

GENERAL INFORMATION

The wheels and tyres of the following specifications have been established.

SPECIFICATIONS

Item		GLX	VR-X	EXCEED
Wheel	Type	Steel type Aluminium type*1	Aluminium type	Aluminium type
	Size	14 × 5 1/2JJ	15 × 6JJ	14 × 5 1/2JJ
	Amount of wheel offset mm	46	46	46
	Pitch circle diameter (P.C.D.) mm	100	100	100
Tyre	Size	185/65R14 86S	195/55R15 84V	185/65R14 86S
Spare wheel	Type	Steel type	Steel type	Steel type
	Size	15 × 4.0T	15 × 4.0T	15 × 4.0T
	Amount of wheel offset mm	46	46	46
	Pitch circle diameter (P.C.D.) mm	100	100	100
Spare tyre	Size	T125/70D15 (High pressure)	T125/70D15 (High pressure)	T125/70D15 (High pressure)

NOTE

*1: Optional items

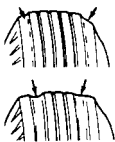
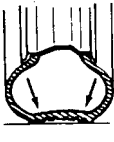
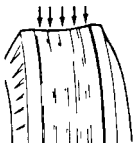
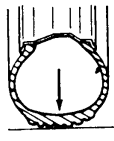

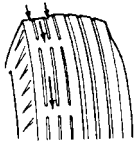
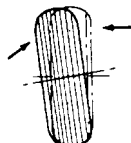
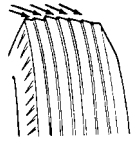
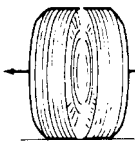
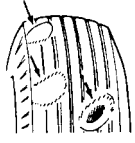
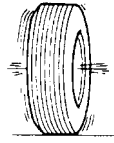
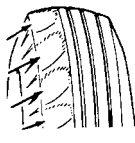
SERVICE SPECIFICATIONS

Items		Limit
Tread depth of tyre mm		1.6
Wheel runout (Radial runout) mm	Steel wheel	1.2 or less
	Aluminium wheel	1.0 or less
Wheel runout (Lateral runout) mm	Steel wheel	1.2 or less
	Aluminium wheel	1.0 or less

TROUBLESHOOTING

MAIN

Group
31

Symptom		Probable cause		Remedy	Reference page
Rapid wear at shoulders	 11X0109	Under-inflation or lack of rotation	 11X0116	Adjust the tyre pressure.	31-8
Rapid wear at centre	 11X0110	Over-inflation or lack of rotation	 11X0117		
Cracked treads	 11X0111	Under-inflation		Adjust the tyre pressure.	31-8
Wear on one side	 11X0112	Excessive camber	 11X0118	Inspect the camber.	Refer to On-vehicle Service.
Feathered edge	 11X0113	Incorrect toe-in	 11X0119	Adjust the toe-in.	
Bald spots	 11X0114	Unbalanced wheel	 11X0120	Adjust the imbalanced wheels.	31-5
Scalloped wear	 11X0115	Lack of rotation of tyres or worn or out-of-alignment suspension		Rotate the tyres and check the front suspension alignment.	Refer to On-vehicle Service.

WHEEL BALANCE ACCURACY

PURPOSE

This section contains tips and procedures for achieving accurate wheel balance. Steering wheel vibration and /or body shake can result if any of these procedures are not carefully observed.

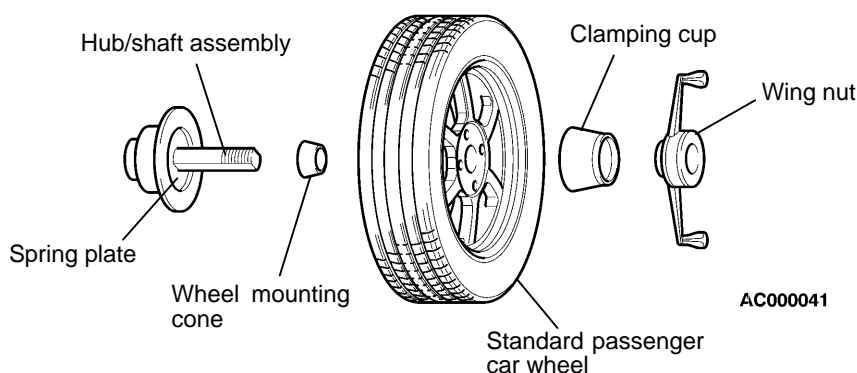
1. Wheels and tires must be properly mounted on a balancer in order to achieve correct balance. Centering the wheel on the shaft of the balancer is essential for proper mounting.
2. Off-the-car wheel balancers must be calibrated periodically to ensure good balancing results. An inaccurately calibrated balancer could cause unnecessary replacement of tires, shocks, suspension components, or steering components.

