

Observation Descriptions

SmartDrive Expert Review

July 15th, 2020



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Note: Observations and their descriptions can and do change over time as SmartDrive refines review rules to address new or evolving situations.

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Observation	Description
Collision with Animal	Identifies contact with an animal large enough to potentially cause damage to the vehicle.
Collision with Vehicle in Transport	Identifies contact with another vehicle that is either in motion or is stationary in the roadway. This observation also pertains to motorcycles that are in motion or stationary in the roadway.
Collision with Parked Vehicle	Identifies contact with another vehicle that is not in-transport and is either parked along the side of the roadway or is parked within a parking space.
Collision with Train	Identifies contact with any vehicle that is designed primarily to operate on a railway.
Collision with Pedalcycle	Identifies contact with another nonmotorized vehicle propelled by a person. For example: person riding a bicycle, tricycle, unicycle, pedal car.
Collision with Pedestrian	Identifies contact with a person.
Collision with Work Zone Equipment	Identifies contact with another motor vehicle that is related to the maintenance, construction or utility work occurring within a work zone.
Collision with Other Movable Object	Identifies contact with a moveable object other than a motor vehicle in transit, a pedestrian, another road vehicle in transit, a parked motor vehicle, a railway vehicle, a pedal cycle, an animal, or a fixed object.
Collision with Fixed Object	Identifies contact with anything that is fixed in position and not intended to be moved.
Collision with Unknown Object	Identifies contact with an object that cannot be determined due to limitations with video views, camera perspective, lighting, etc.
Collision Overturn (Rollover)	Identifies our vehicle has overturned at least 90 degrees onto its side.
Near Collision with Animal	Identifies instances where our vehicle came dangerously close to colliding with an animal large enough to potentially cause damage to the vehicle.
Near Collision With Vehicle in Transport	Identifies instances where our vehicle came dangerously close to colliding with another vehicle that is either in motion or is stationary in the roadway. This observation also pertains to motorcycles that are in motion or stationary in the roadway.
Near Collision with Parked Vehicle	Identifies instances where our vehicle came dangerously close to colliding with another vehicle that is not in-transport and is either parked along the side of the road or is parked within a parking space.
Near Collision with Train	Identifies instances where our vehicle came dangerously close to colliding with any vehicle that is designed primarily to operate on a railway.]

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Near Collision with Pedalcyde	Identifies instances where our vehicle came dangerously close to colliding with another nonmotorized vehicle propelled by a person. For example: person riding a bicycle, tricycle, unicycle, pedal car.
Near Collision with Pedestrian	Identifies instances where our vehicle came dangerously close to colliding with a person.
Near Collision with Work Zone Equipment	Identifies instances where our vehicle came dangerously close to colliding with another motor vehicle that is related to the maintenance, construction or utility work occurring within a work zone.
Near Collision with Other Movable Object	Identifies instances where our vehicle came dangerously close to colliding with a moveable object other than a motor vehicle in transit, a pedestrian, another road vehicle in transit, a parked motor vehicle, a railway vehicle, a pedal cycle, an animal, or a fixed object.
Near Collision with Fixed Object	Identifies instances where our vehicle came dangerously close to colliding with anything that is fixed in position and not intended to be moved.
Ran off Road	Identifies events that capture footage of both (a) a Near Collision or Collision and (b) our vehicle leaving the designated road surface.
Crossed Median/Centerline	Identifies events that capture footage of both (a) Near Collision or Collision and (b) our vehicle entering into the oncoming traffic lane.
Backing	Identifies our vehicle was actively backing up/reversing at the time of collision. This observation is only marked in conjunction with a collision.
Exceeded Maximum Fleet Speed	Identifies the vehicle speed exceeded the maximum speed threshold set for the fleet.
Attained Extreme Speed	Identifies the vehicle reached the extreme speed threshold set for the fleet.
Speeding (<=5 mph Over Limit)	Identifies the vehicle's speed exceeded the posted speed limit by 1 to 5 miles per hour for a duration of 3 or more consecutive seconds.
Speeding (6-10 mph Over Limit)	Identifies the vehicle's speed exceeded the posted speed limit by 6 to 10 miles per hour for a duration of 3 or more consecutive seconds.
Speeding (11-14 mph Over Limit)	Identifies the vehicle's speed exceeded the posted speed limit by 11-14 miles per hour for a duration of 3 or more consecutive seconds.
Speeding (15+ mph Over Limit)	Identifies the vehicle's speed exceeded the posted speed limit by 15 miles per hour or greater for a duration of 3 or more consecutive seconds.

