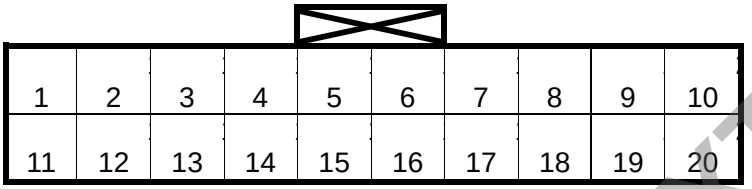
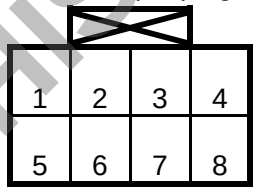
1. Wire Harness End View and Pin Definition

A- 20 pin plug



B 8 pin plug



Pin	Function Definition
A1	Controller Power + (+12 V)
A2	Power Ground
A3	Power Ground
A4	Battery +
A5	Parking brake light outlet (high efficiency)
A6	Mast lifting and lowering output (high efficiency)
A7	High- and low-speed solenoid valve (high efficiency)
A8	Reverse solenoid valve (high efficiency)
A9	Forward solenoid valve (high efficiency)
A10	Output on (high efficiency)
A11	+12V reserved, for external connection to power supply of indicator light, not for connection to large current loading. (cancelled)
A12	Power Ground
A13	BATT+ reserved, for external connection to power supply of indicator light, not for connection to large current loading. (cancelled)
A14	Seat switch (high efficiency)

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3. Monthly Maintenance (166 hours)

Perform the following maintenance in addition to the weekly maintenance.

Before performing any maintenance always properly park the forklift truck by slowly driving the forklift to level ground, stop the truck, lower the forks to the ground, put the direction controller in neutral, engage park brake, and turn off engine.

1. Replace Engine Oil and Oil Filter (First Time ONLY, After 1st Time, 500 Hour Intervals).

1) Start the engine, warm it up thoroughly, and then turn off the engine.

2) Remove the cap from the oil filling port and the drain plug from the oil pan. Let the oil flow out.

> ⚠ **WARNING:**
>
> **Be careful to avoid being burned.**
> **The engine oil may be very hot.**

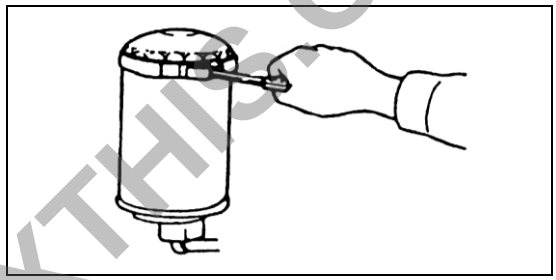
• Milky engine oil indicates that coolant has infiltrated the oil. Contact an authorized service technician for repair.

• Very thin oil indicates that it contains gasoline.

Wipe clean and install the drain plug and washer.

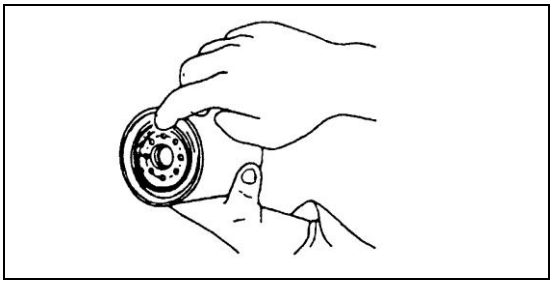
3) Drain plug tightening torque: 29 N•m～39 N•m

4) Use a tool to detach the oil filter.



5) Wipe the mounting surface of the oil filter with a clean cloth.

6) Apply a small amount of engine oil to the rubber ring of the new oil filter.



7) When installing a new oil filter, hand-tighten only. Do not tighten with a wrench.

8) Refer to the forklift truck Fluid Use Chart, and add the recommended engine oil.

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IV. Maintenance

For more detailed information on maintenance, please see “Periodic Maintenance and Lubrication Schedule”.

