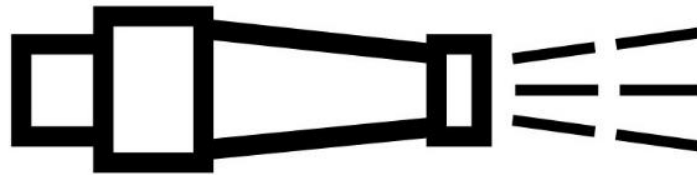




**TC008:2022**

## Graphical Symbols for Automotive Fire Apparatus



Prepared by the FAMA Technical Committee

This guide does not endorse any manufacturer or product



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## 1 - Scope

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This document presents graphical symbols for use on operator controls and other displays on fire and rescue apparatus. These symbols are appropriate for vehicles designed to meet NFPA 1901 *Standard for Automotive Fire Apparatus*, NFPA 1906 *Standard for Wildland Apparatus*, and NFPA 414 *Standard for Airport Rescue and Fire Fighting Vehicles*.

This document gives the fire and rescue community an option for labeling common controls with a graphical representation of their function. This can be either in place of, or in addition to, the traditional text description. Some symbols have been adopted from already established sources, and many of the symbols are identical or similar to those being developed for use in Europe.

## 2 – Reference Documents

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The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

|             |  |
|-------------|--|
| SAE J1362   | Graphical Symbols for Operator Controls and Displays on Off-Road Self-Propelled Work Machines  |
| ISO 7000    | Graphical symbols for use on equipment—Index and synopsis  |
| ISO 7296-2  | Cranes—Graphical symbols—Part 2: Symbols for mobile cranes   |
| ISO 80416-2 | Basic principles for graphical symbols for use on equipment—Part 2: Form and use of arrows   |
| ISO 80416-4 | Basic principles for graphical symbols for use on equipment—Part 4: Guidelines for the adaptation of graphical symbols for use on screens and displays (icons) |
| ISO 8999    | Reciprocating internal combustion engines -- Graphical symbols   |
| CEN 15989   | Fire Fighting Vehicles and Equipment – Symbols for Operator Controls and Other Displays  |
| IEC 60417   | Graphical symbols for use on equipment   |



- IEC 80416-1 Basic principles for graphical symbols for use on equipment—Part 1: Creation of symbol originals
- IEC 80416-3 Basic principles for graphical symbols for use on equipment—Part 3: Guidelines for the application of graphical symbols
- NFPA 1901 Standard for Automotive Fire Apparatus
- NFPA 1906 Standard for Wildland Fire Apparatus
- NFPA 414 Standard for Airport Rescue and Fire Fighting Vehicles.

## 3 - Definitions

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**Symbol** A visually perceptible figure used to transmit information independent of language. It may be produced by drawing, printing, or other means.

## 4 - General

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1. New symbol ideas should be forwarded to FAMA. The FAMA Graphical Symbols group will consider new symbols at each FAMA technical committee meeting and add new symbols as appropriate.
2. Use symbols as shown in this document. However, symbols which are shown in outline form may be filled in actual use for enhanced clarity of reproduction and improved visual perception by the operator, unless otherwise noted for individual symbols. Refer to IEC 80416-3.
3. Limitations inherent in some reproduction and display technologies may require increased line thickness or other minor modifications of symbols. Such modifications are acceptable provided the symbol is unchanged in its basic graphical elements and remains easily discernible by the operator.
4. To improve the appearance and perceptibility of a graphical symbol, or to coordinate with the design of the equipment to which the symbol is applied, it may be necessary to change the line thickness or round the corners of a symbol. The graphic designer is free to make such changes, provided that the essential perceptual characteristics of the symbol are maintained.



# Graphical Symbols for Automotive Fire Apparatus

5. For actual use, all symbols shall be reproduced large enough to be easily discernible by the operator. See IEC 80416-1 for guidelines on the proper sizing of symbols. Symbols grouped together in a display or on a set of controls should be scaled to the same degree relative to the corner marks of the original symbol as shown in this in this document in order to maintain the correct visual relationship among the symbols. Symbols shall be used in the orientation shown in unless otherwise noted for individual symbols.
6. Most symbols are constructed using a building block approach in which various symbols and symbol elements are combined in a logical manner to produce new symbols.
7. Symbols are generally intended to replace a word or words with a graphical representation that has the same meaning for all operators, regardless of their native language. However, the use of a graphical symbol to identify a control or display does not preclude the use of words in conjunction with that control or display.
8. Symbols on controls and displays shall have good contrast to their background. Displays may use either a light symbol on a dark background or a dark symbol on a light background, depending upon which alternative provides the best visual perception. When a symbol image is reversed (for example, from black-on-white to white-on-black and vice versa), it shall be done for the entire symbol.
9. Symbols shall be located on or adjacent to the control or display that is being identified. Where more than one symbol is required for a control, the symbols shall be located in relation to the control such that movement of the control toward the symbol shall effect the function depicted by that symbol.
10. Reference numbers and the standards they come from are provided for each symbol not unique to this document. This list is not exhaustive. Certain symbols may be found in more than one standard, or in standards not referenced here.
11. Symbols are shown within the outer limits of a 24 mm square grid (32 percent of original ISO graphics grid size). Corner marks delimit the corners of the 75 mm square graphics grid from IEC 80416-1. Corner marks are not part of the symbol itself

## 5 - Color

1. When used to indicate operating status or condition, the following colors have meaning as follows:

|        |  |
|--------|--|
| Red    | The color red shall denote a failure, serious malfunction, or dangerous operating condition that requires immediate attention. |
| Yellow | The color yellow or amber denotes a condition outside normal operating limits or approaching a dangerous operating condition.  |
| Green  | The color green or denotes a normal operating condition.   |

2. Color coding should not be used to provide any unique information since 7 percent of the male population is color blind. Use colors to assist if desired but the operator should not need to rely on the colors for essential information.
3. The following color chart may be used to produce standard safety colors:

| Color  | Pantone | Process Color |    |     |    | sRGB |     |     | HTML Code |
|--------|---------|---------------|----|-----|----|------|-----|-----|-----------|
|        |         | C             | M  | Y   | K  | R    | G   | B   |           |
| Blue   | 2945C   | 100           | 52 | 2   | 12 | 0    | 84  | 159 | 00549F    |
| Green  | 3415C   | 100           | 5  | 72  | 24 | 0    | 122 | 77  | 007A4D    |
| Orange | 152C    | 0             | 62 | 100 | 0  | 225  | 112 | 0   | E17000    |
| Red    | 485C    | 0             | 93 | 95  | 0  | 213  | 43  | 30  | D52B1E    |
| White  |         | 0             | 0  | 0   | 0  | 255  | 255 | 255 | FFFFFF    |
| Yellow | 109C    | 0             | 10 | 100 | 0  | 254  | 209 | 0   | FED100    |

## 6 - Adaptation of Symbols as Digital Display Icons

Symbols may be adapted for use as digital display icons on reconfigurable or other electronic displays. Such adaptations should follow the principles of ISO 80416-4. Special care should be taken to ensure that digital display icons preserve the visual impression of the symbol from which the icon is adapted



## 7 - Application Rules

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### 1. Numbering Discharges

Number all driver side discharges beginning at the exact center of the apparatus front bumper using odd numbers going CCW around the driver side and ending before the center of the rear bumper

Number all passenger side discharges beginning just past the center of the apparatus front bumper using even numbers going CW around the passenger side and ending at the exact center of the rear bumper

### 2. Numbering Intakes

Number all driver side intakes beginning at the exact center of the apparatus front bumper using odd numbers going CCW around the driver side and ending before the center of the rear bumper

Number all passenger side intakes beginning just past the center of the apparatus front bumper using even numbers going CW around the passenger side and ending at the exact center of the rear bumper

### 3. Numbering Scene Light Switches

For instances when there are multiple lights of the same description, number driver side lights beginning at the front of the apparatus using odd numbers. Use even numbers on the passenger side.

### 4. Numbering Electrical Outlets

Number each electrical outlet circuit. Number each circuit at the circuit breaker or fuse panel. This can be accomplished by directly labeling the fuse or breaker, or by providing a diagram.

Use the Electrical Outlet symbol to label each outlet or cord reel with the number of its corresponding circuit, the circuit voltage, and the circuit amperage. Each circuit may have more than one outlet, so there may be several outlets with identical labels.



## 5. Symbols with Multiple uses

One of the main goals of this document is to keep the symbols simple and to minimize the number symbols. Keeping with this philosophy, many symbols can be employed to indicate multiple functions. Example: When the water discharge symbol is located on or next to the control it will be apparent that the label is identifying the water discharge control function. When the same symbol is placed next to the discharge outlet it is apparent that the label is identifying the discharge outlet. When the same symbol is located below the pressure gauge it is apparent that the symbol is describing the function of the gauge. For this reason separate symbols for control, outlet, and pressure are not needed.

## 6. Monitors

If there are multiple monitors on the same apparatus they should be numbered. Number monitors consecutively beginning at the front of the apparatus and moving to the back, then up the aerial device.

## 7. Aerial Symbols

Where there are multiple devices on the same apparatus, and one of them is associated with the aerial, it is permissible to use the aerial symbol in place of the numbering system.

## 8. Aerial Monitor Numbering

Number the monitors on an aerial by starting at the center tip of the ladder or in the center of the basket facing along the device. Number monitors to the left with even numbers and to the right as odd numbers and then increasing the number going down the device toward the base.

## 9. Manual Override Function

Label manual override valves on aerial device functions with the switch interlock override symbol above each of the specific control function symbols.





