for LT Tires and P/SUV Tires

1. Turn the control knob to navigate to "Runout & Road Force Limits". (Fig.20)

The default setting is:
Road Force:12.0 kg

2. Select "Set Up Selected Item". (Fig.20)

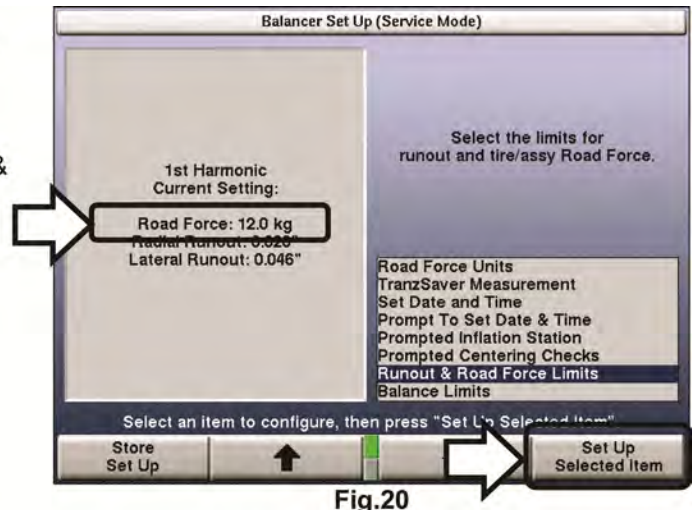


Fig.20

3. Change the "Radial 1st Harmonic" setting to 9.0 kg (Fig.21)

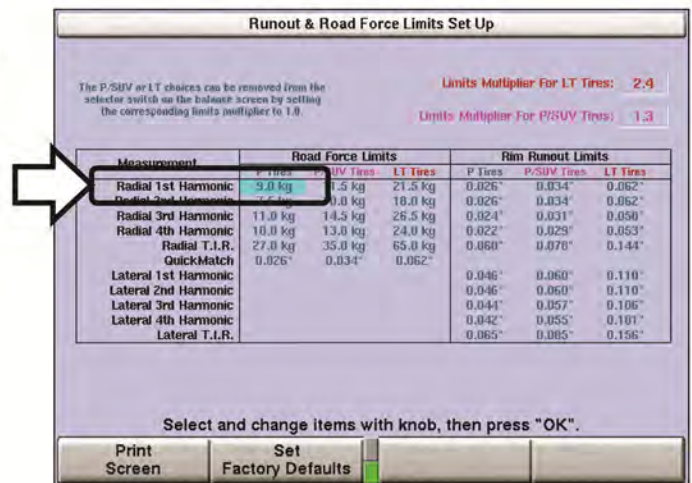


Fig.21

4. Change the "Radial 2nd Harmonic" setting to 7.5 kg (Fig.22)

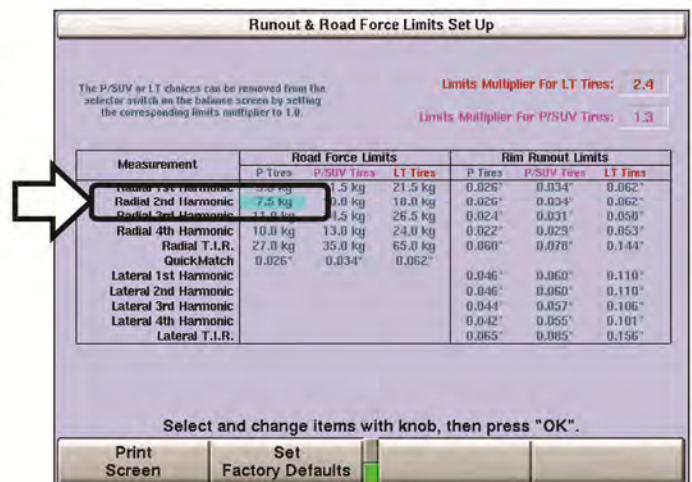


Fig. 22

5. Press the control knob until the "Limits Multiplier for LT Tires" field is highlighted. (Fig.23)
6. Change the "Limits Multiplier for LT Tires" setting to **2.4**. (Fig.23)



