

1 19A NCAC 03D .0523 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0523 OPERATION OF SAFETY OR EXHAUST-EMISSIONS INSPECTIONS STATIONS**

4  
5 (a) The following information concerns posting requirements for Safety or Emissions Inspections Inspection  
6 Stations shall post the following information: Stations: Posting information:

7 (1) Each station shall display in a conspicuous place the following: Official Safety Equipment or  
8 Safety Equipment Emissions Inspection Procedure Poster;

9 (A) Official Safety Equipment or Safety Equipment Exhaust Emissions Inspection Procedure  
10 Poster;

11 (B)(2) Safety Equipment or Safety Equipment Exhaust-Emissions Inspection Station License,  
12 which shall be posted under a material that protects the information contained on the  
13 license from dirt and facing; License;

14 (C)(3) All inspection mechanic-Mechanic licenses report issued by the North Carolina Division  
15 of Motor Vehicles; and

16 (D)(4) On the outside of its building or immediately adjacent thereto-thereto, a sign in block  
17 letters at least four inches in height bearing the words: OFFICIAL INSPECTION  
18 STATION.

19 (2) Station licenses shall be posted [under a protective material.] in a frame under glass.

20 (b) Periodic-Requirements for Licensed Inspection Mechanic. At reasonable times, licensed-Licensed inspection  
21 mechanics may be periodically required by authorized law enforcement officers of the Division to demonstrate  
22 knowledge pertaining to the Safety Equipment or Safety Equipment Exhaust-Emissions inspections in the presence  
23 of any such authorized officer.

24 (c) Location. Inspections shall be conducted only at the location shown on the inspection station's license and only  
25 in the designated inspection area. Trailers may be inspected outside of inspection area as long as they are attached to  
26 the engine unit.

27 (d) Vehicle presented to be inspected. Each station shall inspect any vehicle presented for inspection according to  
28 the year model, and type of engine except as provided in this section or when exempted from the emissions  
29 inspection by a waiver issued by the Commissioner of Motor Vehicles, Vehicles or his designated agent. [Office,  
30 Stations without the proper equipment required to inspect a motorcycle or a heavy duty vehicle is-are not required to  
31 conduct the inspection.

32 (e) Repairs. Inspection stations shall not in any manner attempt to require owners or operators of disapproved  
33 vehicles to have the vehicles repaired at the inspection station. The repairs The owner or operator of a vehicle that  
34 has failed inspection, may obtain the necessary repairs to pass an inspection for approval may be made at any place  
35 he or she chooses, chosen by the owner or operator of the vehicle. Inspection stations shall not require unnecessary  
36 repairs or in any manner attempt to require owners or operators of disapproved vehicles to have a vehicle repaired at

1 ~~the inspection station.~~ Permission must be obtained before making any repairs or adjustments. ~~Requiring~~  
2 ~~unnecessary repairs is prohibited.~~  
3 (f) Hours of operation. ~~Each licensed~~ Except for State holidays, as set forth in 25 NCAC 01E .0901, each public  
4 station must be open for at least eight ~~normal~~ business hours, five days per week. Hours of operation must be posted  
5 ~~[in a conspicuous place] outside of the business. [Closures on official ]Official State holidays are~~ ~~excepted.~~  
6 ~~[accepted.]~~ A licensed inspection mechanic shall be on duty to conduct inspections during ~~the hours of~~  
7 ~~operation specified.~~

8  
9 *History Note:* Authority *G.S. 20-2; 20-39; 20-183.4; 20-183.5;*  
10 *Eff. October 1, ~~1994~~.1994;*  
11 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0525 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0525 PRE-INSPECTION REQUIREMENTS**  
4

5 Prior to performing an inspection, the inspection mechanic shall:

- 6 (1) Have all occupants leave the ~~vehicle.~~ vehicle;
- 7 (2) ~~Request that~~ Require the operator ~~to~~ produce the current registration card ~~to~~ for the ~~vehicle.~~ vehicle;
- 8 (3) ~~Print or write legibly, use a ball point pen, and~~ Indicate list List the license plate number, serial  
9 number, mileage, number of cylinders, make, year and Enter applicable information in all data  
10 fields prompted by the [system ] other required information for the vehicle on the [approved]  
11 analyzer or inspection program and as needed to conduct the classification of inspection, safety, or  
12 safety and emissions. The use of a [computer program.] Receipt  
13 and Statement (Form No. SI 15) if the inspection is performed by the safety equipment inspection  
14 mechanic. If the vehicle does not have a license plate, "none" [none ] shall be indicated. If inspected  
15 for a dealership, the dealer sticker number shall be indicated. [indicated, followed by a D; and]
- 16 (4) ~~Enter all information if the inspection is performed by the safety equipment exhaust emission~~  
17 inspection mechanic as [prompted ] requested by the analyzer. All vehicle identification numbers  
18 entered into the NCAS 90 analyzer shall be entered through a one-dimensional [ID ] "one-  
19 dimensional" (ID)-bar-code scanner capable of reading vehicle identification numbers and  
20 information printed on vehicle registration shall be used for data entries to reduce errors. cards. A  
21 station's failure to maintain an operating bar code scanner shall result in DMV suspending a  
22 station's inspection operations until the station has a properly functioning bar code scanner. In the  
23 event the barcode on the registration card vehicle identification number is not readable or the  
24 vehicle owner is unable to produce a by the bar code scanner or is not printed on the registration  
25 card, the inspector mechanic station shall enter the information by scanning the public vehicle  
26 identification number through the vehicle windshield or on the Federal Certification Label, off of  
27 the driver side door or door post. If the vehicle identification number cannot be scanned through  
28 any of the methods listed in this rule, [Rule,]Item, or if the station is not equipped with a bar code  
29 scanner, it may be the inspector mechanic shall manually entered enter the VIN by entering the  
30 vehicle identification number correctly twice through manual-keyboard entry. In instances where  
31 the vehicle does not have a license plate, "none" shall be entered in the field. If the inspected  
32 vehicle is owned by a dealership and part of the dealer's inventory, the dealer number, followed by  
33 a "D" shall be entered in the license plate field. Stations must achieve a match rate to the  
34 registration data base of [95 percent ]95% or greater. Failure to maintain a [95 percent ]95% match  
35 rate for more than three months of a calendar year shall result in a Type II penalty.

36  
37 *History Note: Authority G.S. 20-2; 20-39; 20-183.2; 20-183.6A;*

1                   *Eff. October 1, 1994;*  
2                   *Codifier determined that agency did not meet criteria for temporary rule Eff. September 24, 1997;*  
3                   *Temporary Amendment Eff. November 1, 1997;*  
4                   *Amended Eff. August 1, ~~1998-1998~~;*  
5                   *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0526 is amended as published in 35:17 NCR with changes as follows:

2  
3 **19A NCAC 03D .0526 SAFETY EQUIPMENT, EMISSIONS INSPECTION, AND EMISSION CONTROLS**  
4 **TAMPERING EVALUATION~~EQUIPMENT GRADING ITEMS~~**

5 ~~The authorized~~ During the safety or safety and emissions equipment inspection of a vehicle, the inspection mechanic shall  
6 approve or disapprove each inspected item. The ~~enter the following information set forth in this Rule into the analyzer or~~  
7 inspection program when evaluating the condition of each inspected item: ~~requirements shall apply:~~

8 (1) Safety and emission inspection grading:

9 ~~(1)(a) If the item inspected is~~ For those items that are inspected, approved, and in operational  
10 condition, the letter "P" for "passed" approved, a [ P ] ~~check shall be placed in the~~  
11 appropriate block as indicated on the SI-15 form by the inspection analyzer.

12 ~~(2)(b) If the item inspected is not approved, an "X" [ F ]~~ For those items that are inspected and not  
13 approved, the letter "F" for "failed" shall be placed in the appropriate block as indicated on the  
14 SI-15 form by the inspection analyzer.

15 ~~(3)(c) If the disapproved item is corrected during inspection, [ C ]~~ For those items that were not  
16 approved and corrected, the letter "C" for "corrected" shall be placed in the appropriate block  
17 as indicated by the inspection analyzer. ~~the appropriate block in "corrected during inspection"~~  
18 ~~shall be checked as indicated on the SI-15 form.~~

19 (d) For those items that do not apply to the vehicle inspected, the letter "N" for "not applicable"  
20 shall be placed in the appropriate block as indicated by the inspection analyzer.

21 (2) Emission controls tamper check:

22 (a) For those vehicles inspected and not originally equipped with the emission control devices as  
23 listed, "Not Applicable" shall be indicated.

24 (b) For those vehicles equipped with the item, it is connected, and in operable condition, "Passed"  
25 shall be indicated.

26 (c) For those vehicles that the required emission control equipment has been disconnected,  
27 removed, made inoperable, or if emission component simulators are installed, "Failed" shall be  
28 indicated.

29 (d) For those vehicles that the emission equipment that was disconnected, removed, or inoperable  
30 is repaired or replaced, "Corrected" shall be indicated.

