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auto-mate

Mitsubishi Triton MQ 2016-2018



Operating Instructions

Rev B: 28 Aug 2020



Watch our installation and operation videos
on the **MM 4X4** Channel

OWNERS COPY – Save these instructions for future reference

Thanks for purchasing **auto-mate**; a fantastic product to protect the transmission from over-heating, and to improve fuel economy.

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auto-mate Features

<i>Feature</i>	<i>Benefit</i>
Improved fuel economy	The unit will pay for itself in the long run
Significantly reduces automatic transmission heat build-up	Prolongs the life of the transmission oil and helps to avoid over-heating related transmission damage
Improved engine braking	Reduced use of brakes on hill descents
A new DRIVE mode, optimised to lock the Torque Converter Clutch (TCC) and gear changes	Easy to use. A driver may not even know it's there!
Adjustable gear shift profile	Can be shifted up and down to tailor to your liking for vehicle modifications.
Fully automatic operation at all speeds and gears; in SPORT and DRIVE modes, 4H and 4L	Easy to use Automatically adjusts for high and low range 4WD
SafeLock™ - Clutch Protection Technology	Protect the clutch from excessive wear for long life and reliability Lockup engagement uses the same low slip criteria as factory ECU
PWM control of the Torque Converter Clutch (TCC) solenoid	Mimics the factory control for smooth TCC lockup and confidence
Doesn't modify the factory ECU firmware	No re-maps or error code deletes of the ECU are required
Advanced Digital micro-processor using CANBus interface to ECUs	Digital interface to the vehicle computers to provide advanced lockup control and features
Simpler installation with comprehensive installation instructions	DIY saves money, or reduces cost if installed by an auto-electrician
Compatible with OBD2 devices	Compatible with your existing UltraGauge, ScanGauge, GPS HUD, etc
1st gear lockup support	Supports transmissions that have undergone a valve body upgrade to enable torque converter lockup in 1 st gear
Firmware upgrades	Access to future product improvements and new features. Control unit needs to be returned to MM4X4 for firmware updates

auto-mate Operation

Lockup controller uses speed, RPM, accelerator pedal position, 4WD mode, transmission mode (SPORT or DRIVE), headlight status, temperature, ECU lockup-status, slip, current gear and more

Complex logic to ensure the TCC is locked up whenever possible and protect the clutch from excessive wear, and to avoid engine trouble codes

CANBus interface is used to obtain information from the vehicle's internal digital network, via connection to the existing OBD2 port

Precise, reliable and accurate digital information
Simpler installation – no cutting of wires to obtain vehicle information
Immunity to electrical noise

Works when transmission is in either SPORT or DRIVE mode

Optimum benefits are obtained in SPORT mode – you shift gears to maximise lockup time.
Keeping the blue LED light on keeps the transmission cool and saves fuel!

Can be enabled or disabled using the LED/Switch

Can be easily switched off when desired
Remembers the setting between engine starts

Adjustable LED/Switch

Discrete and simple installation

Excessive slip alert (LED flashes)

Alerts the driver after 10 seconds of excessive slip to either change to a lower gear, or reduce power to enable lockup

LED is visible in sunlight, and automatically dims for night use (when headlights are on)

Avoids a glaring LED at night

Automatic headlight dimming can be over-ridden by the driver

LED will be visible during the daytime when driving with the headlights on

Compatible with other vehicle modifications (pedal re-mapping devices, engine re-tune, and exhaust upgrades etc)

auto-mate has adjustable sensitivity to tune it to your own car's performance and configuration

User initiated self-diagnostic mode, displaying results on the instrument cluster

Confirms correct installation and assists with fault finding

Detailed installation instructions

Easy to follow, DIY installation saving you money

Automatic VIN check

Automatically disables if installed into an unsupported vehicle

Compact design

Simpler installation

Small LED/Switch

Discrete and simple installation

User Configurable

Update user settings using the vehicle instrument cluster and transmission shift lever as the user interface

