2017 SRT DRIVE MODE SUPPLEMENT

Grand Cherokee

Jeep

Jeep

SRT DRIVE MODES

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UNDERSTANDING YOUR INSTRUMENT PANEL

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UCONNECT SETTINGS

SRT Performance Pages

Performance Pages is an application that provides a display for performance indicators, as received from the instrument cluster, that will help you gain familiarity with the capabilities of your SRT vehicle in real-time.

To access the SRT Performance Pages, press the "Apps" button on the touchscreen, then press the "Performance Pages" button on the touchscreen, or press "SRT Performance Pages" in the top left of the touchscreen while in Drive Modes. Press the desired button on the touchscreen to access that specific Performance Page.

WARNING!

Measurement of vehicle statistics with the SRT Performance Pages is intended for off-highway or off-road use only and should not be done on any public roadways. It is recommended that these features be used in a controlled environment and within the limits of the law. The capabilities of the vehicle as measured by the Performance Pages must never be exploited in a reckless or dangerous manner, which can jeopardize the user's safety or the safety of others. Only a safe, attentive, and skillful driver can prevent accidents.

The Performance Pages include the following:

- Home
- Timers
- Gauges 1
- Gauges 2
- G-Force
- Engine

The following describes each feature and its operation:

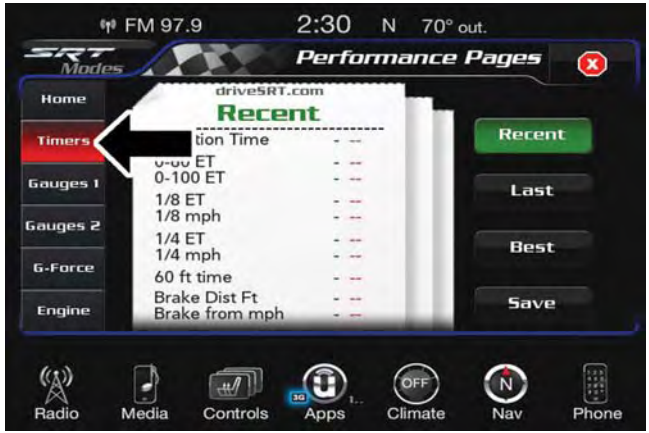
Home

Performance Pages — Home

When Home is selected, the following options will be available:

- A series of six images which can be selected by the user.
- A short-cut to the SRT Drive Modes feature.

Timers



Performance Pages — Timers

When the Timers Page is selected you will be able to select from following "Tickets":

Recent

- Pressing the "Recent" button displays a "real time" summary of performance timers.

Last

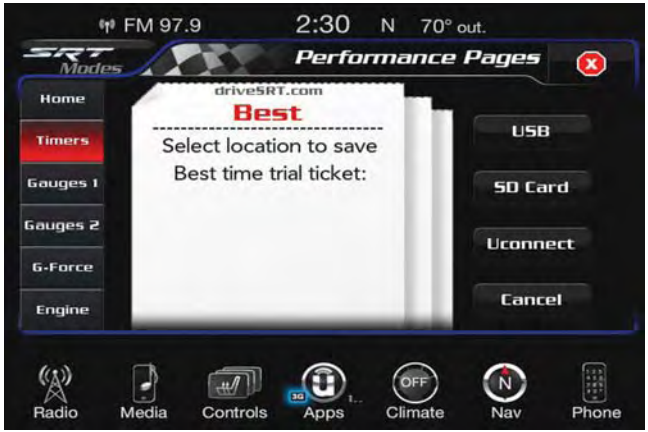
- Pressing the “Last” button displays the last recorded run of performance timers.

Best

- Pressing the “Best” button displays the best recorded run of performance timers, except for braking data.

Save

- Pressing the “Save” button will let you save the ticket currently being shown. Any saved run over ten, will overwrite the last saved run for Uconnect Radio System storage. The operation of the Save feature is listed below:



Performance Pages — Save

- With a USB jump drive installed, press the “USB” button to save runs to the jump drive.
- With an SD Card installed, press the “SD Card” to save runs to the SD Card.
- Press the “Uconnect” button to save the runs to the Owner web page.

NOTE: The Uconnect Owner's website will store up to ten timer runs. After ten have been saved, the system will begin to replacer the oldest entries with any newly performed entries.