Check your balancer's calibration approximately every 100 balances. Your wheel balancer's instruction manual should include calibration procedures. If the calibration procedures specifically for your balancer are missing, use the generic steps in this section for zero calibration, static balance, and dynamic balance checks. The wheel balancer calibration checks are also described in the [flowchart](#).

PROCEDURE

Balancing Tips

1. Confirm that the balancer's cone and the wheel mounting cone are undamaged and free of dirt and rust.
2. On this vehicle the wheel's center hole on the hub side has a chamfered edge. Use a back-mounting cone on your wheel balancer to center the wheel on the balancer shaft.
3. Install a wheel mounting cone. The appropriate size cone for this vehicle is 67.0 mm.
4. Before balancing the wheel, remove any wheel weights from both sides. Also check both sides for any damage.
5. When installing wheel weights, hammer them at a straight (not diagonal) angle.



Confirming Proper Balance

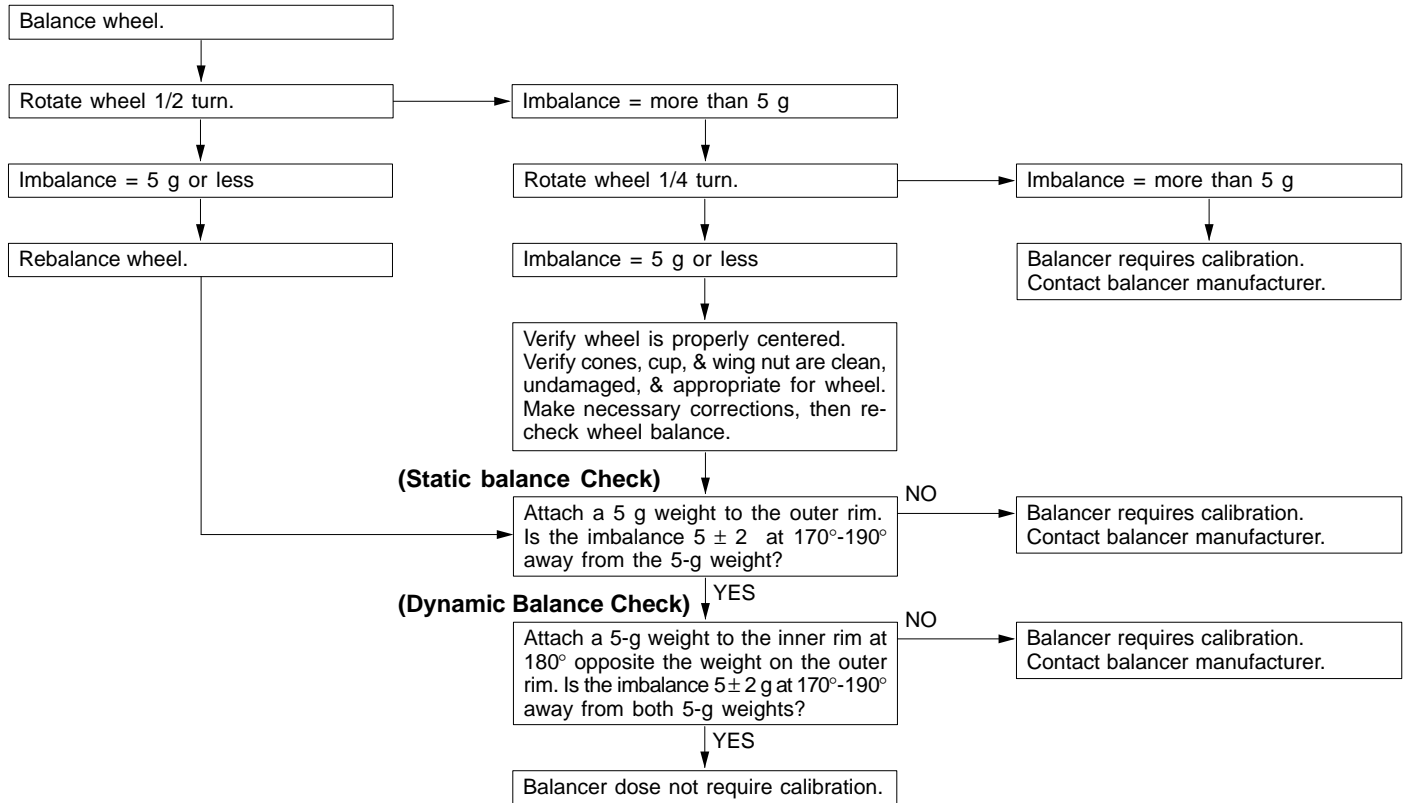
1. After balancing the wheel, loosen the wing nut and turn the wheel 180° against the balancer's hub. Then retighten the wing nut and check the balance again. Repeat wheel balance if necessary.
2. Turn the wheel again 180° against the balancer's hub. If the wheel becomes out-of-balance each time it is turned against the balancer's hub, the wheel balancer may require calibration.