Before performing maintenance as specified always properly park the forklift truck: slowly drive the forklift to level ground, stop the truck, lower the forks to the ground, put the direction controller in neutral, engage park brake, and turn off engine.

1. Daily Maintenance (8 hours) and Pre-Operation Inspection

1. Leak Inspection: Electrolytes, Hydraulic Fluid, Brake Fluid, Coolant, and Hydraulic Transmission Fluid

> **⚠ Warning：**
>
> **DO NOT operate truck if fuel or other fluids are found leaking following pre-operational checks. Correct all leaks before starting engine.**

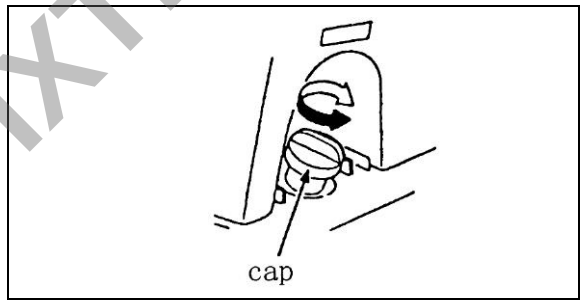
Check the engine, hydraulic lines and connections, the coolant tank, and the drive system for leaks of oil or coolant. Do not inspect for hydraulic leaks with your hands, rather perform a visual inspection. Never use an open flame.

2. Exterior Inspection

Check whether lights and instruments are operating normally.

Check the tires for correct air pressure and determine whether wheel hardware is loose.

3. Check Fuel Amount



The fuel gauge is mounted on the instrument panel. Check the fuel level every day before starting work. Fill the fuel tank every day after work. The fuel tank fill is located next to the left support leg of the overhead guard.

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VI. Operation

WARNING:

If the forklift truck has any damage or malfunction, DO NOT use until it is repaired.

1. Starting

Starting A Diesel Engine

① Put the directional control lever into neutral. Push on the service brake pedal.

② Rotate the start switch to the “START” position to start. After it has started, return the key to the “ON” position.

Caution:

If the forklift does not start within 5 seconds, turn the key to the “OFF” position. After 2 minutes, attempt to start again.

If three consecutive attempts to start fail, then contact an authorized technician to repair the lift truck.

Caution:

In cold temperatures, warm engine by turning the ignition key to “START”. Release key, wait 1 minute to start engine, turn the key 5 seconds until engine starts.

Starting A Gasoline Engine

① Put the directional control lever into neutral.

② Warm engine

. Press halfway down on the gas pedal and hold it. Turn the key switch to the “START” position to start. After it starts, release the key.

Caution:

When starting a warm engine, DO NOT depress the gas pedal all the way down. Doing this will actually make starting more difficult. Depressing it several times will also make starting difficult.