- Press the "Cancel" button to view the previously displayed timer "Ticket."

The "Tickets" contain the timers listed below:

Reaction Time

- The reaction timer measures the time from a visual cue in the cluster to when the vehicle's speed is measured to be greater than zero.

⅛ Mile (200 meter)

- Displays the time it takes for the vehicle to go an ⅛ Mile (200 meters).

¼ mile (400 meter)

- Displays the time it takes for the vehicle to go an ¼ mile (400 meters).

60 ft time

- Displays the time it takes for the vehicle to go 60 ft.

Brake Distance

- Displays the distance it takes the vehicle to make a full stop. Contains current and last data for distance and start – from speed.

NOTE: The distance measurement will be aborted if the brake pedal is released before the vehicle comes to a complete stop.

Brake Speed

- Displays the speed the vehicle is traveling when the brake pedal is depressed.

NOTE: Brake Distance and Speed timers will only display "ready" when vehicle is traveling at greater than 30 MPH (48 km/h).

NOTE:

- Brake Distance and Speed timers will only display "ready" when vehicle is traveling at greater than 30 MPH (48 km/h).
- To clear the timer values, use the steering wheel controls while on the specific timer page in the instrument cluster.

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Gauges 1

SRT Performance Pages — Gauges 1

When selected, this screen displays the following values:

Coolant Temperature

- Shows the actual coolant temperature.

Oil Temperature

- Shows the actual oil temperature.

Oil Pressure

- Shows the actual oil pressure.

Gauges 2

SRT Performance Pages — Gauges 2

When selected, this screen displays the following values:

Intake Air Temp

- Shows the actual intake air temperature.

Battery Voltage

- Shows the actual battery voltage.

Transmission Temp

- Shows the actual transmission temperature.

G-Force

SRT Performance Pages — G-Force

When selected, this screen displays all four G-Force values (two lateral and two longitudinal) as well as steering angle.

When G-Force is selected, the following features will be available:

Lateral G-Force Left and Right

- The lateral g-force measures the (sideways) left and right force of the vehicle.

Longitudinal G-Force Acceleration and Braking

- The longitudinal g-force measures the acceleration and braking force of the vehicle.

Peak G-Forces Acceleration and Braking, Left and Right

- This shows the maximum g-forces that have been achieved since the last reset from the instrument cluster display. Peak values are maintained through ignition cycles by the instrument cluster display until they are cleared by the driver.

NOTE: To clear peak values, use the steering wheel controls while on the instrument cluster g-force page.

Vehicle Speed

- Vehicle Speed measures the current speed of the vehicle in either mph or km/h, starting at zero with no maximum value.

Steering Wheel Angle

- Steering Wheel Angle utilizes the steering angle sensor to measure the degree of the steering wheel relative to zero. The zero degree measurement indicates a steering wheel straight ahead position. When the steering angle value is negative, this indicates a turn to the left, and when the steering angle value is positive, a turn to the right.

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Engine

SRT Performance Pages — Engine

When selected, this screen displays the following values:

Vehicle Speed

- Shows the actual vehicle speed in mph or (km/h).

Instantaneous Power

- Shows instantaneous engine power in horsepower/kilowatts.

Instantaneous Torque

- Shows instantaneous engine torque in Pound Feet (lb/ft) or Newton-Meters (Nm).

Oil Pressure

- Shows actual oil pressure in Pounds per Square Inch (PSI) or Kilopascals (kPa).

Gear

- Shows the current (or pending) operating transmission gear of the vehicle.

SRT Drive Modes

Drive Modes — Track

Your SRT vehicle is equipped with a Drive Modes feature which allows for coordinating the operation of various vehicle systems depending upon the type of driving behavior desired. The Drive Modes feature is controlled through the Selec-Track switch and may be accessed by performing any of the following:

- Pushing the SRT button on the Selec-Track switch.
- Selecting "Drive Modes" from the "Apps" menu.
- Selecting "Drive Modes" from within the Performance Pages menu.