31  
32 *History Note: Authority G.S. 20-2; 20-39; 20-183.2; 20-183.4D; 20-183.6A;*  
33 *Eff. Oct. 1, 1994;*  
34 *Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff. September 22,*  
35 *2018-2018;*  
36 *Amended Eff. October 1, 2021.*  
37

1 19A NCAC 03D .0527 is readopted as published in 35:17 NCR 1943-1946 and is now being repealed as follows:

2

3 **19A NCAC 03D .0527 EXHAUST EMISSION CONTROLS TAMPERING CHECK**

4

5 *History Note: Authority G.S. 20-2; 20-39; 20-183.4D; ~~20-183.5;~~*

6 *Eff. October 1, ~~1994~~1994;*

7 *Repealed Eff. October 1, 2021.*

1 19A NCAC 03D .0528 is readopted as published in 35:17 NCR 1943-1946 and is now being repealed as follows:

2

3 **19A NCAC 03D .0528 SAFETY EQUIPMENT EXHAUST EMISSION INSPECTIONS**

4

5 *History Note: Authority G.S. 20-2; 20-39; 20-183.2; 20-183.4D; 20-183.6A;*

6 *Eff. October 1, ~~1994~~1994;*

7 *Repealed Eff. October 1, 2021.*

1 19A NCAC 03D .0529 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0529 CERTIFICATION**

4  
5 When the vehicle ~~has been~~ receives a passing inspection result, approved, the Inspection ~~inspection mechanic~~ shall:  
6 ~~[following shall to occur:]~~

- 7 (1) — Prepare the appropriate sticker (safety equipment or safety equipment/exhaust emission) for  
8 affixing to the vehicle.  
9 (2) — Remove the old inspection sticker from the windshield.  
10 (3) — Follow the instructions on the "Inspection Sticker."  
11 (4) — Place the "Inspection Sticker" on the inside of windshield at the bottom of the left side so that the  
12 edge of the sticker is no more than one inch from the left side of the windshield. Platforms are  
13 required for glass plastic windshields.  
14 (5) — For vehicles without windshields, issue motorcycle/trailer stickers or non windshield  
15 safety/emission stickers. The sticker shall be placed on the left side of vehicle as near the front as  
16 possible.  
17 (6)(1) List the total inspection repair charges made, if any, on the "Receipt and Statement" form along  
18 with the serial number of the inspection sticker which was attached to the inspected vehicle. ~~A~~  
19 ~~Safety Equipment [On Board Diagnostic (OBD)]Exhaust Emission[ An ]inspection mechanic~~  
20 ~~[Inspection Mechanic shall] finalize the inspection process in must enter all required information~~  
21 ~~into the analyzer, analyzer or inspection program by entering all required data, then following the~~  
22 ~~steps necessary to transmit the data to the State vehicle inspection database;~~  
23 (7)(2) ~~Collect~~ collect fees as described in G.S. ~~20-183.7, 20-183.7; and~~  
24 (8)(3) ~~Sign~~ sign and give the original of the "Receipt and Statement" ~~Receipt and Statement~~ form to the  
25 operator or owner.  
26

27 *History Note: Authority G.S. 20-2; 20-39; 20-183.4D; 20-183.7;*  
28 *Eff. October 1, 1994.*  
29 *Readopted Eff. October 1, 2021.*



1 19A NCAC 03D .0530 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2

3 **19A NCAC 03D .0530 DISAPPROVAL**

4

5 If a vehicle inspected is disapproved, the inspection mechanic at the end of the total inspection shall advise the  
6 owner or operator of the defect or defects found during the inspection. Repairs ~~may~~ shall only be made at the request  
7 of the ~~owner or operator, owner/operator.~~ Upon completion of authorized repairs, the inspection mechanic shall  
8 require the owner or operator of the vehicle that gave approval for the repairs to sign the inspection receipt, follow  
9 the certification process. If the owner or operator requests the repairs to be made at some other location, then the  
10 inspection mechanic conducting the inspection shall:

- 11 (1) ~~Provide Complete the customer with the Vehicle Inspection Report and Statement~~ Receipt and Statement ~~report~~ signed  
12 by the inspection ~~mechanic;~~ mechanic ~~Receipt and Statement~~ "Receipt and Statement" showing the vehicle was  
13 "~~disapproved~~" Failed, and signed by the inspection mechanic.
- 14 (2) Collect fees as prescribed in G.S. ~~20-183.7; and~~ 20-183.7.
- 15 (3) After giving the owner or operator the original copy of the Vehicle Inspection Receipt and  
16 Statement ~~receipt/Statement~~ "Receipt and Statement" explain to the owner or operator  
17 ~~owner/operator~~ he or she has 30-60 days to bring the vehicle back to the inspection station for  
18 reinspection at no charge when the vehicle was disapproved for either safety or emissions defects.

19

20 *History Note:* Authority G.S. 20-2; 20-39; 20-183.4D; 20-183.5; 20-183.7;  
21 *Eff. October 1, 1994.*  
22 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0531 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2

3 **19A NCAC 03D .0531 REINSPECTION**

4

5 (a) ~~Payment of the~~ A vehicle that is inspected at an inspection station and fails is entitled to be reinspected at the  
6 same station any time within 60 days of the failed inspection without paying another inspection fee. ~~fee at the time of~~  
7 ~~the original inspection by the owner or operator of a [failed ]"disapproved" vehicle entitles the vehicle to~~  
8 reinspection, free of charge, by the initial inspection station.

9 (b) If the vehicle is approved following reinspection, the inspection mechanic shall check the appropriate block on  
10 the analyzer ~~in the "Reinspected and Approved" column on the SI-15 (Receipt and Statement form), and indicate the~~  
11 ~~date of reinspection.~~ The inspection mechanic shall issue the correct "Inspection Sticker" and collect the sticker  
12 authorization fee as set forth prescribed in G.S. 20-183.7.

13

14 *History Note: Authority G.S. 20-2; 20-39; 20-183.3(c); 20-183.7;*

15 *Eff. October 1, ~~1994~~.1994;*

16 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0532 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0532 BRAKES**

4  
5 No vehicle brakes shall be approved for an inspection ~~sticker~~ unless the items indicated in this Rule are inspected  
6 and found to meet the minimum requirements established in G.S. 20-124 and this Rule.

7 (1) Footbrakes shall not be approved if:

- 8 (a) ~~When when~~ applying brakes to the moving vehicle, the braking force is not distributed  
9 evenly to all wheels originally equipped with brakes by the manufacturer.  
10 ~~manufacturer; (TheThe~~ inspection mechanic must drive the vehicle to make this test. The  
11 inspector may check the brakes while driving vehicle forward into the inspection  
12 area.)
- 13 (b) ~~There there~~ is audible indication (metal on metal) that the brake lining is worn to the  
14 extent that it is no longer ~~serviceable.~~ serviceable; ~~(TheThe~~ wheel must be pulled and the  
15 brake lining examined when this occurs.)
- 16 (c) ~~Pedal pedal~~ reserve is less than 1/3 one third of the total possible travel when the brakes  
17 are fully applied, or does not meet the manufacturer's specification for power brakes or  
18 air ~~brakes.~~ brakes;
- 19 (d) ~~The the~~ reservoir of the master cylinder is not ~~full.~~ full; Only (Only brake fluid meeting  
20 SAE specifications for heavy duty hydraulic brake fluid shall be used when adding or  
21 changing brake fluid.)
- 22 (e) ~~There there~~ is a visible leakage or audible seepage in hydraulic, vacuum or air lines and  
23 cylinders, or visible cracked, chafed, worn, or weakened hoses. ~~hoses. [brake lines and~~  
24 hoses, then there must be of a type approved for a motor vehicle use;]
- 25 (f) ~~The the~~ vehicle has any part of the brake system removed or disconnected, the brake lines  
26 and hoses do not meet the manufacturer's specifications, or are made of a material not  
27 approved for motor vehicles; or disconnected. [disconnected; and]
- 28 (g) ~~The~~ once applied, and while holding pedal pressure for one minute, the brake pedal  
29 gradually moves slowly toward the ~~toeboard (indicating fluid leakage)~~ toeboard,  
30 indicating fluid leakage. [leakage.] while pedal pressure is maintained for one minute.

31 (2) ~~Inspection mechanics are not expected to remove wheels in order to inspect the brakes. (Except~~  
32 Except as provided in Sub-item (1)(b) of this Rule, inspection mechanics are not required to  
33 remove the wheels of a vehicle to examine the condition of the brakes. An inspection  
34 [Rule] Rule.) Inspection mechanic must shall raise vehicle to get beneath vehicles to check the  
35 underside. underside of a vehicle, including the applicable brake components list in this Rule.