Wheel Balancer Calibration Checks

1. Mount an undamaged original-equipment alloy rim and tire assembly (wheel) onto your off-the-car wheel balancer. Balance the wheel.
2. **Zero Calibration Check**
Loosen the balancer wing nut, rotate the wheel a half turn (180°), and retighten the nut. Recheck the balance.

- If the imbalance is 5 g or less, the zero calibration is OK. Rebalance the wheel, then go to Step 4 to check static balance.
 - If the imbalance is more than 5 g, go to Step 3.
3. Loosen the balancer wing nut, rotate the wheel 1/4 turn (90°), and retighten the nut. Recheck the wheel balance.
- If the imbalance is 5 g or less, the wheel may not be centered on the balancer, or the balancing cones, the cup, and/or wing nut are damaged, dirty, or inappropriate for the wheel. You may need to refer to the balancer manufacturer's instructions to verify the correct attachments. After making the necessary corrections, recheck the wheel balance. If OK, then go to Step 4.
 - If the imbalance is more than 5 g, the balancer requires calibration. Contact the balancer manufacturer for calibration by their repair representative.
4. **Static Balance Check**
Attach a 5-g weight to the outer rim. Recheck the balancer. The balancer should detect 5 ± 2 g of imbalance 170° to 190° away from both the inner and outer 5-g weights.
- If the imbalance is within specification, the static balance calibration is correct. Go to Step 5 to check the dynamic balance.
 - If the imbalance is out of specification, the balancer requires calibration. Contact the balancer manufacturer for calibration by their repair representative.
5. **Dynamic Balance Check**
Attach a 5-g weight to the inner rim at 180° opposite the 5-g weight that was added in step 4. Recheck the balance. The balancer should detect 5 ± 2 g of imbalance 170° to 190° away from both the inner and outer 5-g weights.
- If the imbalance is within specification, the dynamic balance calibration is correct. The balancer calibration checks are complete.
 - If the imbalance is out of specification, the balancer requires calibration. Contact the balancer manufacturer for calibration by their repair representative.

WHEEL BALANCER CALIBRATION CHECKING FLOW CHART



ON-VEHICLE SERVICE

TYRE INFLATION PRESSURE CHECK

NOTE

For information on tyre inflation pressure, refer to the label attached near the driver's side door striker.

TYRE WEAR CHECK

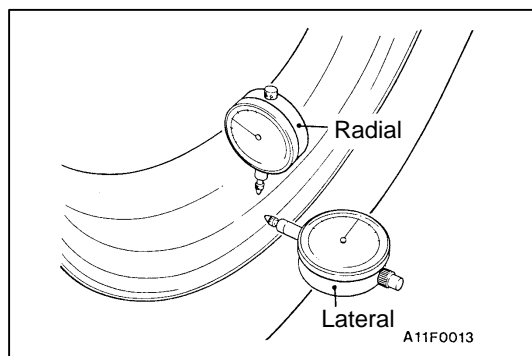
Measure the tread depth of tyres.

Limit: 1.6 mm

If the remaining tread depth is less than the limit, replace the tyre.

NOTE

When the tread depth of tyres is reduced to 1.6 mm or less, wear indicators will appear.



WHEEL RUNOUT CHECK

Jack up the vehicle so that the wheels are clear of the floor. While slowly turning the wheel, measure wheel runout with a dial indicator.

Limit:

Item	Steel wheel	Aluminium wheel
Radial runout mm	1.2	1.0
Lateral runout mm	1.2	1.0

If wheel runout exceeds the limit, replace the wheel.

WHEEL AND TYRE

INSTALLATION SERVICE POINT

Tighten the wheel nut to the specified torque.

Tightening torque: 98 ± 10 N·m