The SRT Drive Modes main screen displays the current drive mode and real-time status of the vehicle's performance configuration. The selectable Drive Modes are Track, Sport, Auto, Snow, Tow or Custom. Information shown will indicate the actual status of each system, along with a vehicle graphic that displays the active drive mode status. The color red indicates "Track," orange "Sport," yellow "Street" and blue for "Snow." These features will reset to AUTO upon an ignition cycle. If the system status shown does not match the current drive mode set up, a message will be displayed indicating which values are not matching the current mode.

NOTE: Electronic Stability Control (ESC) Full-Off is only available in Selec-Track TRACK mode and can be activated by pushing and holding the ESC Off button on the instrument panel switch bank for five seconds.

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Listed below are the available Drive Modes:

Track Mode

Drive Modes — Track

Selecting "Track" with the Selec-Track switch will activate the configuration for typical track driving. The Transmission, Stability Control, All-Wheel Drive, Steering, and Suspension systems are all set to their "Track" settings highlighted in red. The Paddle Shifters are enabled.

Sport Mode

Drive Modes (Sport)

Selecting "Sport" with the Selec-Track switch will activate the configuration for typical enthusiast driving. The Transmission, Stability Control, All-Wheel Drive, Steering, and Suspension systems are all set to their "Sport" settings highlighted in orange. The Paddle Shifters are enabled.

Tow Mode

Drive Modes - Tow

Selecting "Tow" with the Selec-Track switch will activate the configuration for towing a trailer or hauling heavy loads in the cargo area. Once in this mode, trailer sway control is enabled in the ESC system. The Transmission is set to "Tow" setting highlighted in purple. Stability Control is set to "Full" highlighted in blue. All-Wheel Drive is set to "50/50" highlighted in blue. Steering is set to "Street" highlighted in yellow. Suspension is set to "Sport" highlighted in orange.

Snow Mode

Drive Mode Snow

Selecting "Snow" with the Selec-Track switch will activate snow mode for use on loose traction surfaces. When in Snow mode (depending on certain operating conditions), the transmission will use second gear

(rather than first gear) during launches, to minimize wheel slippage. The Transmission is set to "Snow" setting highlighted in blue. Stability Control is set to "Full" highlighted in blue. All-Wheel Drive is set to "50/50" highlighted in blue. Steering is set to "Street" highlighted in yellow. Suspension is set to "Street" highlighted in yellow.

Paddle shifters can be enabled or disabled by pressing the "Snow Set-up" button on the touchscreen.

Snow Mode Set-Up

Auto Mode

Drive Mode Auto (Default)

Auto mode is enabled upon ignition on, or by selecting "Auto" with the Selec-Track switch. The Transmission, Stability Control and All-Wheel Drive modes are set to their "Street" settings highlighted in yellow. Steering and Suspension can be configured in either the "Street," "Sport," or "Track" and the Paddle Shifters may be enabled or disabled while in auto set-up mode.

Auto Mode Setup (Default)

Custom Mode

Custom Mode

Custom Mode may be selected by pushing the "Custom" button on Selec-Track switch. Custom Mode allows you to create a custom configuration that is saved for quick selection of your favorite settings. While in Custom Mode, the All-Wheel Drive, Stability Control, Transmission, Steering, Suspension, and Paddle Shifter settings are shown in their current configuration.

UNDERSTANDING YOUR INSTRUMENT PANEL

While in the Custom Mode screen, press the "Custom Set-Up" button on the touchscreen to access the selectable options. Select which mode suits your driving needs for a custom driving experience.

Custom Mode Set-Up

Custom Mode Set-Up Info

Within the Custom Mode Set-Up screen, press the "info" button on the touchscreen then use the left/right arrows to scroll through all the available Drive Mode systems giving you a description of their operation and current configuration.

All-Wheel Drive

All-Wheel Drive

Track

- Press the "Track" button on the touchscreen to provide the greatest distribution of torque to the rear wheels (70%.)

Sport

- Press the "Sport" button on the touchscreen to provide greater distribution of torque to the rear wheels (65%.)

Street

- Press the "Street" button on the touchscreen to provide moderate distribution of torque to the rear wheels (60%.)

50/50

- Press the "50/50" button on the touchscreen to provide even distribution of torque between the front and rear wheels.

Transmission

Eight Speed Transmission

Track

- Press the "Track" button on the touchscreen to provide the fastest shift speeds with the strongest comfort trade-off.

Sport

- Press the "Sport" button on the touchscreen to provide faster shift speeds with some comfort trade-off.