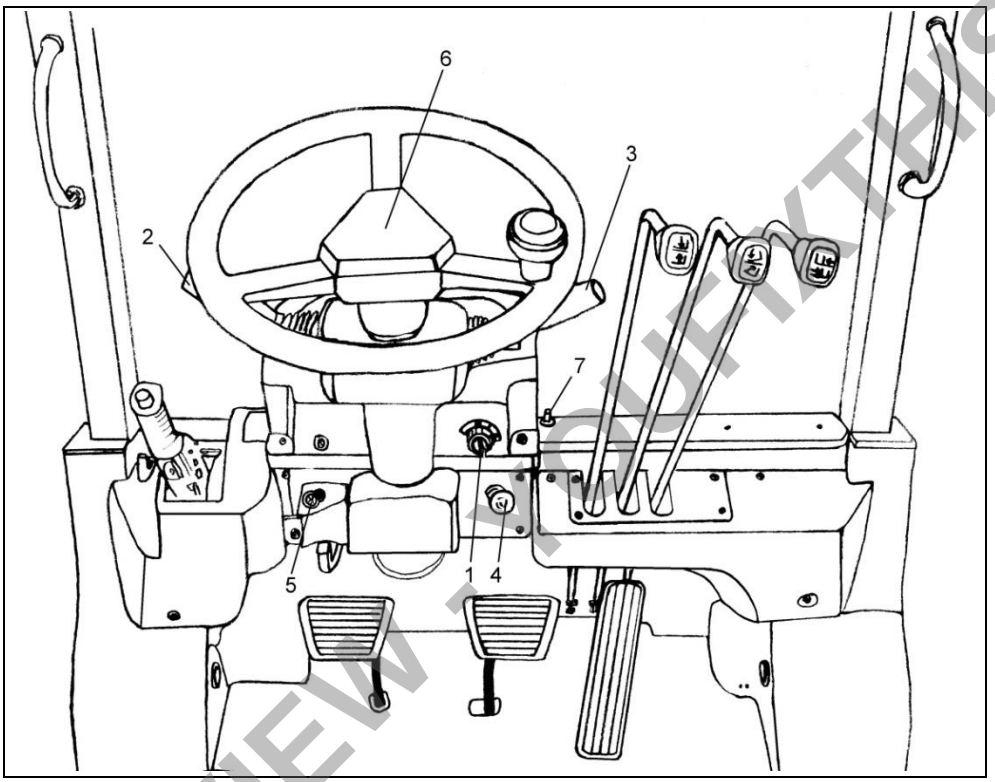
Caution:

A single starting time should not exceed 5 seconds. Allow at least 2 minutes for each start attempt.

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2. All Switches



1. Key Switch

2. Direction Control lever

3. Turn Signal Lever

4. Headlight Switch

5. Strobe Light Switch

6. Horn Button

7. Gas/LPG Selector

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XV. Use and Installation of Attachments and Operating Rules

Select attachments in accordance with application needs and acquired from authorized dealer or factory installed per nameplate on forklift truck.

1. Use of Attachments

(1) Be familiar with the relevant content on the attachment nameplate. Prior to use, carefully read the associated instructions for use. (In particular, the user's manual and installation instructions from specialized attachment companies.) Training and credentials are required for forklift truck attachment operation.

(2) Gain a full understanding of the basic properties and operating methods of the forklift truck attachment. In particular, gain a detailed understanding of the permitted load for the attachment, the lifting height, load dimensions, and applicable scope of the attachment.

(3) If a forklift truck attachment has multiple operating features, such as lateral shifting with clamping or rotating, DO NOT simultaneously perform two actions. You may only perform a second action after completing the first.

(4) Forklifts that are equipped with attachments absolutely may not be driven with the load in a high position. If the load is excessively bulky, DO NOT drive the forklift truck forwards. When transporting a load, ensure that the bottom of the load is 300 mm off the ground, with the mast tilted back.

(5) The load weight cannot exceed the limit of the combined bearing capacity of the forklift truck and the attachment. Avoid unbalanced loading as much as possible for high loads. Attachments with the lateral shifting feature can only be used for brief operations; the quantity of unbalanced load should be strictly controlled within a range of 100 mm. (The shift quantity for lateral shifters 5 tons or greater is ± 150 mm.)

(6) To prevent accidents, no one may stand directly under the attachment and load or within the area extending 2 meters directly below the attachment and load. The one exception is the operators position protected by the overhead guard.

(7) Absolutely DO NOT perform sudden braking while driving a forklift truck with attachments. You are required to drive slowly as though loaded.

(8) Avoid external impacts when working with attachments.

(9) DO NOT use attachments in improper situations. DO NOT exceed the normal operating range of the attachment.

(10) If the attachment develops a fault, DO NOT use it until the fault has been eliminated.