36 (3) ~~Handbrakes Auxiliary, parking, (auxiliary, parking or holding handbrakes holding)~~ shall not be  
37 approved if:

- 1 (a) ~~There~~ there is no lever reserve when the brake is fully ~~applied~~.applied;
- 2 (b) ~~Cables~~ cables are visibly frayed or ~~frozen~~; ~~frozen~~, or there are missing or defective cotter
- 3 ~~pins~~; ~~there are pins~~ or broken or missing retracting ~~springs~~; ~~springs~~ or ~~there are~~ worn rods
- 4 or ~~couplings~~.couplings;
- 5 (c) ~~The~~ the operating mechanism, when fully applied, fails to hold the brakes in the applied
- 6 position without manual ~~effort~~.effort; and
- 7 (d) ~~When~~ when emergency or handbrakes are ~~applied~~.applied, without depressing the
- 8 accelerator, they fail to hold vehicle.
- 9

10 *History Note: Authority G.S. 20-2; 20-39; ~~20-183.3(1)~~; 20-183.3(a)(1);*

11 *Eff. October 1, ~~1994~~.1994;*

12 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0533 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0533 LIGHTS**  
4

5 (a) Headlights shall conform to the requirements of G.S. 20-129(b) and (c). Headlights shall not be approved if:

- 6 (1) ~~There~~ there are not at least two headlamps, or at headlamps (at least four on dual headlamp  
7 systems, systems which require four [units, ]units) on all self propelled vehicles except that  
8 Motorcycles and motoreycles and motor driven cycles need only one headlamp, one [one,]  
9 (2) ~~The~~ the headlamp lens or light produces other than a white or yellow light, light;  
10 (3) ~~Any~~ any lens or reflector is cracked, broken, discolored, or missing; missing, or rotated away from  
11 the proper position, or any reflector is not clean and bright, bright;  
12 (4) ~~The~~ the high beam-low beam dimmer switch does not operate properly or the high beam indicator  
13 light does not burn on vehicles manufactured after January 1, 1956, 1956;  
14 (5) ~~Lights~~ lights can be moved easily by hand, due to a broken fender or loose support, or if a good  
15 ground is not made by the mounting, mounting;  
16 (6) ~~Foreign~~ foreign materials, such as materials (such as shields, half of lens shields or painted lenses,  
17 are placed on the headlamp lens that interferes with light beam of lamp, lamp;  
18 (7) ~~Lights~~ using a headlight testing device that meets Society of Automotive Engineers standards or  
19 light testing chart that is approved by the Division, lights are improperly aimed, [aimed, and ](A  
20 light testing machine or light testing chart shall be used to determine this.)  
21 (8) ~~Lights~~ lights project a dazzling or glaring light when on low beam as defined in G.S. 20-  
22 131(b); and beam, [beam,]  
23 (9) ~~[Vehicle]~~ the vehicle is equipped with headlamps that [(i)] change the original design or  
24 performance of the [headlamps and (ii)]headlamps; or do not comply with Federal Motor Vehicle  
25 Safety Standard No. 108, as adopted by the National Highway Traffic Safety Administration.

26 (b) Rear Lights shall conform to the requirements of G.S. 20-129(d). Taillights shall not be approved if:

- 27 (1) ~~All~~ all original equipped rear lamps or the equivalent are not in working order, order;  
28 (2) ~~The~~ the lens is cracked or discolored, cracked, discolored, the lens or light projector ~~or~~ of a color  
29 other than ~~red~~ red, or is covered by a foreign [material]material, such as shields or painted lenses.  
30 [Minor cracks]Cracks on lenses shall not lead to disapproval unless water is likely to short out the  
31 bulb;  
32 (3) ~~They~~ they do not operate properly and project white light on the license plate, plate; and  
33 (4) ~~They~~ they are not securely mounted.

34 (c) Stoplights shall conform to the requirements of G.S. 20-129(g). A stoplight shall not be approved if:

- 35 (1) ~~The~~ the lens is cracked, discolored discolored, or the lens or light projector of a color other than red  
36 or amber. [Amber, ]amber, or is covered by a foreign [material]material such as  
37 [shields, ]shields or painted lenses. Minor cracksCracks on lenses shall not lead to disapproval

- 1 unless water is likely to short out the ~~bulb~~bulb;
- 2 (2) ~~It~~it does not come on when pressure is applied to foot ~~brake~~brake; and
- 3 (3) ~~It~~it is not ~~securely~~ mounted so as to project a light to the rear.
- 4 (d) Vehicles shall have the lights as required by G.S. 20-129.1.
- 5 (e) Parking lights shall conform to the requirements of G.S. 20-134. A vehicle shall not be approved if parking
- 6 lights are not ~~working~~working or covered by a foreign ~~[material]~~material, such as shields or painted lenses.
- 7 (f) ~~Back Up Lamps. Any A~~ motor vehicle ~~may be~~ that was originally equipped with ~~not more than two~~ back-up
- 8 ~~lamps~~lamps, either separately or in combination with other lamps lamps, must have those lamps maintained in
- 9 operating condition ~~[properly function,]~~ but any such back-up lamp ~~Backup lamps~~ shall not be lighted when the
- 10 motor vehicle is in a forward ~~motion~~motion, nor shall the ~~back-up~~backup lamp emit any color other than white. ~~A~~
- 11 ~~back-up lamp is not a mandatory requirement.~~

12

13 *History Note:* Authority G.S. 20-2; 20-39; 20-131(a)(b); 20-183.3;

14 *Eff. October 1, ~~1994~~1994*

15 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0534 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0534 HORN**  
4

5 (a) ~~The~~ In addition to the requirements set forth in G.S. 20-125, the horn shall not be approved if:

- 6 (1) ~~It~~ will not emit a sound audible for a distance of at least 200 feet, or it emits an unusually [a]  
7 loud or harsh sound. Original equipment in working order will equipment, operating as intended  
8 by the manufacturer, shall meet these requirements. Air horns cannot shall not be substituted for  
9 original equipment.
- 10 (2) ~~It~~ the wiring or wiring harness has been frayed, been damaged, is broken, or is missing wiring;  
11 if wiring harnesses are broken or missing; if the horn button is not mounted mounted to the motor  
12 vehicle or is not positioned within the driver's reach; or securely and in a position which is easily  
13 accessible to the driver; or if the horn is not securely mounted to the motor vehicle. [vehicle; and]
- 14 (3) ~~Operation~~ operation of the horn interferes with the operation of any other mechanism.

15 (b) Vehicles equipped with sirens shall not be approved unless they are within the class listed in G.S. 20-125(b) as  
16 being authorized to carry a siren.

17  
18 *History Note: Authority G.S. 20-2; 20-39; 20-183.3;*

19 *Eff. October 1, 1994. 1994;*

20 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0535 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0535 STEERING MECHANISM**

4  
5 (a) The inspection mechanic must raise the vehicle to ~~get beneath to~~ check the steering mechanism.

6 (b) The steering mechanism shall not be approved if:

- 7 (1) ~~With with~~ front wheels in straight ahead position there is more than three inches of free play in  
8 steering wheels up to 18 inches in diameter or more than four inches of free play in steering  
9 wheels over 18 inches in diameter. If the vehicle is equipped with power steering, the engine must  
10 be ~~operating~~operating;
- 11 (2) ~~Either either~~ front or rear springs are noticeably sagging or ~~broken~~broken;
- 12 (3) ~~The the~~ front wheels or front end assembly is loose, ~~bent, bent~~ or ~~twisted~~twisted; or bolts, nuts,  
13 nuts or rivets are loose or ~~missing~~missing;
- 14 (4) ~~Power power~~ steering system shows visible leaks or the power steering belt is loose or ~~worn~~worn;
- 15 (5) vehicle frame or component of the steering mechanism is rusted to the point of mechanical  
16 failure; or
- 17 (6) shock or strut is leaking to the point of failure ~~[which]that~~ will inhibit the steering of the vehicle.

18  
19 *History Note: Authority G.S. 20-2; 20-39; ~~20-183.3(4); 20-183.3(a)(4)~~;*  
20 *Eff. October 1, ~~1994~~1994;*  
21 *Readopted Eff. October 1, 2021.*



1 19A NCAC 03D .0536 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2

3 **19A NCAC 03D .0536 WINDSHIELD WIPER**

4

5 Windshield wipers shall not be approved if:

6 (1) ~~The~~the vehicle is not equipped with a windshield wiper or wipers, provided the vehicle has a  
7 ~~windshield;~~windshield.

8 (2) ~~The~~the wiper or wipers do not operate ~~freely;~~freely.

9 (3) ~~The~~the wiper controls are not so constructed and located that the driver may operate ~~them;~~them.

10 (4) ~~The~~the wiper or wipers are not adequate to clean rain, ~~snow,~~snow and other matter from the  
11 ~~windshield;~~windshield; and

12 (5) ~~Parts~~parts of blades or arms are missing or show evidence of damage.

13

14 *History Note: Authority G.S. 20-2; 20-39; ~~20-183.3(5);~~20-183.3(a)(5);*

15 *Eff. October 1, ~~1994.~~1994;*

16 *Readopted Eff. October 1, 2021.*

17

1 19A NCAC 03D .0537 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0537 DIRECTIONAL SIGNALS**  
4

5 ~~(a) G.S. 20-125.1 requires all vehicles except motorcycles beginning with the 1954 models to be equipped with turn~~  
6 ~~signals.~~

7 ~~(b) Vehicles required to have directional signals pursuant to G.S. 20-125.1, which does not include motorcycles,~~  
8 ~~shall be inspected and disapproved if:~~