Street

- Press the “Street” button on the touchscreen to provide a balance of shift speed and comfort for typical daily driving.

Paddle Shifters

Paddle Shifters

ON

- Press the “ON” button on the touchscreen to enable steering wheel paddle shifters.

OFF

- Press the “OFF” button on the touchscreen to disable steering wheel paddle shifters.

Stability Control

Stability Control Settings

Track

- Pressing the "Track" button on the touchscreen will provide minimal stability control.

Sport

- Pressing the "Sport" button on the touchscreen will provide reduced stability control.

Street

- Pressing the "Street" button on the touchscreen provides full (default) stability control.

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Suspension

Suspension

Track

- Press the "Track" button on the touchscreen to provide the firmest possible suspension stiffness with the highest amount of comfort trade-off.

Sport

- Press the "Sport" button on the touchscreen to provide a firmer suspension stiffness with moderate comfort trade-off.

Street

- Press the "Street" button on the touchscreen to provide a balance of suspension stiffness and ride comfort for typical daily driving.

Steering

Steering

Track

- Press the “Track” button on the touchscreen to adjust the steering effort and feel to the greatest level.

Sport

- Press the “Sport” button on the touchscreen to adjust the steering effort and feel to a greater level.

Street

- Press the “Street" button on the touchscreen to balance the steering feel and comfort.

Race Options

Race Options

Press the "Race Options" button on the touchscreen while in the Drive Modes screen, to display the vehicle's Launch Control screen. Within Race Options, you can activate, deactivate, and adjust the RPM values for the Launch Control and Shift Light features.

Refer to "Shift Light" in this section for further information on shift light features.

Launch Control

WARNING!

Launch Mode is intended for off-highway or off-road use only and should not be used on any public roadways. It is recommended that this feature be used in a controlled environment, and within the limits of the law. The capabilities of the vehicle as measured by the performance pages must never be exploited in a reckless or dangerous manner, which can jeopardize the user's safety or the safety of others. Only a safe, attentive, and skillful driver can prevent accidents.

Activate Launch Control

Launch Control can be accessed by pushing the Launch button on the Selec-Track switch or pushing the SRT button on the Selec-Track switch then selecting the "Race Options" button on the touchscreen. Press the "Activate Launch Control" button on the touchscreen to activate the feature. Press the "Launch RPM Set-Up" to set the holding RPM. Launch Control can be turned on or off by either pushing the Launch Control button on the Selec-Track Swith, or by pressing the "Cancel Launch Control" button on the touchscreen.

NOTE: Launch RPM Set-Up cannot be accessed unless Launch Control is deactivated.

Launch RPM Set-Up

To adjust the Launch RPM, drag the slider bar or press the arrows on the touchscreen to adjust the holding RPM. The launch RPM limit is between 1500 and 3500 RPM.

For further information, refer to "SRT Drive Modes" in "Multimedia".

UNDERSTANDING YOUR INSTRUMENT PANEL

Shift Light

Shift Light In Paddle Shift Mode

Your vehicle is equipped with a shift light feature that illuminates the back lighting of the tachometer (in red) within the instrument cluster display. This feature is a visual cue to manually up-shift using the paddle shifters or shifting the transmission gear selector.

To actuate the Shift Light feature, press the "Shift Light" button on the touchscreen, then press the "Shift Light On" button on the touchscreen. Activation is shown on the instrument cluster display. Pressing the "Shift Light RPM Set-Up" button on the touchscreen will take you to the Shift Light RPM Set-Up screen.

NOTE: You must be in Paddle Shift Mode, or the transmission gear selector must be in manual shift in order to activate the shift light.

Shift Light RPM Set-Up

The Shift Light RPM Set-Up allows you to set the shift light to illuminate for gears 1, 2, 3, 4, and 5-8. Pressing and releasing the up/down arrow buttons above and below each listed gear, the RPM values will change in increments of 250 RPM. The Shift Light setup screen may only be accessed if the feature is enabled, press the "Reset to factory default" button on the touchscreen to change back to factory settings, or press the "Shift Light Off" button on the touchscreen to turn the system off completely.