## 8 – Base Symbols

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 8.01          |                  | Water                             | 0536             | ISO 7000           |
| 8.02          |                  | Foam Concentrate                  | 3.3.2            | CEN 5989:2010      |
| 8.03          |                  | Foam Solution                     | 3.3.3            | CEN 5989:2010      |
| 8.04          |                  | Powder                            | 3.3.4            | CEN 5989:2010      |
| 8.05          |                  | Compressed Air Foam (CAF) Wet     | None             | —                  |
| 8.06          |                  | Compressed Air Foam (CAF) Dry     | None             | —                  |

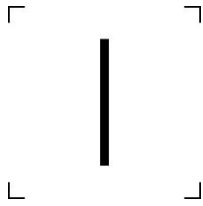
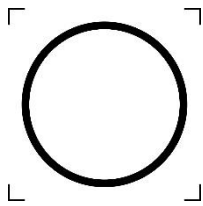
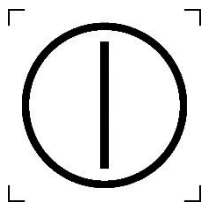
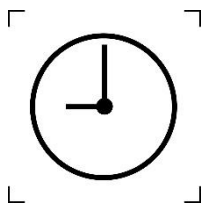

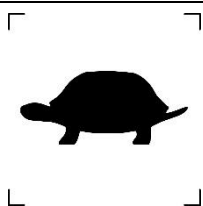


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application       | Reference Number | Reference Standard |
|---------------|------------------|---|------------------|--------------------|
| 8.07          |                  | Halotron                                | None             | —                  |
| 8.08          |                  | Location Left Front – Cab or Apparatus  | None             | —                  |
| 8.09          |                  | Location Right Front – Cab or Apparatus | None             | —                  |
| 8.10          |                  | Location Left Rear – Cab or Apparatus   | None             | —                  |
| 8.11          |                  | Location Right Rear – Cab or Apparatus  | None             | —                  |








## 9 – General

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 9.01          |    | <b>On / Start</b> Use independently or in conjunction with other symbols. Do not use as a graphical element in developing combined symbols per Clause 4.5 | 5007             | IEC 60417          |
| 9.02          |    | <b>Off / Stop</b> Use independently or in conjunction with other symbols. Do not use as a graphical element in developing combined symbols per Clause 4.5 | 5008             | IEC 60417          |
| 9.03          |   | <b>On and Off</b> Use independently or in conjunction with other symbols. Do not use as a graphical element in developing combined symbols per Clause 4.5 | 5010             | IEC 60417          |
| 9.04          |  | <b>Clock / Time Switch / Timer</b>  | 5184             | IEC 60417          |
| 9.05          |  | <b>Fast</b> This symbol is published without a registration number in the ISO standards indicated.  | 9.15             | SAE J1362          |
| 9.06          |  | <b>Slow</b> This symbol is published without a registration number in the ISO standards indicated.  | 9.26             | SAE J1362          |

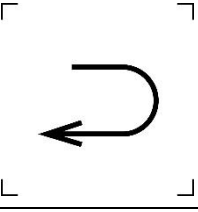
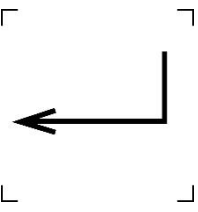
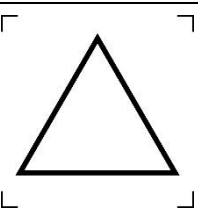
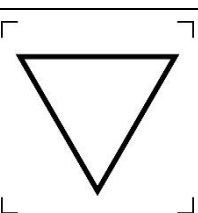

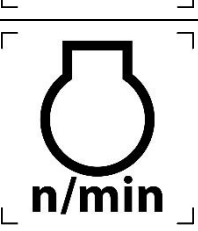


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 9.07          |    | <b>Continuously Variable — Linear</b>  | 5004             | IEC 60417          |
| 9.08          |    | <b>Continuously Variable — Rotational</b>  | 1364             | ISO 7000           |
| 9.09          |   | <b>Unlock</b><br>- or -<br><b>Switch Interlock</b><br>Use to label a switch or control that must be held in the engaged position to allow another switch or control to function ("dead-man" feature) | 9.36             | SAE J1362          |
| 9.10          |  | <b>Bell</b><br>- or -<br><b>Alarm</b> Use as an "urgent alert" indicator to call attention to another (already existing) symbol.   | 2301             | ISO 7000           |
| 9.11          |  | <b>Manual Operation / Manual Start</b><br>Use as a symbol element in a combined symbol or in conjunction with a function symbol to indicate manual operating mode.                                   | 0096             | ISO 7000           |
| 9.12          | <b>AUTO</b>   | <b>Automatic Operation / Automatic Start</b> Use as a symbol element in a combined symbol or in conjunction with a function symbol to indicate automatic operating mode.                             | 9.49             | SAE J1362          |

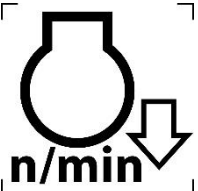

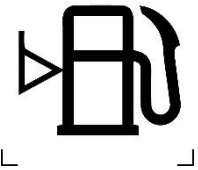

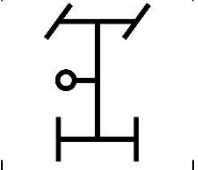
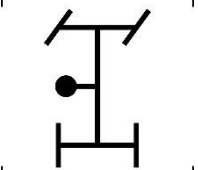


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 9.13          |    | Back                              | None             | —                  |
| 9.14          |    | Select                            | None             | —                  |
| 9.15          |   | Up                                | None             | —                  |
| 9.16          |  | Down                              | None             | —                  |
| 9.17          |  | Warning                           | None             | —                  |
| 9.18          |  | Engine — Rotational Speed         | 1389             | ISO 7000           |

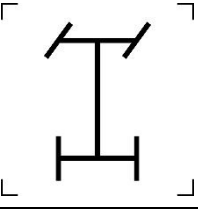
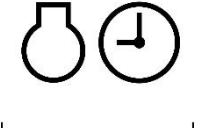
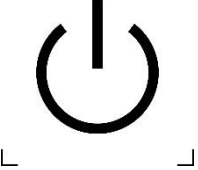





# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 9.19          |    | Engine — Rotational Speed — Instantaneous Decrease                                      | 2308             | ISO 7000           |
| 9.20          |    | Engine Coolant  | 1377             | ISO 7000           |
| 9.21          |   | Fuel — Level  | 1551             | ISO 7000           |
| 9.22          |  | <b>Emergency Stop</b> To be shown with white border, red background, and white letters. | 10.31            | SAE J1362          |
| 9.23          |  | Power Take-Off (PTO)  | 3.1.30           | CEN 5989:2010      |
| 9.24          |  | Power Take-Off Engage   | 3.1.31           | CEN 5989:2010      |






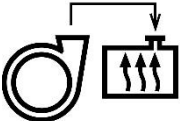


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 9.25          |    | <b>Road Mode</b> Mid-ship pump disengaged and vehicle is ready to drive.   | None             | —                  |
| 9.26          |    | Engine Operating Hours   | None             | —                  |
| 9.27          |   | Standby  | None             | —                  |
| 9.28          |  | <b>Breathing Air (SCBA)</b> Indicate max pressure for breathing air outlets. Symbol without the pressure designations can be used to indicate SCBA storage locations, brackets, etc... | None             | —                  |
| 9.29          |  | Siren, Mechanical  | None             | —                  |
| 9.30          |  | Horn   | 0244             | ISO 7000           |



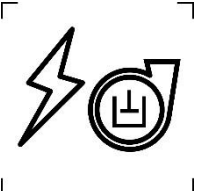
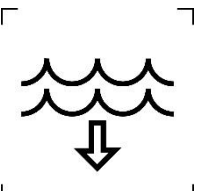
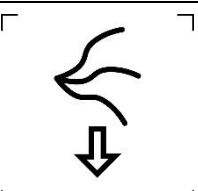
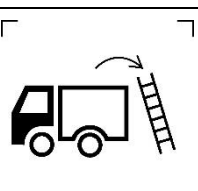
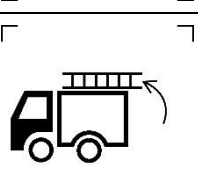
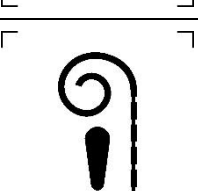
# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 9.31          |    | Air Horn  | None             | —                  |
| 9.32          |    | <b>Foam Pressure</b> Foam pressure can also be indicated by placing the basic foam symbol on or underneath the foam pressure gauge.   | None             | —                  |
| 9.33          |  | <b>Hydraulic Pressure</b> Hydraulic pressure can also be indicated by placing the basic hydraulic symbol on or underneath the hydraulic pressure gauge.                         | None             | —                  |
| 9.34          |  | Hydraulic Pump  | None             | —                  |
| 9.35          |  | Air Compressor  | None             | —                  |
| 9.36          |  | <b>Radiator Re-Fill</b> Use this symbol for the method of refilling the radiator with water from the fire suppression pump in the event that the cooling system springs a leak. | None             | —                  |











# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 9.37          |    | <b>Emergency Power Unit</b> Use this symbol for the electric-over-hydraulic pump used to provide emergency hydraulic power in the event of a main apparatus engine or hydraulic pump failure. | None             | —                  |
| 9.38          |    | <b>Water Flush</b> Use this symbol for control valves or fittings that allow a system to be flushed with water.   | None             | —                  |
| 9.39          |   | <b>Air Purge or Drain</b> Use this symbol for control valves or fittings that allow a system to be purged with air, or a valve that allows a compressed air device or system to be drained.   | None             | —                  |
| 9.40          |  | <b>Ladder Rack Down</b> Use this symbol for control of any powered ladder rack or gantry.   | None             | —                  |
| 9.41          |  | <b>Ladder Rack Up</b> Use this symbol for control of any powered ladder rack or gantry.   | None             | —                  |
| 9.42          |  | <b>Compartment Door Alert</b> Use this symbol to indicate that a compartment door is not secured.   | None             | —                  |