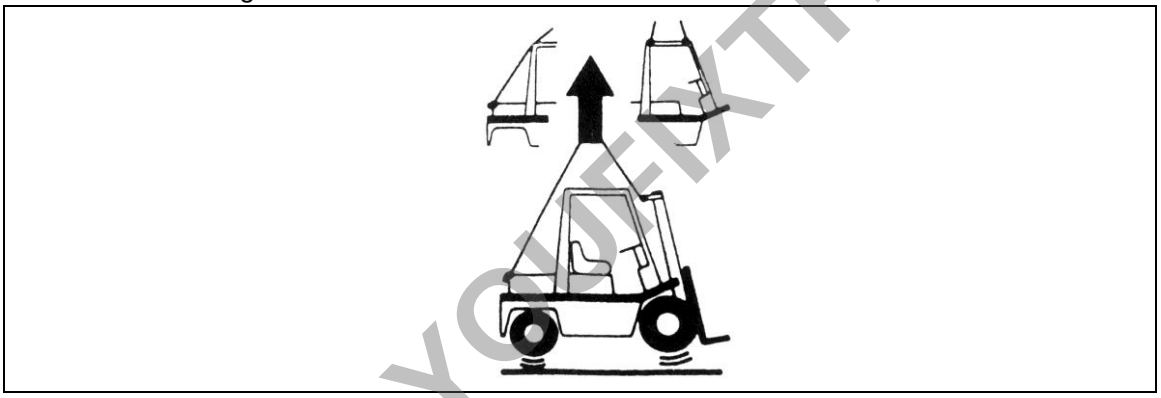
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IX. Hoisting, Moving and Towing the Forklift Truck

Hoisting the Forklift Truck

• Tie steel cables firmly to the hoisting holes at both ends of the outer mast cross-bar and to the counterweight hoisting hook. Then use a lifting device to hoist the forklift truck.



⚠ WARNING:

• When hoisting the truck, DO NOT connect to the overhead guard with slings. The overhead guard is not designed to support truck lifting.

·The steel wire cables and the lifting device must be rated for the truck weight

• DO NOT use the cab or the overhead guard to lift the forklift truck.

• DO NOT go under the forklift truck when it is raised off the ground.

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2. Torque Specifications

Unit: N•m

Bolt Diameter mm	Bolt Strength Grade			
	4.6	5.6	6.8	8.8
6	4-5	5-7	7-9	9-12
8	10-12	12-15	17-23	22-30
10	20-25	25-32	33-45	45-59
12	36-45	45-55	58-78	78-104
14	55-70	70-90	93-124	124-165
16	90-110	110-140	145-193	193-257
18	120-150	150-190	199-264	264-354
20	170-210	210-270	282-376	376-502
22	230-290	290-350	384-512	512-683
24	300-377	370-450	488-650	651-868
27	450-530	550-700	714-952	952-1269
30	540-680	680-850	969-1293	1293-1723
33	670-880	825-1100	1319-1759	1759-2345
36	900-1100	1120-1400	1694-2259	2259-3012
39	928-1237	1160-1546	1559-2079	2923-3898