Valet Mode

Valet Mode Activation

To enter Valet Mode press the "Valet" button on the touchscreen and a popup screen will ask you if you would like to enter Valet Mode, after selecting "Yes" you will be asked to enter a four digit PIN code. The PIN code is not predetermined, so you are free to select any four digit numeric combination that will be easy to remember.

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While in Valet Mode the following vehicle configurations are set and locked to prevent unauthorized modification:

- All-Wheel Drive is set to 50/50.
- Transmission locks out access to first gear and up-shifts earlier than normal.
- Stability Control, Steering, and Suspension are set to their STREET settings.
- Steering wheel paddle shifters are disabled.
- The Drive Mode interface is not available. Pushing the SRT button on Selec-Track switch will display the unlock keypad.
- The ESC Off button is disabled.
- The Launch Control button is disabled.
- Engine limited to a lowest power output state.

Valet Mode Deactivation

To exit Valet Mode you must enter the same four digit PIN that was used to enter the mode. The unlock keypad can be accessed by either pushing the SRT button on Selec-Track switch, or pressing the "Valet" button on the touchscreen.

Valet Mode Deactivation PIN

The Valet Mode Deactivation key pad will then prompt you for your four digit PIN code, enter your PIN code and press the "OK" button on the touchscreen. Your vehicle will return to the default state.

NOTE: If your four digit PIN is lost or forgotten, the vehicle will exit Valet Mode after a battery disconnect for approximately five minutes. Reconnect the battery and cycle the ignition to the RUN position, the vehicle will be in Auto Mode.

ECO Mode

Eco Mode

Push the ECO button on the center stack of the instrument panel to enter ECO mode. ECO mode modifies the vehicle's engine and transmission settings to provide improved fuel economy at a trade-off with acceleration performance. Increased engine exhaust noise and/or vibration may be noticed while ECO is active. This is normal and a result of the increased amount of operating conditions where the vehicle is allowed to operate in four cylinder shutoff mode.

- Changing the Drive Mode will deactivate ECO.
- ECO will be disabled when another Drive Mode is selected or ECO button is pushed.
- If ECO is activated in AUTO mode, it will remain in ECO upon activation of AUTO mode from any other mode including across key cycles. To deactivate press the ECO button again.

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LAUNCH CONTROL – IF EQUIPPED

This vehicle is equipped with a Launch Control system that is designed to allow the driver to achieve maximum vehicle acceleration in a straight line. Launch Control is a form of traction control that manages tire slip while launching the vehicle. This feature is intended for use during race events on a closed course where consistent quarter mile and zero to sixty times are desired. The system is not intended to compensate for lack of driver experience or familiarity with the race track. Use of this feature in low traction (cold, wet, gravel, etc.) conditions may results in excess wheel slip outside this systems control resulting in an aborted launch.

Preconditions:

- Launch Control should not be used on public roads. Always check track conditions and the surrounding area.
- Launch Control is not available within the first 500 miles (805 km) of engine break-in.
- Launch Control should only be used when the engine and transmission are at operating temperature.
- Launch Control is intended to be used on dry, paved road surfaces only.

CAUTION!
Use on slippery or loose surfaces may cause damage to vehicle components and is not recommended.

Launch Control is only available when the following procedure is followed:

NOTE: Pushing the SRT button on the Select-Track switch or pressing the “Apps” button on the touchscreen are the two options to access launch control features. Please refer to “SRT Drive Modes” in “Multimedia” for further information.

1. Press the “Race Options” button on the touchscreen or push the LAUNCH button on the Select-Track switch.
2. Press the “Launch RPM Set-Up” button on the touchscreen. This screen will allow you to adjust your launch RPM’s for optimum launch/traction.
3. Press the “Activate Launch Control” button on the touchscreen, follow instructions in the instrument cluster display.
    - Make sure the vehicle is not moving.
    - Put vehicle in first gear.
    - Steering wheel must be pointing straight.
    - Vehicle must be on level ground.

- Apply Brake Pressure.
- While holding the brake, rapidly apply the accelerator pedal to wide open throttle. The engine speed will hold at the RPM that was set in the “Launch RPM Set-up” screen.

NOTE: Messages will appear in the instrument cluster display to inform the driver if one or more of the above conditions have not been met.

Example Brake Pedal Pressure

4. When the above conditions have been met, the instrument cluster display will read “Release Brake”.
5. Keep the vehicle pointed straight.