No need for an extra display or to access the **auto-mate** control unit to adjust the settings

1. Adjustable shift pattern

Fine tune when gear changes occur

2. Gear at which lockup commences

Select 1st, 2nd, 3rd etc (default is 2nd)

Lockup in 1st requires an after-market valve body

3. LED Brightness

Day-time and night-time LED brightness is separately adjustable

4. Transmission warm-up temperature

Choose the transmission temperature before **auto-mate** activates (20°C to 100°C)

Start-up state (on or off)

Remembers the switch setting

Reset to factory defaults

Restore settings to the original

Stores user settings in micro-processor's non-volatile memory

Remembers all settings when power is removed

- ✓ **Technical support**
- ✓ **Designed and Made in Australia**
- ✓ **12 months warranty**
- ✓ **30-day satisfaction guarantee**

Understanding how auto-mate works

auto-mate works by locking the transmission torque converter clutch (when possible), and placing the transmission into SPORT mode. It then changes gears just as if the driver was using the shift lever for + and – gear changes; fully automatically. All the inbuilt protections of the factory computer remain. For example, it will not let you change into 1st gear when the speed is too high. It does not reprogram or adjust the factory computer.

When using any lockup-kit with the AISIN transmission, there are sometimes unusual behaviours. By locking the torque converter clutch it modifies the ‘normal’ behavior of the transmission, and the ECU real-time diagnostics may detect this.

The results are unexpected behaviours (quirks):

1. When you’re in SPORT mode it may prevent a gear change from 1st to 2nd until the speed is above 30 kph / 3000 RPM,
2. As you decelerate it may change into 1st gear at 30 kph causing you to lunge forward a little.
3. In 4LLC, it may become stuck with the ‘quirks’ unless cleared (see later).

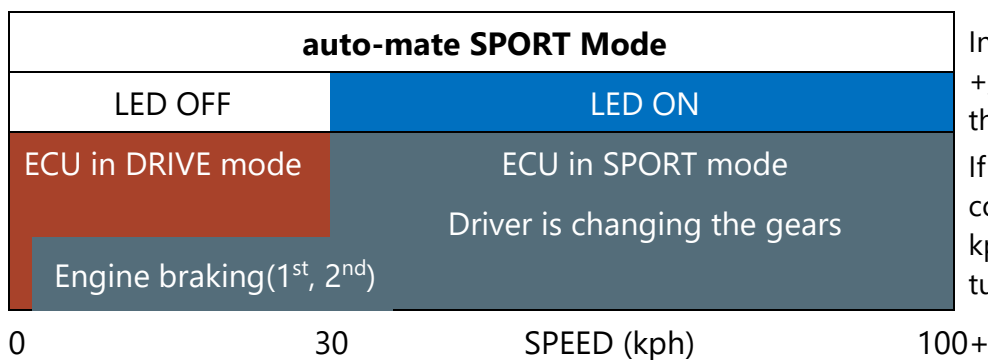
In high range, these quirks don’t occur when the transmission is in DRIVE mode.

auto-mate works together with the factory transmission computer and automatically switches between DRIVE and SPORT modes at the right times to provide seamless operation and avoid the quirks.

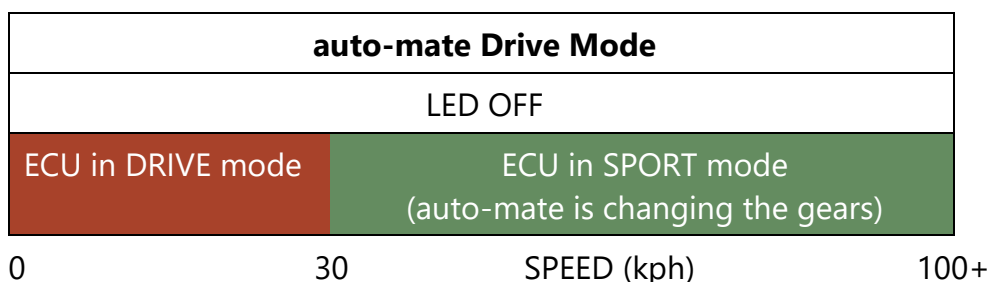
auto-mate places the transmission into DRIVE mode when below 30 kph regardless of the shift lever position.
SPORT mode becomes essentially a hybrid DRIVE/SPORT mode.