- 9 (1) ~~Signals [signals] are not present and [or] of a type approved by the Commissioner as specified in~~  
10 ~~G.S. 20-125.1. Original directional signals on vehicles The vehicle is manufactured after July 1,~~  
11 ~~1953, are considered to be of a type approved by the Commissioner. Such not equipped with~~  
12 ~~signals shall be those by which will allow the operator of the vehicle to clearly show another~~  
13 ~~operator may indicate to other motorists approaching from a distance of 200 feet from the front or~~  
14 ~~rear his intention the operator's intentions to turn the vehicle. vehicle;~~  
15 (2) ~~All all lights do not operate properly, or if any lenses are broken, missing, or do not fit~~  
16 ~~properly fit;~~  
17 (3) ~~Signal signal lens or light color is other than red or amber on the rear and other than white or~~  
18 ~~amber on the front front, and is covered by a foreign material, such [material (such)] as shields and~~  
19 ~~painted [lenses]; lenses;~~  
20 (4) ~~Lamps lamps are not securely mounted or wiring and connections are not working; in good~~  
21 ~~condition. condition;~~  
22 (5) ~~Signals signals are not visible from front or back due to faulty or damaged mounting or due to the~~  
23 ~~manner in which mounted mounted; or~~  
24 (6) ~~Switch switch does not operate as designed by the manufacturer or is not so located in a position~~  
25 ~~as to be that allows convenient for the driver operator to reach and operate the switch, or the~~  
26 ~~switch and so that its operation [it] does not interfere interferes with the operation of other~~  
27 ~~mechanisms.~~

28  
29 *History Note: Authority G.S. 20-2; 20-39; 20-183.3(6); 20-183.3(a)(6);*  
30 *Eff. October 1, 1994. 1994;*  
31 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0538 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0538 TIRES**

4  
5 (a) A vehicle shall be disapproved if:

6 (1) ~~Any any~~ tire has cuts or snags that expose the ~~cords~~cords;

7 (2) ~~Any any~~ tire has a visible bump, bulge, or knot ~~apparently~~ related to tread or sidewall separation  
8 or partial failure of the tire structure including bead ~~area~~area; or

9 (3) there is less than 2/32-inch tread at two or more locations around the circumference of the tire in  
10 two adjacent major tread grooves or if the tread wear indicators are in contact with the roadway at  
11 two or more locations around the circumference of the tire in two adjacent major tread grooves.

12 (b) Tire depth shall be measured by a tread depth gauge which shall be of a type calibrated in thirty-seconds of an  
13 inch. ~~Readings shall be taken in two adjacent tread grooves of the tire around the circumference of the tire.~~ Readings  
14 for a tire with a tread design that does not have two adjacent grooves near the center shall be taken at the center of  
15 the tire around the circumference of the tire. Each tire must be completely lifted from the ground for an inspection to  
16 be performed.

17  
18 *History Note: Authority G.S. 20-2; 20-39; ~~20-183.3(7)~~; 20-183.3(a)(7);*

19 *Eff. October 1, ~~1994~~.1994;*

20 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0539 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0539 TIRES - DEFINITIONS**

4  
5 As used in this and Rule .0538 of this Section, the preceding Rule, these terms have the following  
6 meanings:meaning:

7 (1) “Bead” is that part of the tire that is shaped to fit the rim. The bead is made of high tensile steel  
8 wires wrapped and reinforced by the plies.

9 (2) “Cord” is made from textile, steel wire strands forming the plies or other structure of the tires.

10 (3) “Groove” is the space between two tread ribs.

11 (4) “Ply” is layers of rubber coated parallel cords forming the tire body.

12 (5) “Rib” is the tread section running circumferentially around the tire.

13 (6) “Rim” is a metal support for the tire or tire and tube assembly on the wheel. Tire beads are seated  
14 on the rim.

15 (7) “Sidewall” is that portion of the tire between tread and bead.

16 ~~(1) Rim is a metal support for the tire or tire and tube assembly on the wheel. Tire beads are seated on~~  
17 ~~the rim.~~

18 ~~(2) Bead is that part of the tire which is shaped to fit the rim. The bead is made of high tensile steel~~  
19 ~~wires wrapped and reinforced by the plies.~~

20 ~~(3) Sidewall is that portion of the tire between tread and bead.~~

21 ~~(4) Cord is made from textile, steel wire strands forming the plies or other structure of the tires.~~

22 ~~(5) Ply is layers of rubber coated parallel cords forming the tire body.~~

23 ~~(6) Rib is the tread section running circumferentially around the tire.~~

24 ~~(7) Groove is the space between two tread ribs. A tire shall not be approved if there is less than 2/32~~  
25 ~~inch tread at two or more locations around the circumference of the tire in two adjacent major~~  
26 ~~tread grooves or if the tread wear indicators are in contact with the roadway at two or more~~  
27 ~~locations around the circumference of the tire in two adjacent major tread grooves.~~

28  
29 *History Note: Authority G.S. 20-2; 20-39; 20-183.3(7);20-183.(a)(7);*

30 *Eff. October 1, 1994.1994;*

31 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0540 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2

3 **19A NCAC 03D .0540 REAR VIEW MIRRORS**

4

5 Rear view mirrors shall not be approved if:

6 (1) There is any movement between the attachment bracket and the windshield;~~Loosely mounted.~~

7 (2) Forward vision of the device is obstructed by mirror ~~assembly;~~assembly.

8 (3) They do not provide a ~~clear~~ view of the highway to the ~~rear;~~rear.

9 (4) They are cracked. ~~Cracked,~~ broken, have sharp edges or ~~can not~~ cannot be cleaned such that rear  
10 vision is not ~~obscured;~~obscured.

11 (5) ~~Very difficult to adjust or they~~ They cannot be adjusted or will not maintain a set  
12 ~~adjustment;~~adjustment.

13 (6) Bus, ~~truck, truck~~ or truck-tractor with a GVWR of 10,001 pounds or more is not equipped with a  
14 rear vision mirror on each side. If a vehicle is configured in such a way that the inside mirror is  
15 obstructed, a passenger side outside mirror is ~~required; or~~ required.

16 (7) Vehicles manufactured, assembled, or first sold after January 1, 1966 are not equipped with  
17 outside rear view mirrors on the driver's side. The passenger's outside rear view mirror is not  
18 required equipment on passenger vehicles if an inside rear view mirror is present.

19

20 *History Note: Authority G.S. 20-2; 20-39; ~~20-183.3(8);~~20-183.3(a)(8);*

21 *Eff. October 1, ~~1994.~~1994;*

22 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0541 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0541 EXHAUST EMISSION CONTROLS**

4  
5 (a) An exhaust emission shall not be approved if the vehicle is a ~~1968-year~~ 1968-year model or newer and any of  
6 the visible emission control devices placed thereon by the manufacturer are missing, disconnected, made  
7 ~~inoperative~~ inoperative, or as set forth in G.S. 20-128(d) have been altered without approval of the Department of  
8 ~~Environment, Health, and Natural Resources~~ Environmental Quality.

9 (b) If the unleaded gas restrictor on a vehicle manufactured after model year 1967 has been altered or removed a  
10 new or reconditioned catalytic converter and unleaded gas restrictor must be replaced before the vehicle shall  
11 pass inspection.

12 (c) An exhaust system shall not be approved if:

- 13 (1) ~~The the~~ vehicle has no muffler or other exhaust system of the type installed at the time of  
14 manufacture or does not operate as designed by the vehicle manufacturer; [and when in constant  
15 operation to prevent excessive noise, [[smoke][smoke, and smoke screens;]  
16 (2) ~~The the~~ muffler, exhaust, exhaust or tail pipes have leaking ~~joints~~ joints;  
17 (3) ~~The the~~ exhaust or tail pipes have holes, leaking seams, seams or leaking patches on  
18 ~~muffler~~ muffler;  
19 (4) ~~The the~~ tail pipe end is ~~pinched~~ pinched;  
20 (5) ~~The the~~ exhaust system is equipped with muffler cut-out or muffler ~~by-pass~~ by-pass; or  
21 (6) ~~Any any~~ part of the system passes through the passenger compartment.

22  
23 *History Note: Authority G.S. 20-2; 20-39; ~~20-128; 20-183.3(9); 20-183.3(a)(9)~~;*  
24 *Eff. October 1, ~~1994~~ 1994;*  
25 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0542 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2

3 **19A NCAC 03D .0542 EMISSIONS CONTROL DEVICE**

4

5 Pursuant to G.S. ~~20-183.8A(a)(2)~~, 20-183.8A(2), ~~[20-183.3A(a)(2), ]~~ a civil penalty shall be assessed against  
6 individuals who instruct or allow a person to remove, disconnect, tamper with, or render inoperable any emissions  
7 control device equipped by the manufacturer of any motor vehicle as described in G.S. 20-183.3. These devices  
8 include:

- 9 (1) Catalytic ~~converter,~~ converter;
- 10 (2) Unleaded gas ~~restrictor,~~ restrictor;
- 11 (3) Air pump ~~system,~~ system;
- 12 (4) EGR ~~valve,~~ valve;
- 13 (5) PCV ~~valve,~~ valve;
- 14 (6) Thermostatic air ~~cleaner,~~ cleaner;
- 15 (7) Evaporative emission ~~system,~~ system; and
- 16 (8) Oxygen sensor.

17

18 *History Note: Authority G.S. 20-2; 20-39; 20-183.8A;*  
19 *Eff. October 1, 1994.*  
20 *Readopted Eff. October 1, 2021.*

21

1 19A NCAC 03D .0543 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0543 INSPECTION PROCEDURE FOR EMISSIONS EQUIPMENT**

4  
5 (a) ~~In addition to the~~ In accordance with G.S. 20-183.2, vehicles required to receive a State safety inspection are  
6 also subject to an inspection, all gasoline powered motor vehicles which are registered or based in an exhaust  
7 emission inspection if it is propelled or has the ability to be propelled by a gasoline-powered motor vehicle,  
8 registered or based in an emission county, and meets the following criteria: county and which are 1975 [1966 ]model  
9 year or newer shall have an exhaust emission test, [excluding vehicles within the three most current model years and  
10 less than 70,000 miles.] This exhaust emission test is in addition to the safety inspection required in the rules in this  
11 Section and shall be administered as a part of the regular [annual] inspection only. The exhaust emission readings  
12 resulting from the test must be at or below the standards as set forth in Paragraph (e) of this Rule or a waiver must  
13 be issued by the Commissioner of Motor Vehicles or his designated agent as specified in 19A NCAC 3D .0551. The  
14 current year model vehicle shall be subject to the exhaust emissions inspection if presented for reinspection at  
15 anytime after the original inspection.