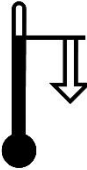


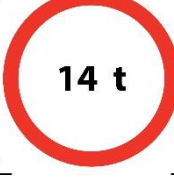



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 9.43          |    | Pumper Apparatus                  | None             | —                  |
| 9.44          |    | Aerial Ladder Apparatus           | None             | —                  |
| 9.45          |   | Suspension, Front                 | None             | —                  |
| 9.46          |  | Suspension, Rear                  | None             | —                  |
| 9.47          |  | Helmet Restraint                  | None             | —                  |
| 9.48          |  | Compartment Door                  | None             | —                  |




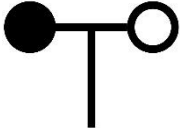




# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard    |
|---------------|---|--|------------------|-----------------------|
| 9.49          |    | Fire Equipment Restraint   | None             | —                     |
| 9.50          |    | Auxiliary Cooler   | 0036<br>3.3.5    | ISO 7000<br>CEN 15989 |
| 9.51          |   | <b>Height of vehicle, hint for driver</b><br><br>Fit the sign in the view of driver; diameter of sign approximately 50 mm. Value in feet (ft) and inches (in), or meters(m). | 3.3.6            | CEN 15989             |
| 9.52          |  | <b>Width of vehicle, hint for driver</b><br><br>Fit the sign in the view of driver; diameter of sign approximately 50 mm. Value in feet (ft) and inches (in), or meters(m).  | 3.3.7            | CEN 15989             |
| 9.53          |  | <b>GVWR of vehicle, hint for driver</b><br><br>Fit the sign in the view of driver; diameter of sign approximately 50 mm. Value in tons (t) or metric tons (t)                | 3.3.8            | CEN 15989             |
| 9.54          |  | <b>Fording depth, water crossing ability</b><br><br>Fit the sign outside in the appropriate height at driver side of the cabin; width of the symbol at least 50 mm           | 3.3.9            | CEN 15989             |


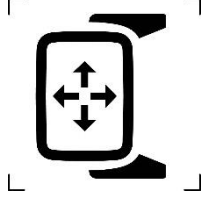
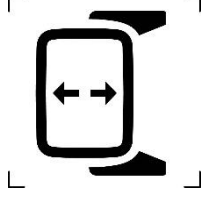
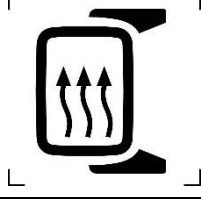
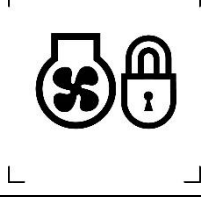



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard    |
|---------------|---|---|------------------|-----------------------|
| 9.55          |    | <b>Fording depth, water crossing ability, hint for driver</b><br><br>Fit the sign in the view of driver; diameter of sign approximately 50 mm | 3.3.10           | CEN 15989             |
| 9.56          |    | <b>Video Camera</b>   | 3.3.20           | CEN 15989             |
| 9.57          |   | <b>Rear View Video Camera</b>   | 3.3.21           | CEN 15989             |
| 9.58          |  | <b>Wind Speed</b>   | 1698<br>3.10.27  | ISO 7000<br>CEN 15989 |
| 9.59          |  | <b>Compartment Door Open</b>  | 3.3.15           | CEN 15989             |
| 9.60          |  | <b>Apparatus Front View</b>   | None             | —                     |


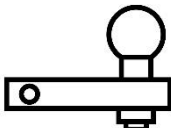






# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application            | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 9.61          |    | Aerial Apparatus Front View                  | None             | —                  |
| 9.62          |    | Exterior Rear View Mirror – 4-Way Adjustment | 2469             | ISO 7000           |
| 9.63          |   | Exterior Rear View Mirror – 2-Way Adjustment | None             | —                  |
| 9.64          |  | Exterior Rear View Mirror – Heat             | 2470             | ISO 7000           |
| 9.65          |  | Engine Cooling Fan Clutch Lock               | None             | —                  |
| 9.66          |  | Traffic Signal Preemption OFF                | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 9.67          |    | Engine Emergency Shut-Down        | None             | —                  |
| 9.68          |    | Ball Hitch or Ball Hitch Receiver | None             | —                  |
| 9.69          |   | Tanker or Tender                  | None             | —                  |
| 9.70          |  | Brush Truck or Mini-Pumper        | None             | —                  |
| 9.71          |  | Wildland Apparatus                | None             | —                  |
| 9.72          |  | Digital Alert Warning System      | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application                 | Reference Number | Reference Standard |
|---------------|------------------|---|------------------|--------------------|
| 9.73          |                  | Siren Brake                                       | None             | —                  |
| 9.74          |                  | Automatic Tire Chains                             | None             | —                  |
| 9.75          |                  | Siren Operated by Steering Wheel Center Switch    | None             | —                  |
| 9.76          |                  | Air Horn Operated by Steering Wheel Center Switch | None             | —                  |
| 9.77          |                  | Generator PTO Engage                              | None             | —                  |
| 9.78          |                  | Air Compressor PTO Engage                         | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application                             | Reference Number | Reference Standard |
|---------------|------------------|---|------------------|--------------------|
| 9.79          |                  | Transmission Retarder or Brake                                | None             | —                  |
| 9.80          |                  | Engine Compression or Exhaust Brake                           | None             | —                  |
| 9.81          |                  | Neutral   | None             | —                  |
| 9.82          |                  | Cab Heat  | None             | —                  |
| 9.83          |                  | Electronic Siren  | None             | —                  |
| 9.84          |                  | Electronic Siren Activated through Steering Wheel Horn Button | None             | —                  |



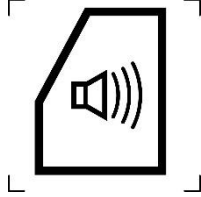

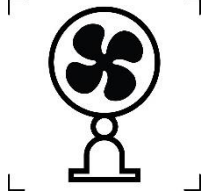


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application        | Reference Number | Reference Standard |
|---------------|------------------|--|------------------|--------------------|
| 9.85          |                  | Front Axle Brake Lock                    | None             | —                  |
| 9.86          |                  | Extrication Tools                        | None             | —                  |
| 9.87          |                  | Low Frequency Electronic Siren (Rumbler) | None             | —                  |
| 9.88          |                  | AM/FM Radio or Stereo                    | None             | —                  |
| 9.89          |                  | Engine Emergency Stop Reset              | None             | —                  |
| 9.90          |                  | Buzzer Sounding in Cab                   | None             | —                  |

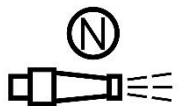
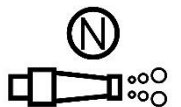
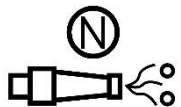
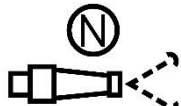




# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol   | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|--|-----------------------------------|------------------|--------------------|
| 9.91          |   | Buzzer Sounding in Tiller Cab     | None             | —                  |
| 9.92          |   | Buzzer Sounding at Body           | None             | —                  |
| 9.93          |  | Defog Fan                         | None             | —                  |

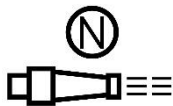
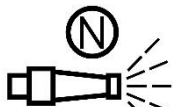
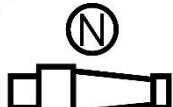
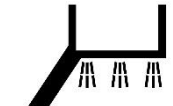




## 10 – Discharges and Intakes

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 10.01         |    | <b>Water Discharge</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match.         | None             | —                  |
| 10.02         |    | <b>Foam Discharge</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match.          | None             | —                  |
| 10.03         |  | <b>CAFS Discharge</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match.          | None             | —                  |
| 10.04         |  | <b>Powder Discharge</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match.        | None             | —                  |
| 10.05         |  | <b>Foam or Water Discharge</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match. | None             | —                  |
| 10.06         |  | <b>CAFS or Water Discharge</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match. | None             | —                  |

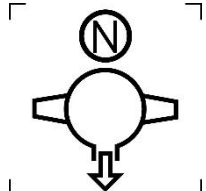
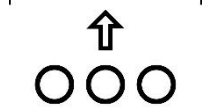
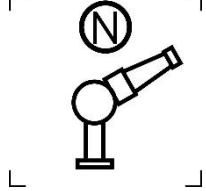
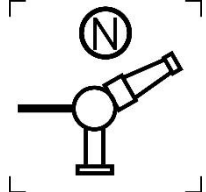
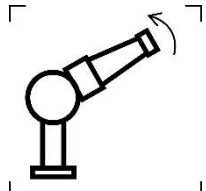
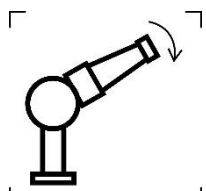