You’ll notice this in the instrument cluster as it switches between D and the gear number.

The LED (ON) informs the driver when they are truly in SPORT mode, and in control of the gear changes.



In **auto-mate** SPORT mode, the +/- shift lever is ignored until the speed is above 30 kph. If precise 1st and 2nd gear choice control is needed at speeds <30 kph, **auto-mate** can be simply turned OFF.



SAFETY FEATURE – Engine Braking

auto-mate does not shift into DRIVE at 30 kph when you are in 1st or 2nd gear (SPORT mode) and are decelerating using engine braking (foot off accelerator pedal). Shifting into DRIVE releases engine braking and has the potential to cause an accident if unexpected.

At 30 kph and below, the transmission may either stay in 2nd gear, or switch to 1st gear (ie, quirk is not avoided). Although the quirk is not avoided, unexpected switching into 1st gear has the effect of increased engine braking and is safer compared to the alternative of releasing engine braking by switching to DRIVE.

Alternatively, for predictable gear control and to avoid the 1st gear quirk, switch off **auto-mate** using the LED/switch. Winding down-hill descents that require engine braking will not over-heat the transmission nor use more fuel.

4WD Low Range (4LLc) Operation

When in 4LLc, these quirks described above aren't created during driving, however using the technique of selecting DRIVE will not avoid them. Instead, it may become 'stuck' with the quirks when in low range. A procedure should be followed as described below.

PROCEDURE: Entering 4LLc (Low Range 4WD)

First, determine if the transmission has the quirk.

To know if the quirk mode is active:

Vehicle stationary - ignition or engine on - low or high range 4WD:

1. Turn off **auto-mate** (push LED/Switch)
2. Put the transmission lever into SPORT
3. Try to change up to 2nd gear (shift lever +).
If the quirk mode is active it will not let you go into second gear.

NOTE: Starting and stopping the vehicle using the ignition key DOES NOT clear the quirk.

Procedure to clearing the quirk

There are two ways to 'clear' the quirk mode:

1. Clear the engine trouble codes. Put the transmission into PARK and use your OBD2 reader (ScanGauge, UltraGauge, Torque Pro, etc) to issue a CEL reset. It MUST be in PARK. Even though there are no engine trouble codes reported, this works; or
2. In high range (2H,4H,4HLc) turn off **auto-mate** and drive normally to above 30 kph, such that the torque converter slips. This clears the quirk. Once stopped, enter 4LLc and turn **auto-mate** back on.

auto-mate does not operate in 4WD low range DRIVE, only SPORT mode. The factory ECU controls the transmission when DRIVE is selected.

auto-mate SPORT mode (low range)

In SPORT mode, **auto-mate** will lock the torque converter when the engine reaches between 1500-1900 RPM in 2nd gear (or per minimum gear selected in the configuration settings), and will hold the TCC locked until below 1200 RPM.

CAUTION

Our recommendation is to only use **auto-mate** in 4LLc condition when you either:

1. Need to manage transmission temperatures (eg, very long, steep climbs or sand driving); or
2. For improved engine braking down steep hills.

In off-road conditions the torque converter provides benefits, such as reduced driveline shock when dropping a lifted wheel, and improved low speed control.

Keeping the torque converter unlocked provides protection to the driveline under high dynamic load conditions.