Launch control will be active until the vehicle reaches 62 mph (100 km/h), at which point the Electronic Stability Control (ESC) system will return to its current ESC mode.

Launch control will abort before launch completion, display “Launch Aborted” in the cluster under any the following conditions:

- The accelerator pedal is released during launch.
- The ESC system detects that the vehicle is no longer moving in a straight line.
- The “ESC OFF” button is pressed to change the system to another mode.

NOTE: After launch control has been aborted, ESC will return to its current ESC mode.

CAUTION!
Do not attempt to shift when the drive wheels are spinning and do not have traction. Damage to the transmission may occur.

Guidelines For Track Use

CAUTION!

Because of the extreme conditions encountered during track use, any damage or wear associated with track use is not covered by warranty.

- If your SRT vehicle is equipped with Drive Modes they will alter the vehicle's performance in various driving situations. It is recommended that your vehicle operates in SPORT or TRACK modes during the track event.
- Prior to each track event/day, verify all fluids are at the correct levels. Refer to "Fluid Capacities" in "Technical Specifications" for further information.
- Prior to each track event, verify the front and rear brake pads have more than ½ pad thickness remaining. If the brake pads require changing, please burnish prior to track outing at full pace.
- At the conclusion of each track event, it is recommended that a brake bleed procedure is performed to maintain the pedal feel and stopping capability of your Brembo High Performance brake system.
- It is recommended that each track outing should end with a minimum of one cool down lap using minimal braking.
- All SRT vehicles are track tested for 24 hours of endurance, however, it is recommended that suspension system, brake system, prop shaft, and ½ shaft boots should be checked for wear or damage after every track event.
- Track usage results in increased operating temperatures of the engine, transmission, driveline and brake system. This may affect Noise Vibration Harshness (NVH) countermeasures designed into your vehicle. New components may need to be installed to return the system to the original NVH performance.
- Tire pressure:
  - Below 42 psi (289 kpa) hot and 33 psi (227 kpa) cold recommended.

NOTE: It is recommended that you target below 42 psi (289 kpa) Hot Tire Pressure at the conclusion of each track session. Starting at 33 psi (227 kpa) Cold and adjusting based on ambient & track conditions is recommended. Tire pressure can be monitored via the instrument cluster display and can assist with adjustments.

Track burnishing your brakes:

To avoid "green lining fade" during track use, the brake pads and rotors must have a thermal burnish for factory installed components or when new brake friction components are installed:

1. Use one track session to burnish brakes by driving at 75% speed. Brake at approximately 0.60 - 0.80g max without ABS intervention.
2. Lap the track in this manner until you start smelling the brakes. Continue for another ½ lap at speed, then do a two lap cool down with minimal brake applies. Make sure the brakes are not smoking. If they are, do another cool down lap.
3. Do not continue for more than one full burnishing lap after you start smelling the brakes. Do not get them smoking heavily. This will get them too hot and affect their life negatively in future track use.
4. Allow vehicle to sit and cool in the paddock for at least 30 min. If an infrared thermal gun is available, allow rotors to cool to 200 °F (93.3 °C) before going back out.
5. There should be a thin, ash layer when inspecting the pads installed in the caliper. Having the ash layer go more than half the thickness of the pad material indicates too aggressive of a burnish.
6. Sometimes, a second burnish session is required. If the pads start smelling in the next track session, reduce speed and braking decel to burnish targets and follow steps 2-4.
7. New pads installed on old rotors still need to be burnished. New rotors installed with old pads should be burnished at the track or street driven for 300 city miles to develop an adequate lining transfer layer on the rotor surface prior to track use.
8. Rotors that pulsate during track use should be replaced.

   NOTE: Resurfacing of the rotors is not recommended, as it removes mass from the rotor, reducing its thermal capacity. Resurfacing also thins the rotor cheek, making it less robust and increasing the likelihood of pulsation in further track use.

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DOWNLOAD A FREE ELECTRONIC COPY of the Owner's Manual and Warranty Booklet by visiting:

www.jeep.com/en/owners/manuals or
www.jeep.com/en/warranty (U.S.);
www.owners.mopar.ca/en (Canada).

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Grand Cherokee
Second Edition
SRT Drive Mode Supplement