# Graphical Symbols for Automotive Fire Apparatus

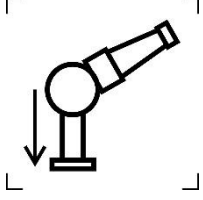
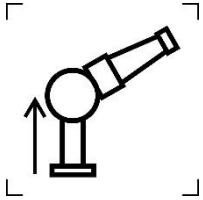
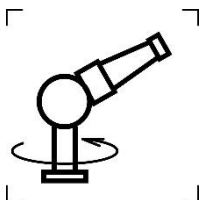
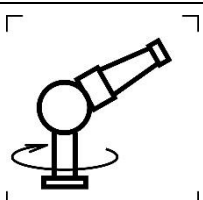
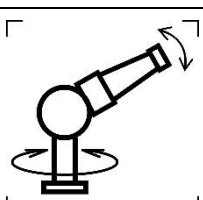
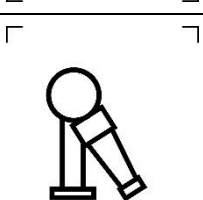
| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 10.07         |    | Stream  | None             | —                  |
| 10.08         |    | Fog   | None             | —                  |
| 10.09         |   | <b>Discharge Drain or Bleeder</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match. | None             | —                  |
| 10.10         |  | Aerial Platform Water Curtain   | None             | —                  |
| 10.11         |  | Pavement Cooler Discharge   | None             | —                  |
| 10.12         |  | <b>Intake</b> Replace “N” with a number designation so that the corresponding control, gauge, and function or device all match.                     | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 10.13         |    | <b>Intake Drain or Bleeder</b> Replace "N" with a number designation so that the corresponding control, gauge, and function or device all match. | None             | —                  |
| 10.14         |    | <b>Foam Intake</b>   | None             | —                  |
| 10.15         |   | <b>Remote Monitor</b> Replace "N" with a number designation so that the corresponding control, gauge, and function or device all match.          | None             | —                  |
| 10.16         |  | <b>Manual Monitor</b> Replace "N" with a number designation so that the corresponding control, gauge, and function or device all match.          | None             | —                  |
| 10.17         |  | <b>Monitor Elevate</b>   | None             | —                  |
| 10.18         |  | <b>Monitor Depress</b>   | None             | —                  |



| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 10.19         |    | Monitor Lower                     | None             | —                  |
| 10.20         |    | Monitor Raise                     | None             | —                  |
| 10.21         |   | Monitor Rotate CCW                | None             | —                  |
| 10.22         |  | Monitor Rotate CW                 | None             | —                  |
| 10.23         |  | Monitor Oscillate                 | None             | —                  |
| 10.24         |  | Monitor Stow                      | None             | —                  |

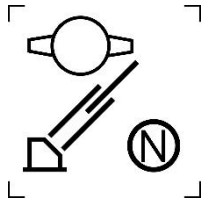
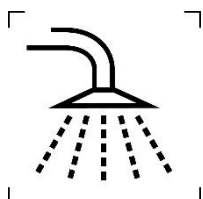
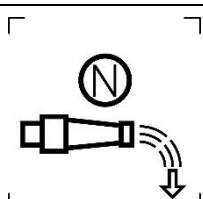
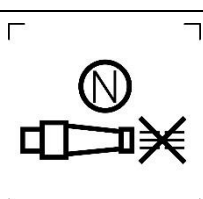
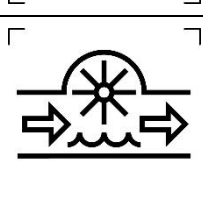
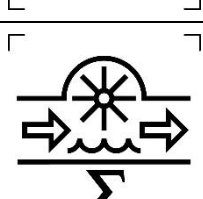


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 10.25         |                  | Monitor Drain or Bleed            | None             | —                  |
| 10.26         |                  | Aerial Water Discharge            | None             | —                  |
| 10.27         |                  | Aerial Foam Discharge             | None             | —                  |
| 10.28         |                  | Aerial CAF Discharge              | None             | —                  |
| 10.29         |                  | Aerial Powder Discharge           | None             | —                  |
| 10.30         |                  | Aerial Discharge Drain            | None             | —                  |



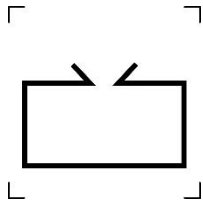
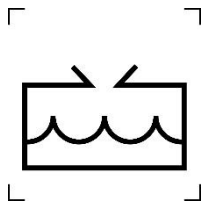
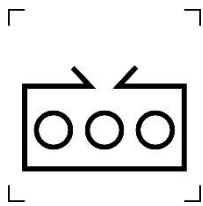
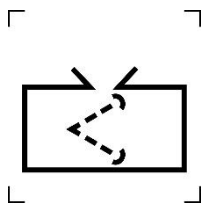
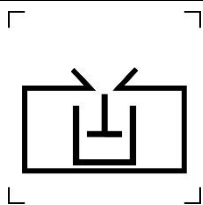
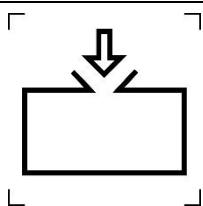
# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 10.31         |    | Aerial Intake                     | None             | —                  |
| 10.32         |    | Shower Discharge                  | None             | —                  |
| 10.33         |   | Nozzle Flush                      | None             | —                  |
| 10.34         |  | Nozzle Off                        | None             | —                  |
| 10.35         |  | Water Flow Rate                   | None             | —                  |
| 10.36         |  | Water Flow Total                  | None             | —                  |



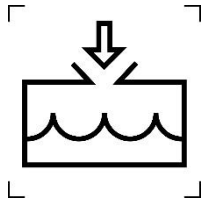
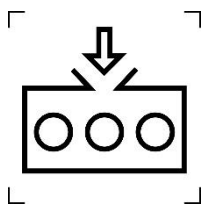
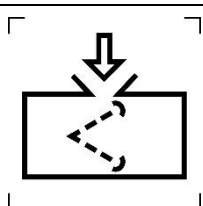
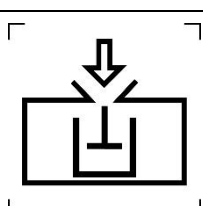
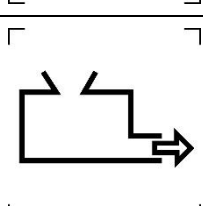
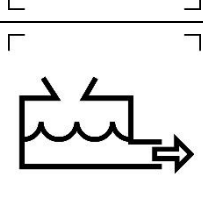


## 11 - Tanks

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard    |
|---------------|---|-----------------------------------|------------------|-----------------------|
| 11.01         |    | Tank                              | None             | —                     |
| 11.02         |    | Water Tank                        | 3.5.1            | CEN 15989             |
| 11.03         |   | Foam Tank                         | 3.5.2            | CEN 15989             |
| 11.04         |  | Powder Tank                       | None             | —                     |
| 11.05         |  | Hydraulic Tank                    | None             | —                     |
| 11.06         |  | Tank Fill                         | 3.5.3<br>0028    | CEN 15989<br>ISO 7000 |

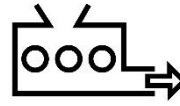
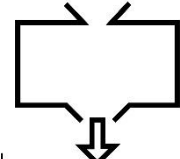
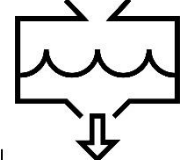
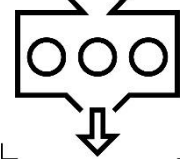
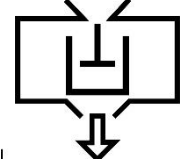
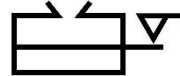


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 11.07         |    | <b>Water Tank Fill</b> Use this symbol for both top and direct tank fill locations. | None             | —                  |
| 11.08         |    | <b>Foam Tank Fill</b>   | None             | —                  |
| 11.09         |   | <b>Powder Tank Fill</b>   | None             | —                  |
| 11.10         |  | <b>Hydraulic Tank Fill</b>  | None             | —                  |
| 11.11         |  | <b>Tank Outlet</b>  | 3.5.7            | CEN 15989          |
| 11.12         |  | <b>Water Tank Outlet</b>  | None             | —                  |


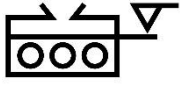

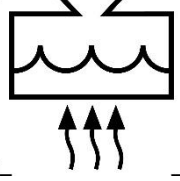
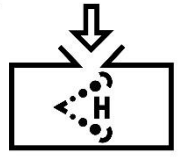
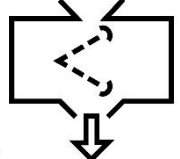


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard    |
|---------------|---|-----------------------------------|------------------|-----------------------|
| 11.13         |    | Foam Tank Outlet                  | None             | —                     |
| 11.14         |    | Tank Drain                        | 3.5.6<br>0029    | CEN 15989<br>ISO 7000 |
| 11.15         |   | Water Tank Drain                  | None             | —                     |
| 11.16         |  | Foam Tank Drain                   | None             | —                     |
| 11.17         |  | Hydraulic Tank Drain              | None             | —                     |
| 11.18         |  | Tank Level                        | 3.5.9            | CEN 15989             |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 11.19         |    | Water Tank Level                  | None             | —                  |
| 11.20         |    | Foam Tank Level                   | None             | —                  |
| 11.21         |  | Hydraulic Tank Level              | None             | —                  |
| 11.22         |  | Water Tank Heater                 | None             | —                  |
| 11.23         |  | Halotron Tank Fill                | None             | —                  |
| 11.24         |  | Powder Tank Drain                 | None             | —                  |