In 4LLc, if emergency braking is conducted at very low RPM, the engine may stall. This is due to the TCC not being able to respond and unlock in a timeframe to avoid the stall.

Driving Tips

Less torque converter slip = fuel savings + lower heat

auto-mate works in both DRIVE and SPORT modes of the automatic transmission.

DRIVE Mode

Maximum automation – just set and forget. Let **auto-mate** change gears for you to optimise torque converter lockup, fuel efficiency and reduced transmission temperatures.

auto-mate locks the torque converter when in 2nd gear and at above 30 kph. It will then change gear when needed to keep it locked up. In low range 4WD (SPORT) it locks in 2nd gear when the engine is above 1900 RPM.

DRIVE mode provides fully automatic operation of **auto-mate** and will change gears with an adjusted gear shift profile suitable for a locked torque converter.

But, if you're finding the transmission is changing between 4th and 5th too often, use the 5th gear lockout feature, just double-click the LED to toggle this mode. Alternatively, use SPORT mode.

Want a SPORTIER feel? Adjust the shift profile up to your preference.

If you personally find auto-mate holds onto a gear too longer before changing down, adjust the shift profile up a little to your preference.

SPORT Mode (a Hybrid DRIVE/SPORT mode)

Because of the 1st gear quirk, the actual transmission must be in DRIVE mode to avoid this quirk behaviour (which forces use of 1st gear until 30 kph).

It essentially turns the transmission into a clutch-less manual. This thought should guide how to best drive the vehicle when in this mode.

To lockup during acceleration you can use SPORT mode to drive it like a manual transmission. Accelerate until the LED comes on, then allow the RPM to increase to >2000 before manually changing into a higher gear. The TCC will remain locked, and continue to manually up-shift (at >2000RPM) until the desired speed is reached and the LED stays ON. Down-select gears as you slow to keep the TCC locked.

Tips when driving in SPORT mode

- ✓ When driving gently, change gears at ~2000-2400 RPM. If accelerating quickly, around 3000 RPM.
- ✓ Experiment with RPM and load to determine the right time for the gear changes.
- ✓ Keeping the TCC locked improves vehicle responsiveness. When locked up, as soon as power is applied it goes straight to the road and there is no loss through the transmission.
- ✓ Watch for the blue LED flashing. If the torque converter clutch unlocks and the driver accelerates, **auto-mate** will flash the LED to remind the driver to down-select a gear (flashes only in 3rd gear or higher).

Use the Accelerator Pedal

In DRIVE mode, the driver can control how and when **auto-mate** changes gears by how much or little the pedal is pressed.

Cold Start

auto-mate does not activate until the transmission has reached the required operating temperature. The blue LED will pulse slowly (1 second intervals) while warming up. The LED does not pulse if **auto-mate** is switched off. The warmup temperature is adjustable. Once warm, the LED will illuminate when in SPORT mode.

Excessive Slip Alert

In SPORT mode, if the **auto-mate** LED flashes it is alerting you to change to a lower gear, or that there is excessive torque converter slip.

This is a reminder to manually select a lower gear.

If after changing down a gear and there is still excessive slip, momentarily reduce power and the torque converter will then lockup. This protects the clutch from wear.

Transmission 1st gear

By design, the AISIN transmission does not lock the TCC in 1st gear. (The exception is if the customer has purchased and installed a modified transmission valve body that specifically enables 1st lockup)

Improved engine braking

auto-mate will improve downhill engine braking. Select SPORT mode and an appropriate gear to increase the RPM to >2500.

It will not lock the TCC unless the RPM is above 1100, so if coasting downhill (800-900 RPM) you will need to increase the RPM to engage the TCC for lockup. This can be achieved by downshifting a gear in SPORT mode, or gently pressing the accelerator. Once the TCC has locked up, the increased RPM will be maintained.