16 (1) the vehicle model year is within 20 years of the current year and older than the three most recent  
17 model years;

18 (2) vehicles of the three most recent model years have more than 70,000 miles on the odometer; and

19 (3) vehicle is not a heavy duty vehicle.

20 ~~(b) Vehicles which are purchased in a non-exhaust emission county and which are to be based in an exhaust~~  
21 ~~emission county, shall, within 10 days [12 months ]of purchase, be reinspected in compliance with the Safety~~  
22 ~~Equipment Exhaust Emission requirements.~~

23 ~~(b)(e)~~ The following requirements shall be adhered to by the license inspection station; station for calibration of the  
24 exhaust emission analyzer(s) used for state inspections. The requirements are:

25 (1) Inspections inspections shall be performed only with an analyzer and software thatwhich has been  
26 certified by N.C. DEHNR, the North Carolina Department of Environmental Quality (NCDEQ).

27 ~~(2) All certified analyzers shall automatically require the inspection mechanic to perform a self-~~  
28 ~~calibration and leak test every three days. If the analyzer does not require a gas calibration/leak~~  
29 ~~test every three days, no additional inspections shall be performed and the DMV Inspector shall be~~  
30 ~~notified.~~

31 ~~(3) All analyzers must be equipped with two tanks of span gases in the following concentrations:~~

32 ~~(A) 1.0% carbon monoxide, 6.0% carbon dioxide and 300 PPM Propane;~~

33 ~~(B) 4.0% carbon monoxide, 12.0% carbon dioxide and 1200 PPM Propane.~~

34 ~~(4) All analyzer maintenance shall be performed according to the manufacturer's specifications and~~  
35 ~~reported on a maintenance log which shall be maintained at each station. Items to be recorded~~  
36 ~~include:~~

37 ~~(A) all filter replacements;~~



1 (B) ~~water trap service; and~~

2 (C) ~~any replacement or repair of the probe or sample line.~~

3 (5) ~~Multi Point Calibration Requirements.~~

4 (A) ~~In high volume stations (those performing 5000 or more tests per year), analyzers shall~~  
5 ~~undergo two point calibrations each operating day and shall continually~~  
6 ~~compensate for changes in barometric pressure. Calibration shall be checked at least~~  
7 ~~every four hours and the analyzer adjusted if the reading is more than 2% different from~~  
8 ~~the span gas value.~~

9 ~~Each time the analyzer electronic or optical systems are repaired or replaced, a gas~~  
10 ~~calibration shall be performed prior to returning the unit to service.~~

11 (B) ~~In high volume stations, monthly multi point calibrations shall be performed. Low-~~  
12 ~~volume stations shall perform multi point calibrations every six months. The calibration~~  
13 ~~curve shall be checked at 20%, 40%, 60%, and 80% of full scale and adjusted or repaired~~  
14 ~~to meet specifications listed in 40 CFR Part 51, Appendix D(I)(b)(1) which is hereby~~  
15 ~~incorporated by reference, including all subsequent editions. This publication is available~~  
16 ~~upon request at no cost from DMV Enforcement, 1100 New Bern Avenue, Raleigh, NC~~  
17 ~~27697, telephone (919) 733 7872. The necessary additional calibration gas bottles~~  
18 ~~need not be a permanent part of the analyzer, but the analyzer software must require the~~  
19 ~~periodic multi point calibration and the analyzer hardware must accept the calibration gas~~  
20 ~~from an external source.~~

21 (C) ~~Gas calibration shall be accomplished by introducing National Bureau of Standards~~  
22 ~~traceable gases into the analyzer either through the calibration port or through the probe.~~  
23 ~~Span gases utilized for calibration shall be within two percent of the required span points.~~

24 (6)(2) Requirements for keeping and submitting records are as follows:

25 (A) Copies of the "~~Receipt and Statement~~" Vehicle Inspection Receipt/Statement shall be  
26 removed from the analyzer at the time of download and filed with other business records  
27 and kept in sequence for review by the DMV Inspector during his or her audit. These  
28 copies of the "~~Receipt and Statement~~" Vehicle Inspection Receipt/Statement must be  
29 retained for 18 ~~months.~~ months; and

30 (B) ~~A monthly report shall be submitted electronically by the analyzer on the date and time~~  
31 ~~specified by the Division. It is the station's responsibility to connect the analyzer to the~~  
32 ~~proper telephone line and leave the machine properly powered for the telephone~~  
33 ~~transmittal of records on the specified date and time each and every month. Failure to~~  
34 ~~comply with this requirement may result in the suspension of the station license.~~

35 (C)(B) Station owners ~~owner(s)~~ shall maintain the analyzer printer in a condition so that all  
36 that produces copies of the Vehicle Inspection Receipt/Statement that are clear and  
37 legible. Failure to comply [with this Subsection] shall result in an immediate [suspension]

lockout as set forth in Rule 0545 of this Section that will remain in effect until the printer has been replaced or corrected.

(d)(c) The procedures for inspection shall be as follows:

(1) The vehicle's engine must be at normal operating temperature, and all accessories must be off.

(2)(1) The exhaust system from the engine manifold to the rear most portion of the tailpipe shall be examined to determine that the exhaust system is free from cracks, holes or dents which would restrict, reduce, allow leakage or any way prohibit the free flow of exhaust from the engine to the rear most portion of the tailpipe. The Exhaust Emissions Test requires one analyzer probe to be inserted 10" to 16" in the end of tailpipe. If the exhaust system is defective (leaking joints, holes, leaking seams, or leaking patches) this could interfere with an accurate exhaust emissions reading. The inspection mechanic shall perform the emission test utilizing an emission analyzer that conforms to the NC Department of Environmental Quality certification standards. A defective exhaust system is a failure item under the safety inspection requirements.

(3)(2) The inspection mechanic shall conduct the emission inspection by following the prompts of the test with the use of an exhaust emission analyzer and accurately completing all data fields with the applicable information which has met N.C. DEHNR [NCDEQ] certification and has been approved by the North Carolina Commissioner of Motor Vehicles or his designated agent. [Office.] Standards for inspection are found in the publication, "Specification for the North Carolina Analyzer System" which is hereby incorporated by reference, including all subsequent amendments and editions. This publication is available at no cost from the North Carolina Department of Environment, Health, and Natural Resources, Division of Environmental Management Air Quality Section, Mobile Sources, 15 North West Street, Raleigh, NC 27626, telephone 919-733-1481.

(4)(3) The emission's test shall be conducted using the following [prompts displayed on the emissions analyzer. All] procedures: (All instructions provided by the analyzer must be followed. followed):

(A) Idle Mode Emission Test:

(i) Analyzer must be warmed up.

(ii) The analyzer shall prompt the inspector to test the vehicle in as received condition with the transmission in neutral or park. All accessories shall be turned off and the engine running at normal operating temperature.

(iii) The inspector shall deploy a tachometer, insert the sample probe into the tailpipe, then the test sequence shall begin.

(iv) Pre-condition mode shall initiate when engine speed is between 2200 and 2800 RPM and continue for 30 seconds.

(v) Idle mode test shall start when the vehicle engine speed is between 350 and 1100 RPM. The mode shall last a minimum of 30 seconds and a maximum of 90 seconds.

- (vi) — If the vehicle passes, the reported scores shall be the passing readings. If the vehicle fails, the inspector shall proceed to the second chance test.
- (vii) — Second chance pre condition mode shall initiate when engine speed is between 2200 and 2800 RPM and continue for 180 seconds.
- (viii) — Second chance idle test shall start when the vehicle engine speed is between 350 and 1100 RPM. The mode shall last for a maximum of 90 seconds.  
NOTE: The engine shall be shut off and restarted for 1981-1986 Ford Motor Company products and 1984-1985 Honda Preludes, as instructed by the analyzer.
- (ix) — The pass/fail analysis shall begin after an initial time delay of 10 seconds.
- (x) — The pass/fail determination is made based on a comparison of the HC and CO readings against the idle emission standards for that particular vehicle.
- (B) — The analyzer shall test and disapprove a vehicle when the Carbon Monoxide (CO) or Hydrocarbon (HC) reading of the inspected vehicle is higher than the standards set forth in Paragraph (c) of this Rule.