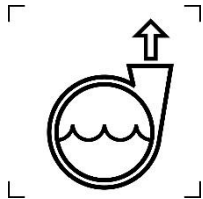
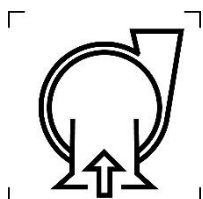
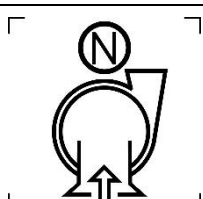
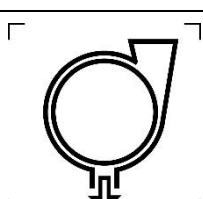
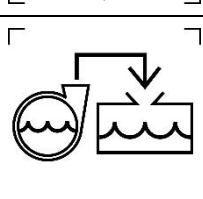
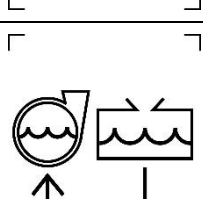


## 12 - Fire Suppression Pump Functions and Features

| Symbol Number | Graphical Symbol | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|------------------|--|------------------|--------------------|
| 12.01         |                  | Pump   | 3.4.1            | CEN 15989          |
| 12.02         |                  | Pump Engage  | None             | —                  |
| 12.03         |                  | Pump Engage Manually   | None             | —                  |
| 12.04         |                  | Water Pump Engage  | None             | —                  |
| 12.05         |                  | Foam Pump Engage   | None             | —                  |
| 12.06         |                  | <b>Pump Intake</b> Use this symbol to label the master pump intake pressure gauge and to label the pump intake valve if there is only one intake valve on the apparatus. | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 12.07         |    | <b>Pump Discharge</b> Use this symbol to label the master pump discharge pressure gauge and to label the pump discharge valve if there is only one discharge valve on the apparatus. | None             | —                  |
| 12.08         |    | <b>Pump Priming</b> Use this symbol when there is only one pump priming device on the apparatus.   | 3.4.2            | CEN 15989          |
| 12.09         |   | <b>Pump Priming</b> Use this symbol when there are more than one priming pumps on the apparatus. Replace “N” with a number to match the pump with its control                        | None             | —                  |
| 12.10         |  | <b>Pump Drain</b>  | 3.4.5            | CEN 15989          |
| 12.11         |  | <b>Pump-to-Tank Valve</b>  | None             | —                  |
| 12.12         |  | <b>Tank-to-Pump Valve</b>  | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|------------------|--|------------------|--------------------|
| 12.13         |                  | <b>Pump Cooling Recirculation Valve</b>  | None             | —                  |
| 12.14         |                  | <b>Pump Water Temperature</b> Use this symbol illuminated in red, or in conjunction with a red lamp, to indicate that the pump water temperature is at a critical level. Use without color to label a pump water temperature gauge.                      | None             | —                  |
| 12.15         |                  | <b>Pump Transmission Temperature</b> Use this symbol illuminated in red, or in conjunction with a red lamp, to indicate that the pump transmission temperature is at a critical level. Use without color to label a pump transmission temperature gauge. | None             | —                  |
| 12.16         |                  | <b>Water Pump Discharge Relief</b>   | None             | —                  |
| 12.17         |                  | <b>Foam Pump Discharge Relief</b>  | None             | —                  |
| 12.18         |                  | <b>Pump, Low Pressure</b> Use this symbol to label the low pressure control position on a pump which has multiple pressure settings. This would be the single-stage setting of a two-stage pump.   | None             | —                  |




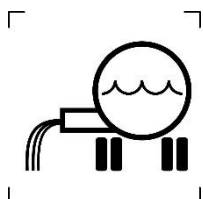
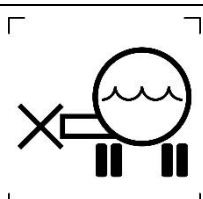
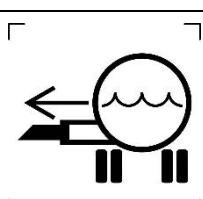
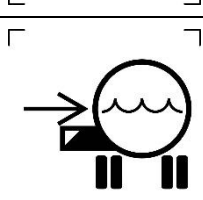
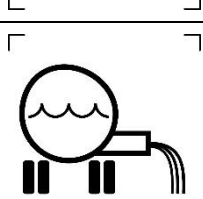
# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|------------------|---|------------------|--------------------|
| 12.19         |                  | <b>Pump, High Pressure</b> Use this symbol to label the high pressure control position on a pump which has multiple pressure settings. This would be the two-stage setting of a two-stage pump. | None             | —                  |
| 12.20         |                  | <b>Pump, Ultra High Pressure</b> Use this symbol to label the highest pressure control position on a pump which has more than two pressure settings.  | None             | —                  |
| 12.21         |                  | <b>Pump Heater</b>  | None             | —                  |
| 12.22         |                  | <b>Pump Compartment Heater</b>  | None             | —                  |
| 12.23         |                  | <b>Pump Hours</b> Use this symbol to label the meter that keeps track of the running time for the fire suppression pump.  | None             | —                  |
| 12.24         |                  | <b>Pump Pressure Governor</b>   | None             | —                  |





# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 12.25         |    | OK to Pump                        | None             | —                  |
| 12.26         |    | Dump Chute Left OPEN              | None             | —                  |
| 12.27         |   | Dump Chute Left CLOSE             | None             | —                  |
| 12.28         |  | Dump Chute Left EXTEND            | None             | —                  |
| 12.29         |  | Dump Chute Left RETRACT           | None             | —                  |
| 12.30         |  | Dump Chute Right OPEN             | None             | —                  |

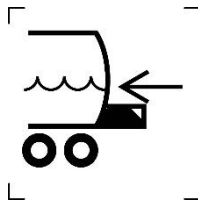




# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 12.31         |                  | Dump Chute Right CLOSE            | None             | —                  |
| 12.32         |                  | Dump Chute Right EXTEND           | None             | —                  |
| 12.33         |                  | Dump Chute Right RETRACT          | None             | —                  |
| 12.34         |                  | Dump Chute Rear OPEN              | None             | —                  |
| 12.35         |                  | Dump Chute Rear CLOSE             | None             | —                  |
| 12.36         |                  | Dump Chute Rear EXTEND            | None             | —                  |

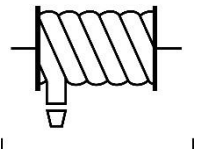
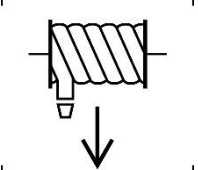
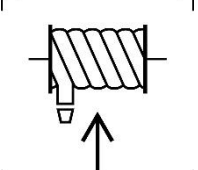

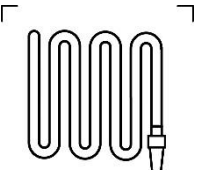



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol   | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|--|-----------------------------------|------------------|--------------------|
| 12.37         |   | Dump Chute Rear RETRACT           | None             | —                  |
| 12.38         |   | Foam Pump                         | None             | —                  |
| 12.39         |  | Foam Pump OFF                     | None             | —                  |



## 13 - Hose

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 13.01         |    | Hose Reel   | 3.8.13           | CEN 15989          |
| 13.02         |    | Hose Reel Wind Out  | 3.8.15           | CEN 15989          |
| 13.03         |   | Hose Reel Wind In   | 3.8.14           | CEN 15989          |
| 13.04         |  | <b>Pre-Connect Hose</b> Replace "N" with a number designation so that the corresponding control, gauge, and function or device all match. | None             | —                  |
| 13.05         |  | Hose  | None             | —                  |
| 13.06         |  | Hose Restraint  | None             | —                  |

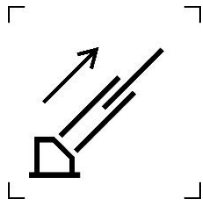
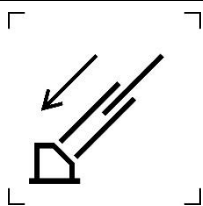
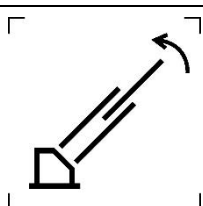
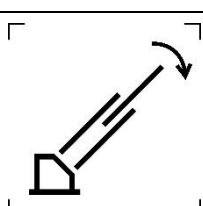
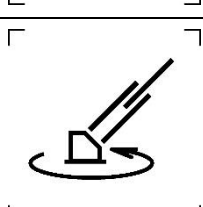
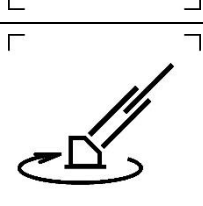


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 13.07         |                  | Hose Bed Cover OPEN               | None             | —                  |
| 13.08         |                  | Hose Bed Cover CLOSE              | None             | —                  |
| 13.09         |                  | Hose Bed Cover RH OPEN            | None             | —                  |
| 13.10         |                  | Hose Bed Cover RH CLOSE           | None             | —                  |
| 13.11         |                  | Hose Bed Cover LH OPEN            | None             | —                  |
| 13.12         |                  | Hose Bed Cover LH CLOSE           | None             | —                  |



## 14 – Aerial Device

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 14.01         |    | Aerial Extend                     | None             | —                  |
| 14.02         |    | Aerial Retract                    | None             | —                  |
| 14.03         |   | Aerial Elevate                    | None             | —                  |
| 14.04         |  | Aerial Depress                    | None             | —                  |
| 14.05         |  | Aerial Rotate CCW                 | None             | —                  |
| 14.06         |  | Aerial Rotate CW                  | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 14.07         |                  | Aerial Articulate Extend          | None             | —                  |
| 14.08         |                  | Aerial Articulate Retract         | None             | —                  |
| 14.09         |                  | Aerial Articulate Elevate         | None             | —                  |
| 14.10         |                  | Aerial Articulate Depress         | None             | —                  |
| 14.11         |                  | Aerial Boom Raise                 | None             | —                  |
| 14.12         |                  | Aerial Boom Lower                 | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 14.13         |                  | Ladder Rungs Aligned              | None             | —                  |
| 14.14         |                  | Aligned With Cradle               | None             | —                  |
| 14.15         |                  | Automatic Aerial Stowing          | None             | —                  |
| 14.16         |                  | Aerial Monitor Water Tower Mode   | None             | —                  |
| 14.17         |                  | Aerial Monitor Rescue Mode        | None             | —                  |
| 14.18         |                  | Movable Monitor Not Secure        | None             | —                  |