Monitoring the Transmission Oil temperature

Monitoring your transmission oil temperature is recommended. Vehicles do not come with a transmission temperature gauge on the instrument display. Instead they have an over-temperature warning lamp. Unfortunately, when this lamp activates the oil is extremely hot and has been begun degrading.

You can monitor the transmission temperature using an after-market OBD2 reader such as an ELM327 and mobile phone, an UltraGaugeMX or a ScanGauge^{II}. These devices need to be programmed to read the temperature from the vehicle computer.

SafeLock™ - Clutch Protection Technology

Exclusive to MM4X4 is **SafeLock™**, which prevents excessive wear that may occur if the torque converter clutch is engaged under high slip conditions. The advanced digital control of **auto-mate** reads the real-time vehicle status it is able to determine the amount of slip in the torque converter. Using the same slip limits as the factory ECU, it will only engage the clutch when within this range giving maximum longevity and reliability of the clutch.

Under light acceleration, the lockup clutch will engage at a lower speed as there will be low slip. Under heavy acceleration it will lockup later as **SafeLock™** is delaying engagement until the slip is low again. If active in SPORT mode (LED flashing) the driver need only change down a gear or back off on the accelerator a little to reduce the RPM (slip) for the clutch to then engage (LED ON).

Operating Recommendations

<i>Driving Conditions</i>	<i>Recommendation</i>
City, country and highway	auto-mate ON Reason: Excellent protection from high transmission temperatures and better fuel economy. Use SPORT mode for better downhill engine braking.
Rocks and creek-beds	auto-mate OFF * * Leave OFF only unless the transmission oil becomes hot (eg, >80°C), then switch auto-mate ON when conditions are suitable to reduce the transmission temperature. Reason: The torque converter absorbs driveline shock caused by the highly variable nature of rock driving, eg, lifting/dropping wheels or hitting rock ledges.
Steep Hills (4L ascent)	auto-mate ON or OFF, Use SPORT mode Short Hills: Leave OFF unless the transmission oil becomes hot (eg, >80°C), then switch auto-mate ON to reduce the transmission temperature. To cool the transmission, use SPORT mode and climb in 2 nd gear where possible to allow the TCC to lockup. The transmission will not lockup in 1 st gear. Reason: The torque converter absorbs driveline shock, and releasing the torque converter enables higher RPM thus more turbo boost and power. Long Hills: Steep hill climbs will rapidly heat-up the transmission oil, so if conditions are suitable switch auto-mate ON and climb in 2 nd gear.
Steep Hills (descent)	auto-mate ON or OFF Typically, a 4L steep descent is conducted in 1 st gear. Since the transmission cannot not lockup in 1 st gear the use of auto-mate doesn't make a difference. For better 4H engine braking on the asphalt, switch auto-mate ON and use SPORT mode.
Sand (beach run at higher speeds >40kph)	auto-mate ON Use SPORT mode - ensure the blue LED stays on. Reason: Keep the transmission cool and better fuel economy

<i>Driving Conditions</i>	<i>Recommendation</i>
Sand (dunes and deep sand)	auto-mate ON or OFF
Mud	<p>OFF for short sections. If transmission oil becomes hot (eg, >80°C), then switch auto-mate ON to reduce the transmission temperature. Deep sand and mud are highly variable situations. When a deep section is entered more power is urgently needed to maintain momentum. The torque converter slippage allows the RPM to quickly increase for more turbo boost and power.</p> <p>ON for sustain deep sand driving to avoid high transmission temperatures. Use <u>SPORT</u> mode to choose an appropriate gear and keep the revs high so when it needs the power and the RPM drops, the engine is still at high turbo boost.</p>

LED/Switch

The LED/Switch has a blue LED in the centre. This is also a momentary switch which can be pressed.

Quick press and release to switch the unit on or off.

Press and hold or double click to access other features. The LED will respond according to the command.