(c) ~~The following chart indicates the maximum allowed Emission Standards which became effective April 1, 1991:~~

VEHICLE CLASS	MODEL YEAR	CARBON MONOXIDE	HYDROCARBON
		CO STANDARD AT IDLE (0%)	HC STANDARD AT IDLE (PPM)
Light duty vehicles	1975-1977	4.5	450
	1978-1979	3.5	350
	1980	2.0	250
	1981 & later	1.2	220
Heavy duty vehicles	1975-78	5.0	500
	1979 & later	4.0	400

~~(f)(d) A challenge waiver may be issued by the Commissioner of Motor Vehicles or his designated agent. [Office. If the The owner or operator/owner/operator of the a vehicle that suspects the an emission analyzer provided incorrect results, is incorrect, he [or she ] may submit in writing to petition the Division of Motor Vehicles a request that the Division perform an emissions inspection on the vehicle so the results can be compared. to test the vehicle in question to determine the analyzer's accuracy. If the test determines the vehicle to be in compliance with the Emission Standards, the Division a challenge waiver shall issue an exemption to the vehicle, not to exceed 12 months. be issued and the The Division shall immediately require an examination of the station analyzer in question and take corrective action.~~

*History Note: Authority G.S. 20-2; 20-39; 20-183.3;  
Eff. October 1, 1994.1994;*



1 19A NCAC 03D .0544 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0544 SAFETY INSPECTION OF MOTORCYCLES**

4 (a) Motorcycle brakes shall fail safety inspection if:

- 5 (1) ~~When~~when applying brakes to moving vehicle, there is insufficient force to stop the  
6 ~~vehiele.~~vehicle;  
7 (2) ~~Brakes~~brakes are worn in such a manner that there is an uneven braking ~~foree.~~force;  
8 (3) ~~There~~there is an audible or visual indication that the brake lining is worn to the extent it is no  
9 longer ~~serviceable.~~serviceable;  
10 (4) ~~There~~there is less than one-third reserve in either footbrake or handbrake total possible travel  
11 when the brakes are fully ~~applied.~~applied;  
12 (5) ~~Reservoirs~~reservoirs of braking cylinders are not ~~full.~~full;  
13 (6) ~~There~~there is a visible leakage of fluid from any brake line or brake ~~component.~~component; or  
14 (7) ~~Handbrake~~handbrake cables are frayed, broken, or frozen or linkage is defective.

15 (b) Motorcycle headlamps shall fail safety inspection if:

- 16 (1) ~~Headlamp~~headlamp does not ~~operate properly.~~operate or is a color other than white;  
17 (2) ~~There~~there are more than two headlamps connected on a single ~~switch.~~switch;  
18 (3) ~~Headlamp~~headlamp is cracked or has holes which allow entry of ~~water.~~water;  
19 (4) ~~There~~there is standing water in the ~~headlamp.~~headlamp; or  
20 (5) ~~Headlamp~~headlamp is out of ~~proper~~ aim.

21 (c) Motorcycle rear lamps shall fail safety inspection if:

- 22 (1) ~~They~~they do not ~~operate.~~operate;  
23 (2) ~~Light~~light is a color other than ~~red.~~red;  
24 (3) ~~Light~~lens is cracked or broken and allows entry of ~~water.~~water;  
25 (4) ~~There~~there is standing water in the ~~lens.~~lens;  
26 (5) ~~Lamp~~lamp is not ~~securely mounted.~~securely mounted; or  
27 (6) ~~Wiring~~wiring is broken or frayed.

28 (d) A motorcycle stop lamp shall fail safety inspection if:

- 29 (1) ~~Lamp~~lamp does not operate when brakes are ~~applied.~~applied;  
30 (2) ~~Light~~light -is a color other than red or ~~amber.~~amber;  
31 (3) ~~Light~~lens is cracked or broken ~~or and~~ allows entry of ~~water.~~water;  
32 (4) ~~There~~there is standing water in the ~~lens.~~lens;  
33 (5) ~~Lamp~~lamp is not ~~securely mounted.~~securely mounted; or  
34 (6) ~~Wiring~~wiring is broken or frayed.

35 (e) A motorcycle license plate light shall fail safety inspection if:

- 36 (1) ~~Light~~light does not ~~operate.~~operate;  
37 (2) ~~Light~~light does not illuminate the license ~~plate.~~plate; or

- 1           (3)     ~~Light~~ light is a color other than white.
- 2 (f) A motorcycle horn shall fail safety inspection if:
- 3           (1)     ~~The the~~ horn does not ~~operate~~.operate;
- 4           (2)     ~~The the~~ sound emitted is not audible at 200 ~~feet~~.feet;
- 5           (3)     ~~The the~~ horn is not ~~securely~~ mounted.mounted; or
- 6           (4)     ~~The the~~ button is mounted so that it ~~can not~~ cannot be ~~easily~~ operated by the driver.
- 7 (g) Motorcycle tires shall fail safety inspection if:
- 8           (1)     ~~There there~~ is less than two thirty-seconds-of an inch of tread at two or more locations around the
- 9                     circumference of the tire in two adjacent major tread grooves, or if the tread wear indicators are in
- 10                    contact with the roadway at two or more locations around the circumference of the ~~tire~~.tire;
- 11           (2)     ~~Cords~~ cords are exposed at any location on the ~~tire~~.tire; or
- 12           (3)     ~~Sidewall~~ sidewall is cut, bulging, ~~damaged~~.damaged or is ~~severely~~ cracked due to dry rotting.
- 13 (h) Motorcycle rear view mirrors shall fail safety inspection if:
- 14           (1)     ~~The the~~ mirrors are missing, broken, or ~~eracked~~.cracked;
- 15           (2)     ~~The the~~ mirrors are not ~~securely~~ mounted.mounted; or
- 16           (3)     ~~The the~~ mirrors will not hold a setting while vehicle is in operation.
- 17 (i) A motorcycle exhaust system shall fail safety inspection if:
- 18           (1)     ~~The the~~ motorcycle has no ~~muffler~~.muffler;
- 19           (2)     ~~The the~~ muffler, ~~exhaust~~.exhaust or tailpipe have holes, leaking joints, seams, or ~~patches~~.patches;
- 20           (3)     ~~The the~~ tailpipe end is ~~pinched~~.pinched;
- 21           (4)     ~~The the~~ exhaust system is equipped with a muffler cut out or ~~bypass~~.bypass; or
- 22           (5)     ~~The the~~ muffler baffles have been removed or damaged to create a straight pipe.
- 23 (j) A motorcycle steering mechanism shall fail safety inspection if:
- 24           (1)     ~~Front~~ front shocks are sagging or ~~broken~~.broken;
- 25           (2)     ~~Front~~ front end assembly is ~~loose~~. bent. bent or there are damaged or twisted ~~bolts~~.bolts; or
- 26           (3)     ~~Front~~ front end nuts, bolts, or rivets are loose or missing.
- 27

28 *History Note: Authority G.S. 20-2; 20-39; 20-183.3;*  
29 *Eff. October 1, 1994.*  
30 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0545 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0545 INVESTIGATION/AUDIT/SAFETY OR EXHAUST-EMISSIONS INSPECTION**  
4 **STATIONS**

5  
6 ~~(a) Gas Audit Inspection: A DMV Inspector shall make a check of each station's calibration gas four times a year. This check is accomplished by measuring the concentration of the certified audit gas on the station's analyzer after calibration with the station's gas. If an analyzer fails it shall be placed in a lockout position until brought into compliance by the manufacturer and certified by retesting.~~

7  
8  
9  
10 ~~(b)(a) Complaints To Be Investigated: All bona fide complaints received by the Commissioner about any inspection station shall be investigated for the purpose of determining whether there has been a violation of the~~ **Rules of this**  
11 **Section and applicable General Statutes, inspection laws.**

12  
13 ~~(c)(b) Appropriate~~ **Enforcement** Action To Be Taken: When it appears from any investigation that the inspection  
14 ~~law, law~~ has been violated by an inspection station or its agents or employees, or by a ~~Self-inspector, self-inspector,~~  
15 the Commissioner shall take the appropriate ~~action~~ **enforcement action**, which may include **but is not limited to**  
16 suspension or revocation of the station's license and inspector certifications. ~~When any such license is suspended or~~  
17 ~~revoked, the owner of the station shall return the license, all unused inspection stickers, required records and reports~~  
18 ~~and forms and supplies on hand to the Commissioner.~~

19 ~~(d)(c) Report of Undercover Investigation: Periodic checks shall be made by undercover officers of the Division of~~  
20 ~~Motor Vehicles routinely and upon receipt of complaints to determine compliance with inspection laws. If violations~~  
21 ~~are detected, administrative action shall be taken by the Division of Motor Vehicles against the licensed station and~~  
22 ~~the inspection mechanic.~~

23 ~~(e)((d)) Revocation, Suspension or Denial: Any safety equipment or safety equipment exhaust emission inspection~~  
24 ~~station whose license has been revoked or suspended may, prior to such revocation or suspension order being~~  
25 ~~served, request a hearing before the Commissioner and in such cases the hearing shall be held as soon as practicable.~~  
26 ~~To ensure such an opportunity to the licensee, an agent of the Commissioner shall offer in writing said hearing prior~~  
27 ~~to serving a suspension or revocation order. If the licensee requests a hearing prior to the revocation or suspension~~  
28 ~~order being served, the licensee shall be allowed to continue conducting inspections. The Commissioner, following~~  
29 ~~such hearing, may rescind, amend or affirm the revocation or suspension order.~~

30 ~~(f)(e)(d) When an authorized agent of the Division of Motor Vehicles~~ **Enforcement Section** ~~detects a violation, he~~ **or**  
31 **she** shall **immediately advise** **require** the **owner/operator** **owner or operator** to discontinue all **inspections and**  
32 **operations** ~~inspections/operations~~ until he **or she** is in compliance and approved by the Division of Motor Vehicles  
33 **Enforcement Section** Inspector.