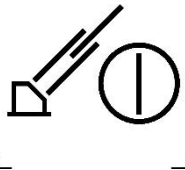


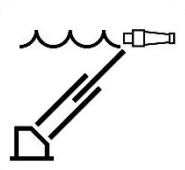
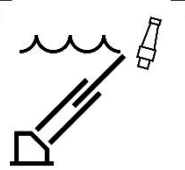



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 14.19         |                  | Aerial Overload                   | None             | —                  |
| 14.20         |                  | Aerial Platform Overload          | None             | —                  |
| 14.21         |                  | Aerial Platform Leveling          | None             | —                  |
| 14.22         |                  | Aerial Platform Rotate CCW        | None             | —                  |
| 14.23         |                  | Aerial Platform Rotate CW         | None             | —                  |
| 14.24         |                  | Aerial Hours                      | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 14.25         |    | <b>Aerial Power</b>   | None             | —                  |
| 14.26         |    | <b>Aerial Device Enable</b><br>Control that will unlock the aerial device after it has been paused by and interlock or other event.                 | None             | —                  |
| 14.27         |   | <b>Tip Controls Enable</b><br>Control that must be engaged to allow the secondary operator to control the aerial from the tip or from the platform. | None             | —                  |
| 14.28         |  | <b>Aerial Waterway Wet</b><br>Indicates that the waterway is charged or full of water   | None             | —                  |
| 14.29         |  | <b>Aerial Monitor Nozzle Angle Up</b><br>Indicates that the monitor is angled above the angle of the ladder.  | None             | —                  |
| 14.30         |  | <b>Aerial Body Collision Alert</b>  |                  |                    |

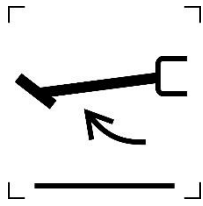
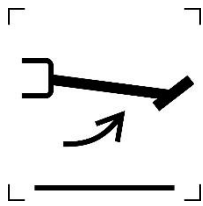
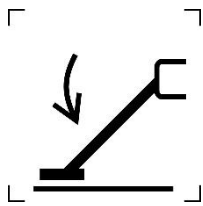
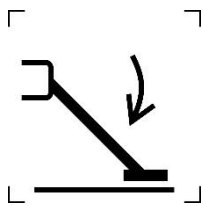
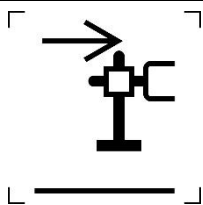
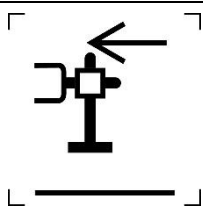


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 14.31         |                  | Aerial Body Collision - OFF       | None             | —                  |
| 14.32         |                  | Aerial Device Not Stowed          | None             | —                  |
| 14.33         |                  | Stabilizer Not Stowed             | None             | —                  |
| 14.34         |                  | Trailer Jackknife Warning         | None             | —                  |
| 14.35         |                  | Ladder Ramp Adjust                | None             | —                  |

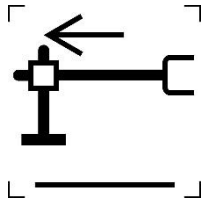
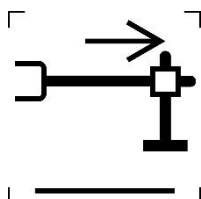
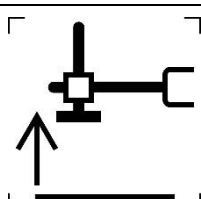
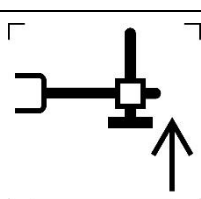
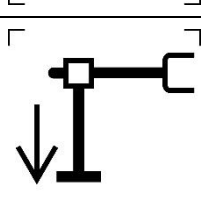
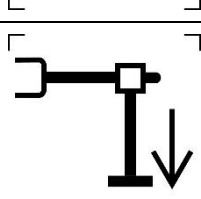


## 15 - Stabilizers

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 15.01L        |    | Left Stabilizer Up                | 23-02            | SAE J1362          |
| 15.01R        |    | Right Stabilizer Up               | 23-04            | SAE J1362          |
| 15.02L        |   | Left Stabilizer Down              | 23-01            | SAE J1362          |
| 15.02R        |  | Right Stabilizer Down             | 23-03            | SAE J1362          |
| 15.03L        |  | Left Beam In                      | 24-03            | SAE J1362          |
| 15.03R        |  | Right Beam In                     | 24-05            | SAE J1362          |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 15.04L        |    | Left Beam Out                     | 24-02            | SAE J1362          |
| 15.04R        |    | Right Beam Out                    | 24-04            | SAE J1362          |
| 15.05L        |   | Left Jack Up                      | 24-07            | SAE J1362          |
| 15.05R        |  | Right Jack Up                     | 24-09            | SAE J1362          |
| 15.06L        |  | Left Jack Down                    | 24-06            | SAE J1362          |
| 15.06R        |  | Right Jack Down                   | 24-08            | SAE J1362          |

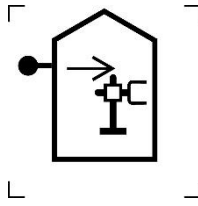
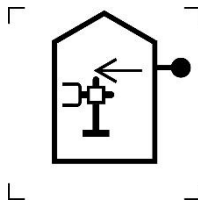
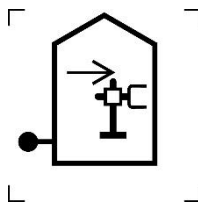
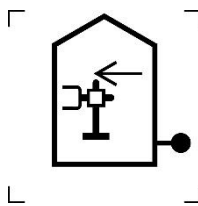
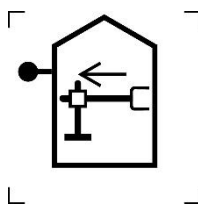
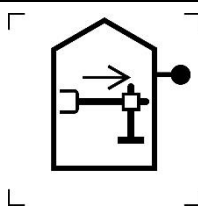


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard    |
|---------------|------------------|-----------------------------------|------------------|-----------------------|
| 15.07         |                  | Stabilizer Off-Level Warning      | None             | —                     |
| 15.08         |                  | Stabilizers Automatic Leveling    | None             | —                     |
| 15.09         |                  | Stabilizers Manual Leveling       | None             | —                     |
| 15.10         |                  | Stabilizers Short-Jacked Warning  | None             | —                     |
| 15.11         |                  | Stabilizers Set                   | 2967<br>3.1.13   | ISO 7000<br>CEN 15989 |
| 15.12         |                  | Stabilizer Locations              | 1222<br>3.1.12   | ISO 7000<br>CEN 15989 |

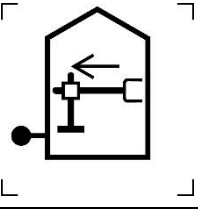
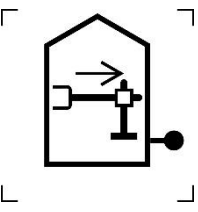
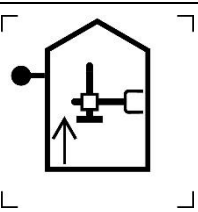
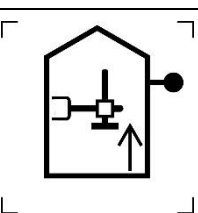
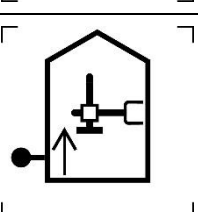
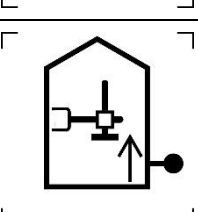


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 15.13FL       |    | Front Left Beam In                | None             | —                  |
| 15.13FR       |    | Front Right Beam In               | None             | —                  |
| 15.13RL       |   | Rear Left Beam In                 | None             | —                  |
| 15.13RR       |  | Rear Right Beam In                | None             | —                  |
| 15.14FL       |  | Front Left Beam Out               | None             | —                  |
| 15.14FR       |  | Front Right Beam Out              | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 15.14RL       |    | Rear Left Beam Out                | None             | —                  |
| 15.14RR       |    | Rear Right Beam Out               | None             | —                  |
| 15.15FL       |   | Front Left Jack Up                | None             | —                  |
| 15.15FR       |  | Front Right Jack Up               | None             | —                  |
| 15.15RL       |  | Rear Left Jack Up                 | None             | —                  |
| 15.15RR       |  | Rear Right Jack Up                | None             | —                  |





# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 15.16FL       |                  | Front Left Jack Down              | None             | —                  |
| 15.16FR       |                  | Front Right Jack Down             | None             | —                  |
| 15.16RL       |                  | Rear Left Jack Down               | None             | —                  |
| 15.16RR       |                  | Rear Right Jack Down              | None             | —                  |
| 15.17FL       |                  | Front Left Stabilizer Up          | None             | —                  |
| 15.17FR       |                  | Front Right Stabilizer Up         | None             | —                  |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|------------------|-----------------------------------|------------------|--------------------|
| 15.17RL       |                  | Rear Left Stabilizer Up           | None             | —                  |
| 15.17RR       |                  | Rear Right Stabilizer Up          | None             | —                  |
| 15.18FL       |                  | Front Left Stabilizer Down        | None             | —                  |
| 15.18FR       |                  | Front Right Stabilizer Down       | None             | —                  |
| 15.18RL       |                  | Rear Left Stabilizer Down         | None             | —                  |
| 15.18RR       |                  | Rear Right Stabilizer Down        | None             | —                  |