Fig.23

7. Press the control knob until the "Limits Multiplier for P/SUV Tires" field is highlighted. (Fig.24)
8. Change the "Limits Multiplier for P/SUV Tires" setting to **1.3**. (Fig.24)
9. Select "OK". (Fig.24)

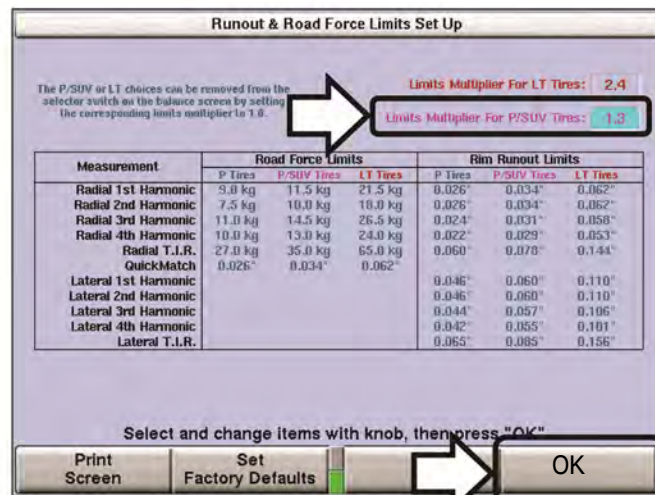


Fig.24

10. The Runout & Road Force Limits screen now reflects the following value:

Road Force: 9.0 kg
(Fig.25)

8. Select "Store Set Up". (Fig.25)
9. Exit service mode by holding the **K2** button and press the **R** button twice.

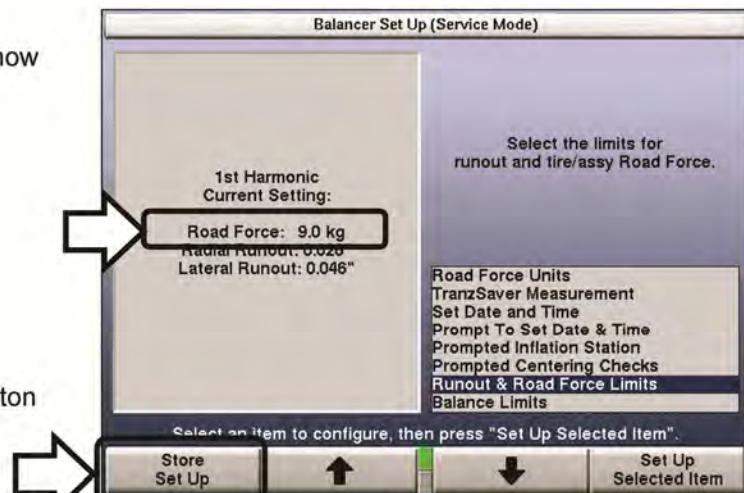


Fig.25

(For older models, hold the **K2** and **K3** buttons and press the **R** button twice.)

Verify Settings

1. From the main balance screen, verify the following settings are displayed:

Weight units are in grams
Only SmartWeight is enabled
Road Force Units are set to 9 kg..
(Fig.26)

2. Infiniti setup is complete.

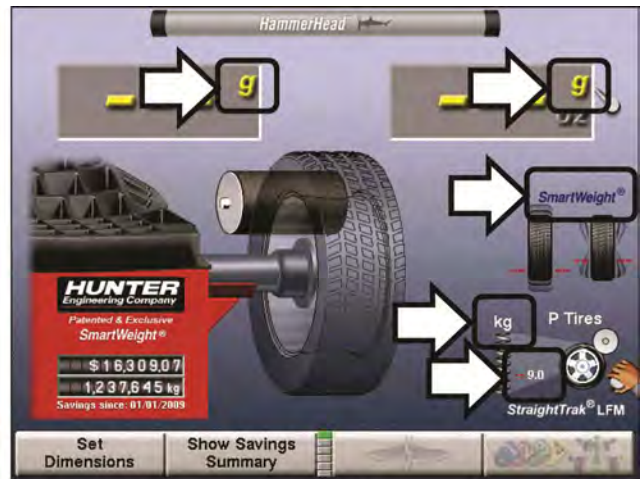


Fig.26