34 **(e) Compliance Audit: A DMV Inspector shall audit a station's compliance with the Rules of this Section. Violation**  
35 **of the equipment requirements shall result in lockout of the inspection analyzer. Lockouts shall remain in effect until**  
36 **the issue has been brought into compliance.**

- 1 *History Note:* *Authority G.S. 20-2; 20-39; 20-183.6A; 20-183.8D; ~~20-183.8E~~; 20-183.8F;*
- 2 *Eff. October 1, ~~1994~~ 1994;*
- 3 *Readopted Eff. October 1, 2021.*



1 19A NCAC 03D .0550 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0550 WAIVERS FROM EXHAUST-EMISSIONS TEST REQUIREMENTS**

4  
5 (a) ~~The Commissioner, Commissioner of Motor Vehicles, or Enforcement Section License and Theft Bureau~~  
6 employees who are designated by the Commissioner, may ~~shall~~ issue a written waiver from the applicable ~~exhaust~~  
7 emissions test standards for any vehicle, except vehicles listed in Paragraph (g) of this Rule, if the waiver issuance  
8 criteria have been met.

9 (b) A written waiver shall be issued in accordance with this ~~rule~~ Rule upon request when all of the following criteria  
10 have been ~~met~~ met to the satisfaction of the Commissioner or the designated Enforcement Section employee:

11 (1) ~~The~~ the vehicle passed the safety portion of the inspection as shown by the vehicle inspection  
12 receipt completed by the licensed ~~self-inspector~~ or inspection station that performed the  
13 ~~inspection~~ inspection;

14 (2) ~~The~~ the vehicle failed the ~~exhaust~~ emissions portion of the inspection as shown by the vehicle  
15 inspection receipt completed by the licensed ~~self-inspector~~ or inspection station that performed the  
16 ~~inspection~~ inspection;

17 (3) ~~The~~ the vehicle is equipped with each ~~exhaust~~ emissions control device listed in Rule .0543 of this  
18 Section, if such device was equipped on the vehicle by the manufacturer. If the unleaded gas  
19 restrictor has been removed or rendered inoperable, the catalytic converter must be  
20 ~~replaced~~ replaced; ~~and~~;

21 (4) ~~Qualifying~~ qualifying repairs have been completed on the vehicle within ~~45-60~~ days following the  
22 initial failed ~~exhaust~~ emissions inspection. Proof of repairs must be shown by itemized and dated  
23 receipts from the person or business that provided the repair service or parts. Receipts for parts  
24 shall name the part and ~~not just~~ the stock number. Qualifying repairs For purposes of this Rule,  
25 “qualifying repairs” means repairs performed on a vehicle for the purpose of repairing the cause of  
26 the ~~exhaust~~ emissions inspection failure. ~~The repairs must be appropriate to the cause of the test~~  
27 ~~failure~~. A visual inspection of the vehicle shall be made by the designated ~~Enforcement Section~~  
28 License and Theft Bureau employee to determine if repairs were actually performed if, given the  
29 nature of the repair, this can be visually confirmed. (A) ~~For pre 1981 model year vehicles,~~  
30 ~~qualifying repairs may be performed by any person, including the vehicle owner.~~

31 (B) ~~(A)~~ (A) For 1981-1996 and later model year vehicles, qualifying repairs must be performed by a  
32 person who is professionally engaged in vehicle repairs or who is employed by a business  
33 whose purpose is vehicle repair or who possesses a certification from the National  
34 Institute For Automotive Service Excellence for emission-related diagnosis and  
35 repair repair;

36 (5) ~~The~~ the minimum repair expenditure applicable to the vehicle has been met by having qualifying  
37 repairs performed on the vehicle vehicle as follows:

- 1 (A) For ~~1975-1980~~ model year vehicles, the minimum repair expenditure is seventy five  
2 dollars (\$75.00). Only the costs of parts are applied toward the minimum repair  
3 expenditure ~~expenditure, on these vehicles~~ if the repairs are performed by the vehicle  
4 owner or by a person who is not professionally engaged in vehicle ~~repairs, repairs or In~~  
5 ~~addition, those~~ who ~~is are~~ not employed by a business whose purpose is vehicle repair or  
6 who does not possess a certification from the National Institute For Automotive Service  
7 Excellence for emission-related diagnosis and ~~repair, repair:~~
- 8 (B) For ~~1981-1996~~ and later model year vehicles, the minimum repair expenditure is two  
9 hundred dollars (\$200.00), including parts and labor ~~costs, costs:~~
- 10 (C) The cost of repairs to correct or replace emissions control devices that have been  
11 removed, ~~disconnected, disconnected~~ or rendered inoperable shall not be applied toward  
12 the minimum repair expenditure for any vehicle, regardless of model year.
- 13 (D) The cost of diagnostic testing to determine whether the vehicle meets ~~exhaust~~ emissions  
14 standards shall not be applied toward the minimum repair ~~expenditure, unless associated~~  
15 ~~with actual repairs to the [vehicle.] vehicle; and~~
- 16 (E) Any available warranty coverage on the vehicle must be used to obtain the needed repairs  
17 before expenditures may be applied to the minimum repair expenditure.
- 18 (6) ~~The~~ vehicle owner has received a written denial of warranty coverage from the vehicle  
19 manufacturer or authorized dealer if the vehicle is within the statutory age and mileage  
20 coverage under section 207(b) of the Federal Clean Air Act ~~[42-U.S.C. 7541(b); and [42 U.S.C.~~  
21 ~~7541(b)].~~
- 22 (7) ~~After~~ ~~after~~ qualifying repairs have been completed and within 45-60 days after failing the initial  
23 ~~exhaust~~ emissions inspection, the vehicle failed another ~~exhaust~~ emissions inspection as shown by  
24 the vehicle inspection receipt completed by the licensed ~~self-inspector or~~ inspection station that  
25 performed the inspection.
- 26 (c) The vehicle owner or person authorized by the owner must request the waiver and present the vehicle and  
27 current registration ~~sticker~~ at the ~~Division Enforcement Section License and Theft Bureau office, office that serves~~  
28 ~~the county in which the vehicle is registered.~~ The receipts and other documents required by Paragraph (b) of this  
29 Rule must be submitted to the designated ~~Enforcement Section License and Theft Bureau~~ employee at the time of  
30 the request for a waiver.
- 31 (d) The designated ~~Enforcement Section License and Theft Bureau~~ employee shall review the receipts and  
32 documents submitted in connection with the waiver request and shall make a visual inspection of the vehicle to  
33 verify that the criteria listed in Paragraph (b) of this Rule have been met. If the ~~Enforcement Section License and~~  
34 ~~Theft Bureau~~ employee is satisfied that the waiver criteria have been met, the Division must issue a written waiver  
35 for the vehicle on a form provided by the Division.
- 36 (e) The vehicle owner or person authorized by the owner must present the waiver to the licensed self-inspector or  
37 inspection station that performed the initial safety and ~~exhaust~~ emissions inspection. The ~~self-inspector or~~ inspection

1 station shall reinspect the vehicle in accordance with the Rules of rules under this Section, except for the ~~exhaust~~  
2 emissions portion of the inspection. The waiver authorization number shown on the written waiver must be entered  
3 into the ~~exhaust~~ emissions analyzer. If the vehicle meets all other requirements of the inspection, the ~~self-inspector~~  
4 ~~or~~ inspection station shall ~~pass the vehicle inspection.~~ affix a valid inspection sticker to the vehicle which shall expire  
5 at the same time it would if the vehicle had passed the exhaust emissions inspection.

6 (f) Each ~~self-inspector and~~ inspection station must maintain a copy of the written waivers for vehicles inspected and  
7 approved by the station for at least 18 months in the same manner and under the same conditions as other inspection  
8 records which are required to be maintained pursuant to G.S. 20-183.6A(b).

9 (g) Waivers shall not be issued for any of the following vehicles:

10 (1) — Vehicles-vehicles that are owned, operated, operated or leased by a licensed self-inspector, self-  
11 inspector; [or]

12 (2) — Vehicles that are owned or being held for retail sale by a motor vehicle dealer, as defined in G.S.  
13 20-286(11).

14  
15 *History Note: Authority G.S. 20-39; 20-183.5;*  
16 *Eff. October 1, 1994.1994;*  
17 *Readopted Eff. October 1, 2021.*

1 19A NCAC 03D .0551 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0551 WINDOW TINTING**

4  
5 (a) All stations performing window tinting inspections shall have a light meter or photometer which has been  
6 ~~properly~~ tested and approved by the ~~Division Commissioner~~ of Motor ~~Vehicles.~~ Vehicles and that complies with  
7 Rule .0552 of this Section. Stations ~~that which~~ do not have an approved light meter shall not inspect vehicles with  
8 applications of after-factory window tinting. Stations are not required to maintain a light meter in order to perform  
9 safety inspections on vehicles without after-factory window tinting.

10 (b) Prior to initiating the inspection process, the inspection mechanic shall

11 (1) ~~The inspection mechanic shall~~ determine if the vehicle has after-factory window tinting ~~prior to~~  
12 ~~beginning the inspection. The mechanic may use by using~~ an automotive film check card or  
13 knowledge of window tinting ~~techniques.~~ techniques to determine if a vehicle has after factory tint  
14 applied to any window of the vehicle.