LED Status Summary

LED Pulsing	Pulsing every second= (bright, dim bright, dim...) auto-mate is functioning correctly and waiting for the transmission to warm up
LED ON	The transmission is in SPORT mode and the driver is to change the gears.
LED OFF	Shift lever position: SPORT: The transmission is actually in DRIVE mode, and the driver cannot change gears until above 30kph (LED comes ON). DRIVE: LED is always OFF. When above 30kph the current gear is displayed in the instrument cluster (for driver information only) as auto-mate is changing the gears.
LED Flashing	In SPORT mode, the excessive slip alert to inform driver to change down a gear or reduce power momentarily to enable lockup clutch engagement.
Flickering	auto-mate ERROR condition. Flickers for 30 seconds, then auto-mate restarts. The auto-mate built in test has detected an abnormal condition. Press the LED to switch the unit off and contact MM4X4.

LED/Switch Commands (while driving)

Momentary push

Toggle **auto-mate** ON and OFF.

Short flash (0.5s) = OFF

Long flash (1.5s) = ON

Double-click

Toggle the 5th gear lockout mode

Used only in DRIVE mode. When active, only gears 1-4 are used. Useful when driving through hilly countryside to prevent unnecessary 4th – 5th – 4th gear hunting.

1 flash = OFF. (Gear 1-5 are used)

2 flashes = ON. (Only gears 1-4 are used)

Hold 5 seconds

Toggle LED night-time (headlights) override mode

When driving with your headlights on in the day-time, you can override the 'night mode' LED intensity (which is too dim).

Nighttime/Daytime LED intensity mode is linked to the headlights being on or off.

BRIGHT = LED is set to day-time brightness

DIM = LED brightness linked to headlights on or off

Hold 10 seconds

Toggle Clutch Protection Mode

2 flashes = OFF

5 flashes = ON [recommended]

Protection Mode (SafeLock™)

SafeLock™ clutch protection mode prevents engagement of TCC during high slip conditions to reduce wear on the clutch.

To toggle between the Protection Mode ON and OFF, press and hold the LED/Switch for 10 seconds when the engine is running.

The LED will respond with:

5 flashes – Protection Mode is **ON**

2 flashes – Protection Mode is **OFF**

SafeLock™ ON (default)

auto-mate will delay locking the torque converter until the amount of slip is low, using the same criteria as the factory ECU before engaging the clutch. This ensures the wear of the clutch when it engages is no different to normal factory operation, ensuring maximum life from the clutch.

SafeLock™ OFF

This mode is provided for customers who want more aggressive lockup clutch engagement and disengagement. The TCC will engage whenever the speed/RPM/Load conditions will allow.

It disables the slip limit engagement criteria and lockup engagement is now primarily determined by the sensitivity setting. The sensitivity adjustment can be used to adjust when the clutch will engage.

CAUTION

Switching SafeLock™ clutch protection OFF is for the advanced driver who specifically wants full control. This mode may cause more wear of the torque converter clutch compared to using the standard factory engagement limit, as the clutch can engage under high slip conditions, ie under medium to high load.

auto-mate stores the above parameters in non-volatile memory, so the setting is remembered between engine starts.


auto-mate Configuration Parameters


auto-mate allows the driver to modify the configuration settings. This mode can only be accessed when the ignition is ON and the engine is NOT running.

To enter configuration mode, place into SPORT mode and press LED/Switch.

1. **Gear shift profile**, ie increase or decrease the speeds when gear shifts will occur.
2. **Minimum gear** that lockup override will occur. Default is 2nd gear, i.e. it will lockup in 2nd, 3rd, 4th and 5th gears. The default of 2nd is recommended.
3. **LED brightness**. The LED brightness is adjustable separately for day and night viewing.
4. **Warm-up Temperature**. The transmission oil temperature before auto-mate operates. The default is 40 degC.

Enter configuration mode:

1. Turn ignition OFF.
2. Place the transmission shift lever into SPORT mode
3. Turn ignition ON
4.  Press the **auto-mate** LED/Switch, or to reset to factory defaults, press and hold for 10 seconds first.