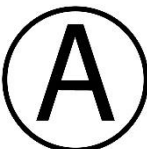

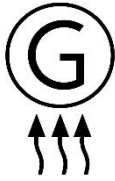

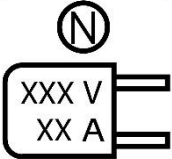
# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application  | Reference Number | Reference Standard    |
|---------------|------------------|------------------------------------|------------------|-----------------------|
| 15.19L        |                  | Left Stabilizer Extend, Inclined   | 2075<br>3.4.15   | ISO 7000<br>CEN 15989 |
| 15.19R        |                  | Right Stabilizer Extend, Inclined  | None             | —                     |
| 15.20L        |                  | Left Stabilizer Retract, Inclined  | 2076<br>3.4.16   | ISO 7000<br>CEN 15989 |
| 15.20R        |                  | Right Stabilizer Retract, Inclined | None             | —                     |



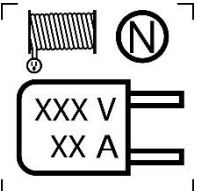
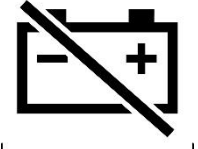
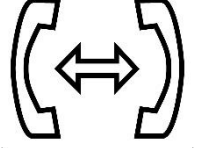

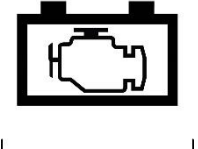
# Graphical Symbols for Automotive Fire Apparatus

## 16 - Electrical

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 16.01         |    | Battery  | 0247             | ISO 7000           |
| 16.02         |    | Ammeter  | 3.2.5            | CEN 15989          |
| 16.03         |   | Generator  | 1153             | ISO 7000           |
| 16.04         |  | Generator Pre-Heater   | None             | —                  |
| 16.05         |  | Voltmeter  | 3.2.4            | CEN 15989          |
| 16.06         |  | <b>Electrical Outlet</b> Replace "N" with the number of the circuit that it is powered from. Replace the xxx with the voltage and xx with the amperage of the circuit. | None             | —                  |

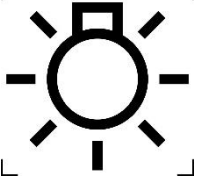







# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard    |
|---------------|---|--|------------------|-----------------------|
| 16.07         |    | <b>Electrical Cord Reel Outlet</b> Replace "N" with the number of the circuit that it is powered from. Replace the xxx with the voltage and xx with the amperage of the circuit. | None             | —                     |
| 16.08         |    | <b>Battery Disconnect; Battery Shut-Off</b>  | 2063<br>3.5.5    | ISO 7000<br>CEN 15989 |
| 16.09         |   | <b>Intercom</b>  | None             | —                     |
| 16.10         |  | <b>EV Battery Management System (BMS) Battery Indicator</b>  | None             | —                     |
| 16.11         |  | <b>Engine Starter Battery Indicator</b>  | None             | —                     |

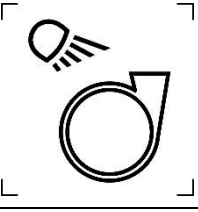
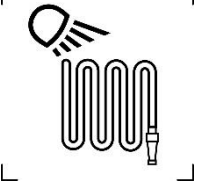






## 17 - Lighting

| Symbol Number | Graphical Symbol  | Symbol Description or Application   | Reference Number | Reference Standard     |
|---------------|---|---|------------------|------------------------|
| 17.01         |    | <b>Panel Light</b> Use this symbol for the pump panel light control, instrument panel light control, or similar lighting that illuminates controls or gauges. | 15.16<br>5012    | SAE J1362<br>IEC 60417 |
| 17.02         |    | Dome Light  | 15.7<br>1421B    | SAE J1362<br>ISO 7000  |
| 17.03         |   | Flood Light   | 1204             | ISO 7000               |
| 17.04         |  | Adjustable Work Light   | 1142             | ISO 7000               |
| 17.05         |  | Reading Light   | 3.2.10           | CEN 15989              |
| 17.06         |  | Engine Compartment Light  | None             | —                      |




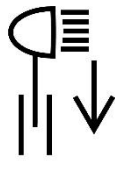




# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 17.07         |    | Pump Compartment Light            | None             | —                  |
| 17.08         |    | Hose Bed Light                    | None             | —                  |
| 17.09         |   | Front Scene Light                 | None             | —                  |
| 17.10         |  | Rear Scene Light                  | None             | —                  |
| 17.11         |  | Left Side Scene Light             | None             | —                  |
| 17.12         |  | Right Side Scene Light            | None             | —                  |



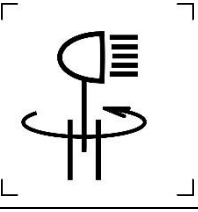
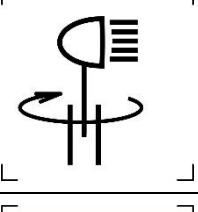
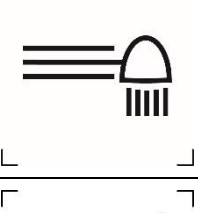
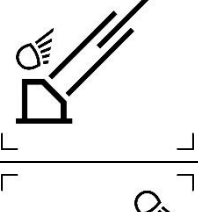
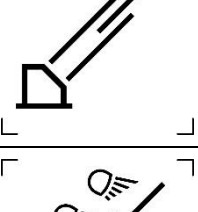

# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 17.13         |    | Perimeter Ground Lights           | None             | —                  |
| 17.14         |    | Elevating Light                   | None             | —                  |
| 17.15         |   | Elevating Light Raise             | None             | —                  |
| 17.16         |  | Elevating Light Lower             | None             | —                  |
| 17.17         |  | Elevating Light Elevate           | None             | —                  |
| 17.18         |  | Elevating Light Depress           | None             | —                  |





# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 17.19         |    | Elevating Light Rotate CCW   | None             | —                  |
| 17.20         |    | Elevating Light Rotate CW  | None             | —                  |
| 17.21         |   | <b>Elevating Light Stow</b> Use this symbol regardless of how the light and mast physically fold up. | None             | —                  |
| 17.22         |  | Aerial Base Lights   | None             | —                  |
| 17.23         |  | Aerial Tip Lights  | None             | —                  |
| 17.24         |  | Aerial Ladder Climbing Lights  | None             | —                  |




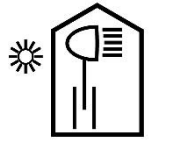
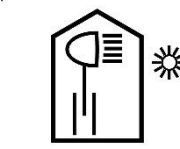



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|------------------|--|------------------|--------------------|
| 17.25         |                  | Day-Night Switch   | 3.2.9            | CEN 15989          |
| 17.26         |                  | <b>Low level interior illumination</b><br>To identify the control for the interior compartment lighting used to assist in maintaining the dark adaptation (night vision) of the operator while providing illumination to the interior. | 2667             | ISO 7000           |
| 17.27         |                  | Aerial Tip Light – Line Voltage  | None             | —                  |
| 17.28         |                  | Aerial Tip Light - Low Voltage   | None             | —                  |
| 17.29         |                  | Blocking Mode - Night  | None             | —                  |
| 17.30         |                  | Platform Bucket Bottom Lights  | None             | —                  |

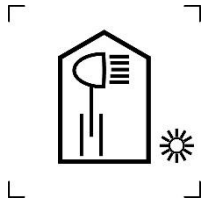
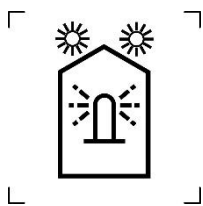
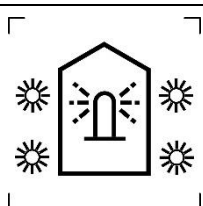
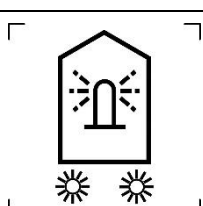
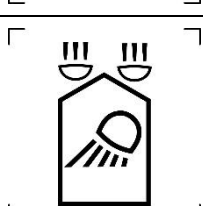
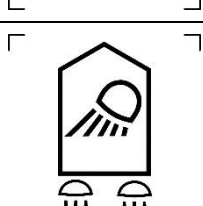


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application                         | Reference Number | Reference Standard |
|---------------|---|---|------------------|--------------------|
| 17.31         |    | Platform Bucket Front Lights                              | None             | —                  |
| 17.32         |    | Platform Bucket Side Lights                               | None             | —                  |
| 17.33         |   | Emergency Master Lighting<br>(Preferred RED Switch Color) | None             | —                  |
| 17.34         |  | Elevating Light Behind Cab Left Side                      | None             | —                  |
| 17.35         |  | Elevating Light Behind Cab Right Side                     | None             | —                  |
| 17.36         |  | Elevating Light Rear Body Left Side                       | None             | —                  |



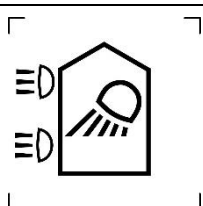
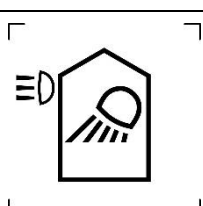
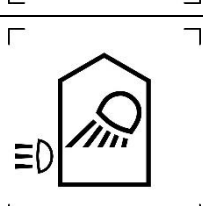
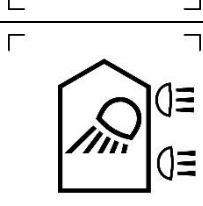