15 (2) ~~If a station determines~~ [determine if] a ~~the~~ vehicle has after-factory window tinting but ~~the station~~  
16 does not have ~~a an approved light~~ meter approved by the Division, meter, the mechanic must  
17 inform the customer he ~~or she~~ is unable to perform the inspection. The station may not charge for  
18 any portion of the inspection.

19 (b) ~~All windows with applications of after factory window tinting shall be inspected with an approved~~  
20 ~~photometer, which is properly calibrated and functioning.~~ [ An inspection mechanic shall not inspect an after factory  
21 tinted window of a vehicle for which the Division has issued a medical exception permit pursuant to G.S. 20-127(f).]

22 (c) ~~Prior to performing a test on a vehicle, the~~ The inspector mechanic shall test the photometer ~~for accuracy by~~  
23 ~~checking the~~ calibration against a reference sample of glass provided by the ~~manufacturer prior to testing the after~~  
24 ~~factory window tinting.~~ manufacturer. If the ~~photometer's display is not functioning as designed by the manufacturer~~  
25 ~~or photometer indicates~~ the device exceeds the net light transmission calibration test by ~~+plus~~ or ~~-minus~~ three  
26 percentage points, the unit shall ~~be considered out of calibration and may~~ not be used until ~~repaired, properly~~  
27 ~~calibrated. The unit's digital display must also be checked to ensure all digital display segments are lit and properly~~  
28 ~~functioning.~~ Guidelines for photometer calibration tests are as follows:

29 (1) The reference glass sample must be clean and free of dirt prior to performing the calibration  
30 check.

31 (2) If a reference glass sample has been broken or is missing, the test shall not be performed and the  
32 mechanic shall inform the customer he is unable to perform the inspection.

33 (3) ~~If a digital display segment is not functioning, the test shall not be performed and the mechanic~~  
34 ~~shall inform the customer he is unable to perform the inspection. The unit may not be used until it~~  
35 ~~is repaired.~~

36 (4) ~~The windows to be tested shall be clean and free of dirt or moisture.~~

37 (d) ~~The test shall be performed according to the photometer manufacturer's recommendations.~~

1 ~~(e)~~(d) The inspection mechanic shall perform all tests according to the photometer manufacturer's  
2 recommendations. Window tint shall fail safety inspection if:

- 3 (1) Any window on the vehicle with after-factory tint has a light transmittance of less than ~~32%~~32%;
- 4 (2) The tint on any window is red, yellow, or ~~amber~~amber;
- 5 (3) The tint on the windshield extends more than five inches below the top of the windshield or is  
6 below the AS1 line of the windshield, whichever measurement is ~~longer~~longer; and
- 7 (4) The light reflectance of a tinted window is not 20% or less.

8 ~~(f)~~(e) Window tinting on vehicles with after-factory window tint shall not be inspected if the vehicle is exempt from  
9 the window tinting restrictions under G.S. 20-127(c).

10 ~~(g)~~(f) The mechanic shall collect the fee as specified in G.S. 20-183.7(a) for performing the inspection. Inspecting  
11 window tinting shall be charged for vehicles with after factory tint, unless the light transmission exceeds 65%.

12 ~~(h)~~ The fee for inspecting window tinting may only be charged for vehicles with after factory tint applied. If the  
13 light transmission exceeds 65%, the vehicle shall not be considered to have after factory tint and the mechanic shall  
14 not charge the fee as specified in G.S. 20-183.7(a).

15 ~~(i)~~ Standards for devices used to measure light transmittance through vehicle windshields and windows are as  
16 provided in this section. These standards include but are not limited to portable devices used within the State of  
17 North Carolina to measure light transmittance through vehicle windshields and windows pursuant to G.S. 20-127.  
18 These devices shall be provided with a standard reference sample and procedure for taking readings utilizing the  
19 reference sample. The device light source shall be mid-range in the visible spectrum (560nm +/- 20nm) and shall not  
20 emit in the ultraviolet and infrared portions of the electromagnetic spectrum.

21 ~~(j)~~ The standardization of glass reference samples shall be traceable to the National Institute of Standards and  
22 Technology (NIST).

23  
24 *History Note:* Filed as a Temporary Adoption Eff. November 1, 1995 for a period of 180 days or until the  
25 permanent rule becomes effective, whichever is sooner;  
26 Authority G.S. 20-2; 20-39; 20-127; ~~20-183.6(a)~~; 20-183.7(a);  
27 Eff. February 1, ~~1996~~1996;  
28 Readopted Eff. October 1, 2021.

1 19A NCAC 03D .0552 is readopted as published in 35:17 NCR 1943-1946 with changes as follows:

2  
3 **19A NCAC 03D .0552 PHOTOMETER DESIGN AND PERFORMANCE REQUIREMENTS**  
4

5 (a) Multi-piece photometers shall be designed to be operated by one person on front windows, roll-down and non-  
6 roll-down side windows, and rear windows with up to 1/4-inch glass thickness. The multi-piece photometer shall  
7 have a three-digit digital readout capable of displaying from 00.0% to 99.9% transmittance with a resolution to the  
8 nearest 1/10 of 1%.

9 (b) The multi-piece photometer shall incorporate an automatic alignment feature or positive alignment indication  
10 such that the alignment of the transmitter and receiver are accomplished either automatically by respective devices  
11 or through an electronic noise indicating proper alignment, a light indicating ~~proper~~ alignment, or a feature ~~that~~  
12 ~~which~~ prevents readings being taken without the device being ~~properly~~ aligned. The automatic field of view of the  
13 transmitter and receiver shall be large enough to provide ~~an a stable and~~ accurate reading of the true net  
14 transmittance of the measured window.

15 (c) All photometric devices shall maintain unit accuracy within  $\pm$  ~~plus~~ or  $-$  ~~minus~~ three percentage points of  
16 reference samples between ten and seventy percent net light transmission.

17 (d) All photometric devices shall have a repeatability of  $\pm$  ~~plus~~ or  $-$  ~~minus~~ one percentage point from reading to  
18 reading.

19 (e) If the unit's supply voltage falls below the usable operating range, the device shall produce a low battery  
20 indication or fail to perform testing. Accurate readings must not be affected by the unit's supply voltage. The unit's  
21 power supply shall be capable of producing a minimum of 200 readings before replacement or recharge.

22 (f) Photometric devices shall ~~fail the Division's certification if it is not be~~ affected by ~~outside stray or ambient~~ light  
23 ~~sources, sources other than the unit's source light.~~ In addition to physical light ~~barriers-barriers,~~ such as felt ~~covers,~~  
24 ~~covers and~~ rubber gaskets, the photometer shall include some form of electronic filtration or cancellation of any  
25 stray or ambient light sources. ~~Units with readings affected by outside stray or ambient light sources shall not be~~  
26 ~~acceptable.~~

27 (g) Photometric devices shall not be affected by interference generated by electric equipment, tools, or lighting  
28 devices. Readings shall not fluctuate when close to operating electric motors or lighting sources.

29 (h) Operating humidity range shall be 0-100% non-condensing. Operating temperature range shall be zero to 110  
30 degrees F.

31 (i) Photometric devices shall incorporate a means of compensating for temperature and humidity changes within the  
32 stated ranges of this Rule. Acceptable units shall be capable of demonstrating both accuracy and repeatability of  
33 transmittance readings throughout the operating temperature and humidity ranges under Paragraph (h) of this Rule.

34 (j) The multi-piece photometer's transmitter shall have a light source capable of providing a uniform intensity beam  
35 that can accommodate the alignment capabilities of the receiver. Multi-piece photometers shall incorporate a means  
36 of self-alignment or positive alignment indication that shall be accomplished when the source and detector units are  
37 placed on their respective surfaces of the glazing to be measured as described in Paragraph (a) of this Rule. The

1 alignment shall be accurate enough to position the detector unit ~~well~~ within the uniform beam of the source. The  
2 result of this alignment feature shall be data that meets the accuracy and repeatability requirements of this Rule.

3 (k) Reference samples shall be glass with a warranted transmittance stability of at least one year. Reference samples  
4 shall provide a uniform surface reading at four points with a variation not to exceed one percentage point as  
5 measured by a calibrated spectrophotometer over an indicated range within 560nm with a variance of no more than  
6 20nm. Reference samples shall be ~~permanently~~ labeled or inscribed with the manufacturer's name, address, and date  
7 of calibration. Manufacturers shall ensure replacement reference samples are available to the consumer within two  
8 working days in the event of damage or breakage.

9 (l) Photometric devices shall include an all segments display option for testing the unit's LCD display segments.  
10 This test may be performed prior to each reading or through a separate test button.

11 (m) Photometric units shall incorporate devices ~~which that~~ shall protect the light source and detector from direct  
12 contact with environmental elements, dust, grease, and other products ~~commonly~~ associated with automotive repair  
13 shops. These devices shall also prevent the user from ~~directly~~ touching either the light source or detector.

14  
15 *History Note: Filed as a Temporary Adoption Eff. November 1, 1995 for a period of 180 days or until the*  
16 *permanent rule becomes effective, whichever is sooner;*

17 *Authority G.S. 20-2; 20-39; 20-127; ~~20-183.6(a); 20-183.7(a);~~*

18 *Eff. February 1, ~~1996-1996;~~*

19 *Readopted Eff. October 1, 2021.*