You use shift lever plus(+) and minus(-) to adjust the parameter's value, and  Press LED/Switch for next parameter

Blue LED illuminates.

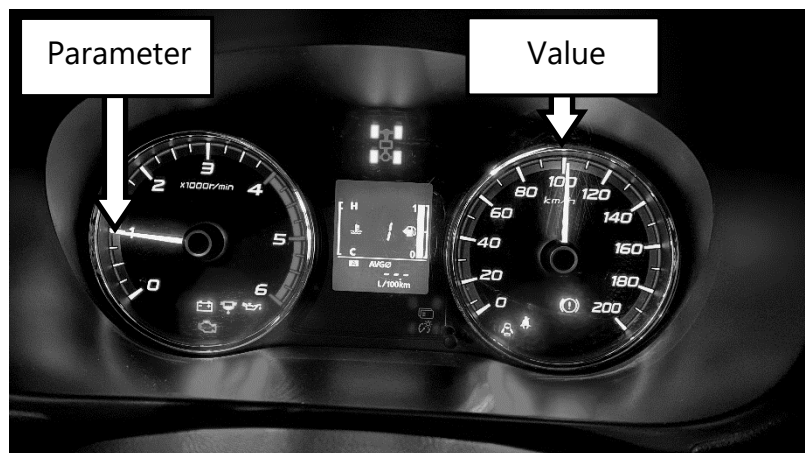
1. Gear Shift Profile

Default is 100.

For every increase or decrease of 10 kph, the shift point is adjusted by 100RPM for all gears.

Adjust using the transmission shift lever +/- (plus or minus)

Press LED/Switch (ie, next)



2. Minimum gear

Default is 2nd

Valid range is 10 to 50 =
(1st to 5th).

Use plus (+) and minus (-) to
adjust.

NOTE: The transmission from
factory does not lockup in 1st
gear.

Do not use 1st unless you
have an after-market valve
body fitted with the 1st gear
lockup modification;
otherwise it has no effect.



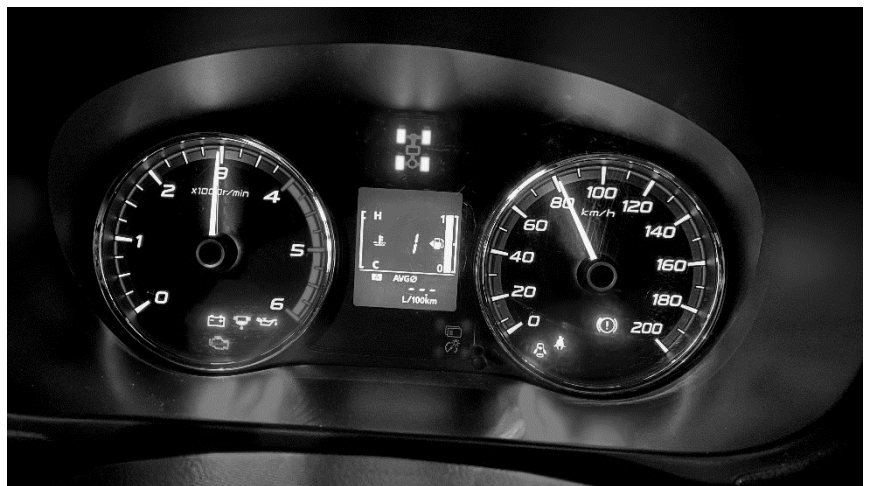
3. LED brightness

The LED brightness is
displayed, and the LED
intensity is adjusted to the
current value.

Use plus (+) and minus (-) to
adjust.

Use the headlights switch to
toggle between night-time
brightness and daytime
brightness.

Night-time brightness is best
adjusted when it's dark.