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Observation	Description
Competitive/Aggressive Driving	Identifies our driver is either (a) competing for lane control by accelerating, swerving, and/or quickly braking to prevent or block another road user from travelling ahead or changing lanes or (b) using the horn excessively and unnecessarily towards another road user for 3 or more consecutive seconds.
Curb Check/Jumped Curb	Identifies unnecessary tire contact with a curb edge at low speeds (less than or equal to 20mph).
Driving the Wrong Way - On Roadway	Identifies our vehicle is moving forwards in the opposite direction of traffic on any paved road intended for public traffic that is not within the immediate vicinity of a parking lot area.
Driving the Wrong Way - Off Roadway	Identifies our vehicle is moving forwards in the opposite direction of traffic on any unpaved/dirt/gravel road or any paved road that is in the immediate vicinity of a parking lot, client area, or other off road area.
Lane Departure/Straddling Lanes	Identifies the vehicle was within one lane, drifted partially into the adjacent lane for a minimum duration of 3 consecutive seconds, then returned back into the original lane while the vehicle speeds were above 20mph.
Unsafe Lane Change/merging/passing	Identifies the following situations: (1) crossing over a double solid yellow centerline road marking to pass in front of another moving vehicle (2) using the shoulder lane to pass another moving vehicle that is on the main traveled portion of the roadway, (3) taking the vehicle off of the paved road surface to pass other traffic, (4) changing lanes too closely behind another vehicle, (5) entering into or crossing a gore zone (6) entering into or crossing a breakdown/emergency shoulder lane while merging from an "on-ramp", (7) crossing 2 solid lines while entering or exiting a carpool lane, (8) changing lanes without first checking the mirror(s), (9) continuing straight from a turn only lane while within an intersection, (10) changing lanes without signaling (active safety only).
Unsafe Backing	Identifies our vehicle was reversing on a controlled-access highway, through a crosswalk, or if the mirrors were not checked prior to reversing.
Unsafe Braking	Identifies either 1. a braking force that registers less than or equal to -.50 FG within 2 seconds from the initial moment of braking, or 2. stopping too closely behind another vehicle or pedestrian (active safety only).
Unsafe Railroad Crossing	Identifies our driver either (a) does not stop prior to crossing in accordance with federal regulations (for buses only), (b) crosses the tracks while the warning signals are flashing red, (c) crosses the tracks while the railroad gates are lowering/lowered, or (d) stops the vehicle on the tracks.

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Observation	Description
Unsafe Turning	Identifies our driver either (a) turns against a prohibited sign, (b) attempts to or completes a U-Turn by turning across the center median area of a controlled access divided highway, (c) attempts to or completes a turn by turning across one or more travel lanes PRIOR to crossing the center of the roadway or PRIOR to reaching a side roadway/driveway, (d) turns from non-turning lane while within an intersection, (e) activates a Roll Prevention trigger and/or RED/Brakes Active Safety Roll Stability warning while turning or while driving on a curved road, or (f) exceeds +/- .70 SG while turning.
Driving with Two Hands off Wheel	Identifies the driver has both hands off of the steering wheel for a duration of 3 or more consecutive seconds while the vehicle is moving greater than 20mph.
Unattended Moving Vehicle	Identifies the vehicle is rolling forwards or reverse without a driver seated in the driver's seat.
Failure to attempt stop at stop sign	Identifies the vehicle did not stop prior to entering the stop sign intersection and proceeded into the intersection at speeds greater than 10mph.
Incomplete stop at stop sign	Identifies the vehicle did not stop prior to entering the stop sign intersection and proceeded into the intersection at speeds greater than "low speed" but less than or equal to 10mph.
Failure to attempt stop at light	Identifies our vehicle did not stop prior to entering the intersection of a steady red traffic light and either (a) turned at the closest corner of the intersection at speeds greater than 10mph or (b) proceeded completely across to the opposite side of the intersection (regardless of speed).
Incomplete stop at light	Identifies our vehicle did not stop prior to entering the intersection of a steady red traffic light and either (a) turned at the closest corner of the intersection at speeds greater than "low speed" but less than or equal to 10mph, or (b) stopped within the intersection and did not proceed completely across to opposite side of the intersection.
False Start	Identifies our vehicle was stopped prior to entering the intersection of a steady red traffic light but then proceeded straight ahead into the intersection or turned across lanes of oncoming traffic to reach the opposite side of the intersection while the light was still red.
Failure to yield to pedestrian(s)	Identifies our driver did not stop for a crossing pedestrian(s) who had the right of way and was within a crosswalk that was located away from a stop sign or traffic signal intersection.

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Observation	Description
Failure to yield to vehicle(s)	Identifies instances where our driver rapidly braked or swerved to avoid an oncoming vehicle(s) that had the right of way at a roundabout intersection or yield only intersection.
Not Checking Mirrors	Identifies the driver did not check the mirror(s) prior to moving the vehicle either away from the curbside, into an adjacent travel lane, or in reverse.
Not Scanning Intersection	Identifies either 1. our driver rapidly braked or swerved to avoid vehicle or pedestrian traffic that had the right of way at a stop sign intersection, green or yellow traffic signal intersection, or crosswalk located at an intersection, 2. our driver responded late and abruptly to stopping/stopped traffic ahead in our driver's lane that was within an intersection.
Not Scanning Road Ahead	Identifies our driver responded late and abruptly to significantly slowed/stopped traffic ahead in our driver's lane that was not within an intersection.
Unsafe Following	Identifies our driver maintained a following distance of either (a) .25-1.00, (b) 1.25-2.00, (c) 2.25-3.00, or (d) 3.25-4.00 seconds, for a duration of at least 7 consecutive seconds while the vehicle speeds were greater than 20mph.
Mobile Phone - Texting/Dialing	Identifies either of the following while the driver is holding a mobile phone and the vehicle is in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign: (a) driver looking once at the mobile phone for a duration of 2 or more consecutive seconds or (b) driver glancing 3 or more times at the mobile phone within any 6 second time span.
Mobile Phone - Talking (Handheld)	Identifies the driver speaks into a handheld mobile phone or holds a handheld mobile phone up to the ear silently for a minimum duration of 2 consecutive seconds while the vehicle is in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign.
Mobile Phone - Talking (Hands Free)	Identifies the driver was having a mobile phone conversation through an earpiece/headset for a minimum duration of 2 consecutive seconds while the vehicle is in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign.
Mobile Phone - Possession	Identifies the driver was in possession of a mobile phone (either in hand, or lap area) while the vehicle is in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign

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Operating Other Mobile Device	Identifies any of the following driver interactions with an electronic mobile device other than a mobile phone while the vehicle is in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign: (a) looking once at the device for a minimum duration of 2 consecutive seconds, (b) glancing 3 or more times the device within any 6 second time span, or (c) having a conversation through the device for a minimum duration of 2 consecutive seconds.
Earphone/Headphone (wired or wireless)	Identifies the driver was wearing earphones/headphones that covered (or were within) one or both ears, while the vehicle was in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign.
Paperwork	Identifies either of the following while the vehicle is in motion: (a) driver looking once at the paperwork for a duration of 2 or more consecutive seconds or (b) driver glancing 3 or more times at the paperwork within any 6 second time span.
Other Task	Identifies one of the following occurred for 2 or more consecutive seconds while the vehicle was in motion: (a) the driver reached their hand down to the floor in front of or behind the passenger seat by bending at the waist and leaning over towards the passenger seat, (b) the driver looked down or up away from the road at something within the vehicle or on their person, or (c) the driver held a portable object(s) with both hands.
Beverage	Identifies the driver was holding a beverage container (cup/bottle/can) for 2 or more consecutive seconds while the vehicle is in motion.
Food	Identifies the driver was holding an item of food for 2 or more consecutive seconds while the vehicle is in motion.
Grooming/Personal Hygiene	Identifies the driver engaged in a grooming/personal hygiene activity for 2 or more consecutive seconds while the vehicle is in motion.
Passenger(s)	Identifies that for 2 or more consecutive seconds while the vehicle was in motion, our driver was either (a) in physical contact with a passenger or (b) was looking at a passenger.
Smoking	Identifies the driver was in possession of an item intended for purposes of smoking for 2 or more consecutive seconds while the vehicle is in motion.
Drowsy/Falling Asleep	Identifies the driver's eyes were closed for 3 or more consecutive seconds while the vehicle was in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign.

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Yawning	Identifies the driver opened his/her mouth wide and took a deep breath while the vehicle was in motion, momentarily stopped in traffic, or momentarily stopped at a stop light/sign.
Driver Seatbelt Unfastened (≤ 20 mph)	Identifies the driver's seatbelt is either completely unfastened or is improperly fastened for 3 seconds or longer while the vehicle speed is less than or equal to 20mph.
Driver Seatbelt Unfastened (>20 mph)	Identifies the driver's seatbelt is either completely unfastened or is improperly fastened for 3 seconds or longer while the vehicle is greater than 20mph.
Passenger Seatbelt Unfastened	Identifies the front seat passenger's seatbelt is either completely unfastened or is improperly fastened for 3 seconds or longer and the vehicle speed is greater than 20mph.
Rude Gesture	Identifies video of the driver displaying his/her middle finger to (a) other road users, (b) passengers and/or (c) the SmartDrive camera.
Raised Voice	Identifies the driver is shouting/yelling at non-employee passengers and/or directly to other road users.
Captured Passenger Incident	Identifies video of either (a) dangerous/unruly behavior between passengers or driver/passenger or (b) a passenger falling down inside the vehicle.
Captured Roadway Incident	Identifies video of a hazardous event occurring outside of the vehicle. For example: Unrelated accidents, physical altercations.
Dropped Trailer	Identifies instances where the trailer disconnects and drops/falls down either onto or completely off of the backend of the truck
Obstructed View of Driver	Identifies a significantly limited view of the driver is existing throughout the entire video due to the presence of an object/substance positioned on or in front of the camera lens.
Obstructed Exterior View	Identifies a significantly limited view of the surrounding environment is existing throughout the entire video due to the presence of an object or substance in front of the lens or against the windshield.
Tampering/Abusing Equipment	Identifies the driver or passenger either (a) physically alters the camera view away from its properly mounted position, (b) places a foreign object over/on the camera to block the view(s), or (c) physically strikes the camera Tampering/Abusing Equipment only identifies "caught in the act" events.

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Suboptimal Camera Position	Identifies one or both views are either (a) angled too high/low, or too far left/right of the roadway or driver, (b) capturing footage while dangling/hanging, or (c) upside down.
Non-Performing Camera	Identifies the presence of a hardware issue affecting one or both of the views.

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