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application    | Reference Number | Reference Standard |
|---------------|---|--------------------------------------|------------------|--------------------|
| 17.37         |    | Elevating Light Rear Body Right Side | None             | —                  |
| 17.38         |    | Warning Lights, Front                | None             | —                  |
| 17.39         |   | Warning Lights, Side                 | None             | —                  |
| 17.40         |  | Warning Lights, Rear                 | None             | —                  |
| 17.41         |  | Scene Lights, Front                  | None             | —                  |
| 17.42         |  | Scene Lights, Rear                   | None             | —                  |




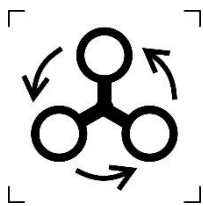

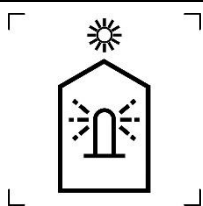


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 17.43         |    | Alley Light, Left Side            | None             | —                  |
| 17.44         |    | Alley Light, Right Side           | None             | —                  |
| 17.45         |   | Scene Lights, Left Side           | None             | —                  |
| 17.45F        |  | Scene Lights, Left, Front         | None             | —                  |
| 17.45R        |  | Scene Lights, Left, Rear          | None             | —                  |
| 17.46         |  | Scene Lights, Right Side          | None             | —                  |




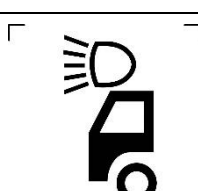
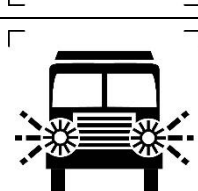
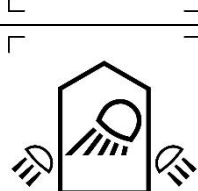


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application  | Reference Number | Reference Standard |
|---------------|---|------------------------------------|------------------|--------------------|
| 17.46F        |    | Scene Lights, Right, Front         | None             | —                  |
| 17.46R        |    | Scene Lights, Right, Rear          | None             | —                  |
| 17.47         |   | Headlamp Wig-Wag                   | None             | —                  |
| 17.48         |  | Warning Light, Mechanical Spinning | None             | —                  |
| 17.49         |  | White Warning Lights OFF           | None             | —                  |
| 17.50         |  | Warning Light, Single, Front       | None             | —                  |

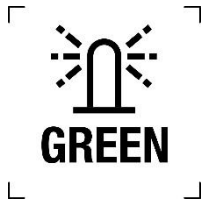
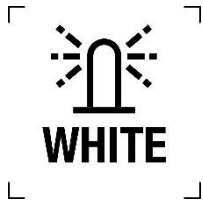






# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 17.51         |    | Compartment Light                 | None             | —                  |
| 17.52         |    | Light Bar                         | None             | —                  |
| 17.53         |   | Brow Light Narrow Beam            | None             | —                  |
| 17.54         |  | Brow Light Wide Beam              | None             | —                  |
| 17.55         |  | Headlights Flashing               | None             | —                  |
| 17.56         |  | Docking Lights                    | None             | —                  |







# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 17.57         |    | Command Light, Green              | None             | —                  |
| 17.58         |    | White Warning Lights              | None             | —                  |
| 17.59         |   | Brow Light Spot Beam              | None             | —                  |
| 17.60         |  | Rear Cab Scene                    | None             | —                  |
| 17.61         |  | Scene Light – PS Rear             | None             | —                  |
| 17.62         |  | Scene Light – DS Rear             | None             | —                  |



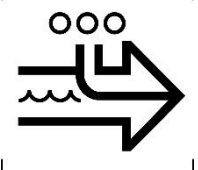
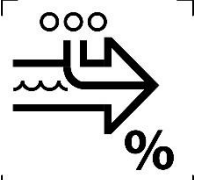
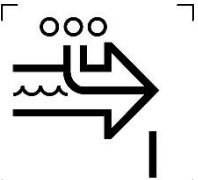

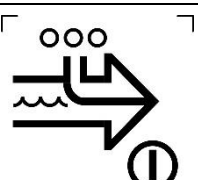
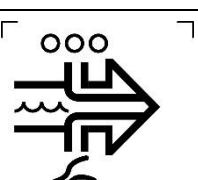


# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol  | Symbol Description or Application | Reference Number | Reference Standard |
|---------------|---|-----------------------------------|------------------|--------------------|
| 17.63         |    | Traffic Advisor Stick Split       | None             | —                  |
| 17.64         |    | Traffic Advisor Left              | None             | —                  |
| 17.65         |   | Traffic Advisor Right             | None             | —                  |
| 17.66         |  | Scene Light Master                | None             | —                  |



## 18 - Foam and CAFS

| Symbol Number | Graphical Symbol  | Symbol Description or Application            | Reference Number | Reference Standard |
|---------------|---|--|------------------|--------------------|
| 18.01         |    | Foam Concentrate Injection                   | 3.6.8            | CEN 15989          |
| 18.02         |    | Foam Concentrate Injection Rating by Percent | 3.6.9            | CEN 15989          |
| 18.03         |   | Foam Concentrate Injection, ON               | 3.6.10           | CEN 15989          |
| 18.04         |  | Foam Concentrate Injection, OFF              | 3.6.11           | CEN 15989          |
| 18.05         |  | Foam Concentrate Injection, ON-OFF           | 3.6.12           | CEN 15989          |
| 18.06         |  | Foam Concentrate and Air Injection           | 3.6.13           | CEN 15989          |



# Graphical Symbols for Automotive Fire Apparatus

| Symbol Number | Graphical Symbol | Symbol Description or Application          | Reference Number | Reference Standard |
|---------------|------------------|--|------------------|--------------------|
| 18.07         |                  | Foam Concentrate and Air Injection, ON     | 3.6.14           | CEN 15989          |
| 18.08         |                  | Foam Concentrate and Air Injection, OFF    | 3.6.15           | CEN 15989          |
| 18.09         |                  | Foam Concentrate and Air Injection, ON-OFF | 3.6.16           | CEN 15989          |



## 19 – Revisions

| Date       | Graphical Symbol(s) | Description of Change  |
|------------|---------------------|--|
| 10/01/2014 | 15.11               | Replaced "Stabilizers Set" pictorial with image used by ISO 7000 and CEN 15989   |
| 10/01/2014 | 15.01 – 15.06       | Replaced stabilizer pictorials with images from ISO 7000 and SAE J1362   |
| 10/01/2014 | 15.12 – 15.18       | Added pictorials that depict the function as well as the location of the stabilizer controls using a combination of symbols from ISO 7000 and SAE J1362. |
| 12/23/2017 |                     | Updated document format to new FAMA logo and appearance.   |
| 12/23/2017 | 17.26               | New symbol for low level interior illumination to stay current with changes to SAE and ISO 7000 and as an alternative to the day-night switch icon.      |
| 12/23/2017 | 9.33, 9.34, 9.37    | Revised hydraulic cylinder symbol closer to the proportions found in SAE J1362   |
| 12/23/2017 | 9.43 Thru 9.49      | Added base symbols for pumper and aerial apparatus, suspensions, helmet restraint, roll-up door, and equipment restraint.                                |
| 12/23/2017 | 12.24               | Added symbol for pressure governor   |
| 12/23/2017 | 13.05, 13.06, 17.08 | Added symbols for hose and hose restraint. Updated hose bed light symbol to use new hose graphics.   |
| 12/23/2017 | 15.08, 15.09, 15.10 | Updated graphics to reflect changes previously made to the stabilizer symbols in conformance with SAE J1362  |



# Graphical Symbols for Automotive Fire Apparatus

|            |   |   |
|------------|---|---|
| 12/23/2017 | Color Chart   | Added standard safety color chart to assist graphic designers in producing consistent art.  |
| 12/23/2017 | CEN 15989   | Added misc. symbols from the 2015 version of CEN 15989: 3.3.6, 3.3.7, 3.3.8, 3.3.9, 3.3.10, 3.3.5, 3.3.20, 3.3.21, 3.4.15, 3.4.16, 3.5.5, 3.5.28, 3.10.27 |
| 12/23/2017 | FOAM Chapter  | Added Chapter 18 Foam and CAFS to contain the foam and CAFS symbols from the 2015 version of CEN 15989  |
| 04/27/2018 | 9.60, 9.61, 10.33,<br>10.34, 14.26,<br>14.27, 14.28,<br>14.29, 17.27, 17.28   | Added New Symbols   |
| 04/17/2019 | 9.62 – 9.74<br>14.30, 14.31<br>17.29 – 17.49                                  | Added New Symbols   |
| 05/02/2019 | 9.75 - 9.80<br>12.25 – 12.37<br>16.09   | Added New Symbols   |
| 10/10/2019 | 8.08 - 8.11<br>9.81 – 9.88<br>13.07 – 13.08<br>14.32 – 14.34<br>17.50 – 17.57 | Added New Symbols   |
| 05/02/2020 | 12.38 – 12.39<br>13.09 - 13.12<br>17.58 - 17.59                               | Added New Symbols   |
| 01/09/2021 | 9.89 – 9.93<br>17.60 – 17.62  | Added New Symbols   |
| 03/21/2022 | 14.35<br>16.10 – 16.11<br>17.63 – 17.66                                       | Added New Symbols   |