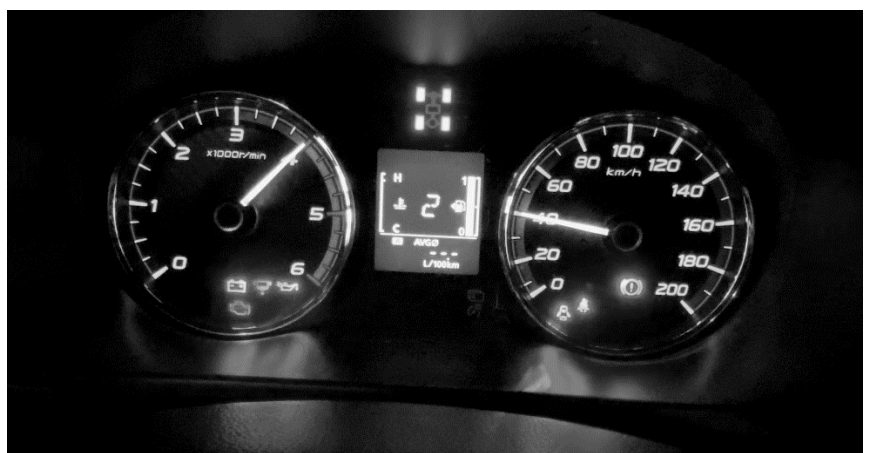
4. Warmup Temperature

The minimum temperature
before **lockup-mate**
activates. The temperature is
displayed on the speedo.
40kph = 40 °C.

Use plus (+) and minus (-) to
adjust.

The allowable range is
between 20°C to 100°C

The default is 40°C.



WARRANTY POLICY

MM 4X4 is committed to providing quality products to you and this policy outlines our warranty against defective products manufactured by MM 4X4.

MM 4X4 warrants our manufactured products against defects in workmanship or materials for the Warranty Period. The warranty does not cover damage due to normal wear and tear (for example marks and scratches). This warranty is not applicable to products re-sold by MM 4X4. Warranties for these products are defined by the manufacturer.

MM 4X4 accepts no liability for damage to the vehicle as a result of product installation or use.

Warranty Period

MM 4X4 warrants MM 4X4 manufactured products for a period of 12 months commencing from the date of purchase.

Warranty Entitlement

To be entitled to claim a warranty claim, the customer must:

1. Fit the product according to the provided installations instructions;
2. Provide evidence of purchase;
3. Return the faulty product to MM 4X4 for assessment against the Warranty Entitlement Exclusions; and
4. Make a claim within the Warranty Period.

Warranty Entitlement Exclusions

The Customer is not entitled to a warranty claim if:

1. The defect is the result of misuse, inappropriate use, incorrect installation, or installation into a vehicle not supported by the product; or
2. The product has been modified; or
3. The product housing has been opened; or
4. The product has been damaged.

Making a Warranty Claim

To make a warranty claim:

1. Contact MM 4X4 (enquiries@mm4x4.com.au) to discuss the claim;
2. If directed by MM 4X4, return the product to the address provided by MM 4X4 (at the customer's expense) and ensure the product is accompanied with the following information:
 - a. A copy of the proof of purchase;
 - b. The return merchandise authorisation (RMA) number provided by MM 4X4;
 - c. The customer's name and contact details;
 - d. A return shipping address.

Upon receipt of the faulty product, MM 4X4 will assess the claim against the Warranty Entitlement and Exclusions.

For valid warranty claims, MM 4X4 will repair or replace the goods and ship them (free of charge) to the provided shipping address.

For warranty claims that are assessed as invalid, MM 4X4 will contact the customer to seek further direction, which may include:

- a. Reasons for denying the warranty claim;
- b. A quote to repair the fault product;
- c. Returning the faulty or repaired product to the provided shipping address (at the customer's expense);
- d. Agreement to dispose of the faulty product; or
- e. A quote to supply a replacement product.

Warranty Complaints and Enquiries

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



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