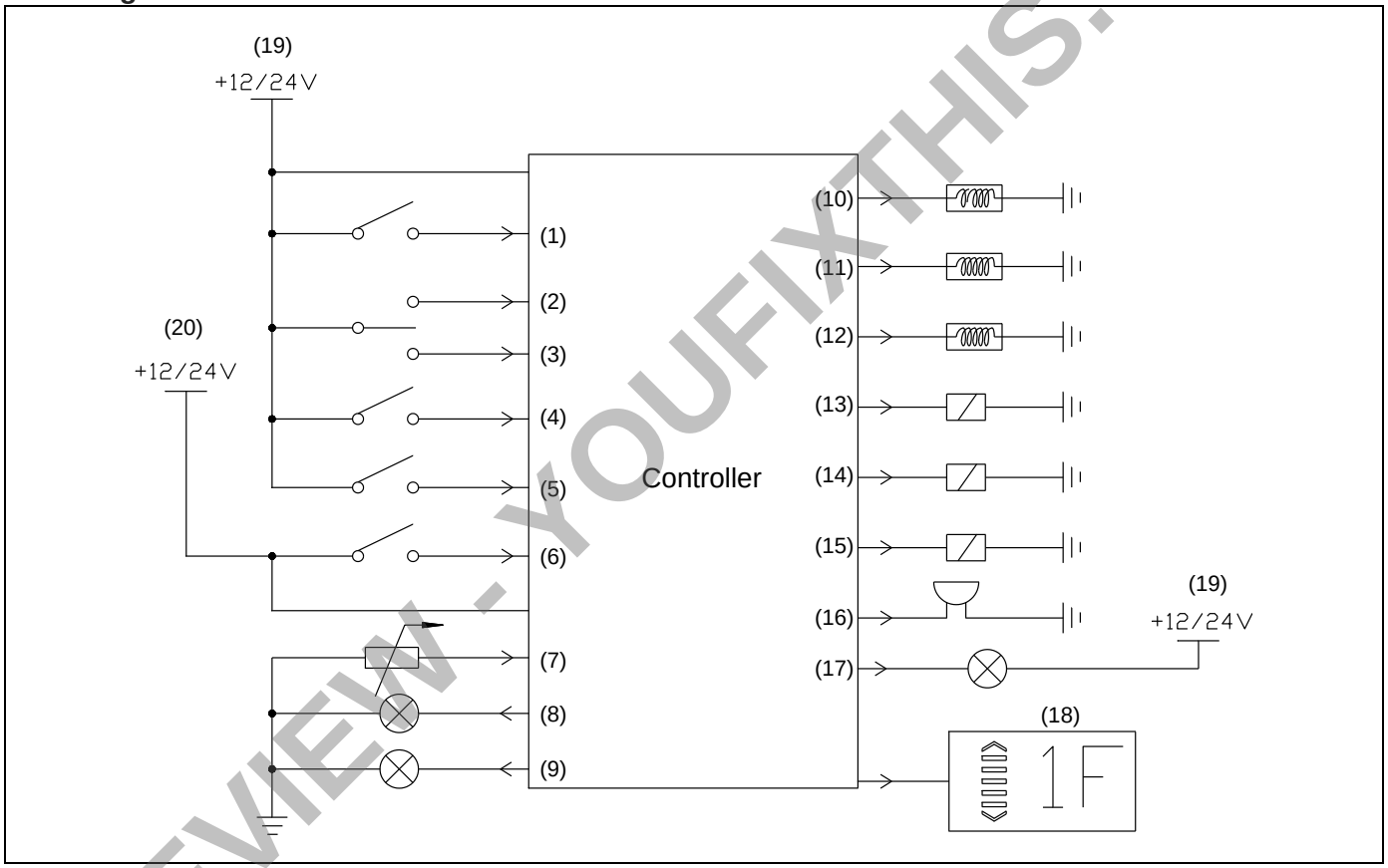
Note: • Use grade 8.8 bolts and screws for all important connections.

• Grade marked on head. Unmarked bolts are grade 8.8.

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2. Wiring



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5. Replacing the Fluid of the Hydraulic Transmission (First Time Only; Semi-Annually Thereafter)

> ⚠ **Warning：**
> Hot hydraulic oil and parts may cause injury. DO NOT touch the hot hydraulic oil and parts.

1) Place a container (20 liters or greater) under the transmission case.

2) Remove the fluid drain plug, and let the fluid drain into the container.

3) Clean the drain plug, and then install it.

4) Pull out the dipstick. Add hydraulic fluid. Refer to the Forklift Truck Fluid Use Chart. Re-insert the dipstick.

5) Start the engine.

6) Depress the brake pedal while idling the engine. Cycle the transmission between forward and reverse to replenish the system with fluid.

7) Put the transmission into neutral, and engage the park brake.

8) Pull out the dipstick, and observe the fluid level.

9) If the fluid level is insufficient, then add more fluid to bring the level up in between the maximum and minimum marks.

10) Check the filter and the drain plug for leaks.

11) Turn off the engine, and install the front base plate.

6. Fuel System Exhaust (diesel forklifts)

It is also necessary to purge air from the fuel system after adding fuel, or during the process of draining water from inside the oil-water separator.

① Loosen the purging bolt.

② Pump the hand pump until no more air comes out at the purging bolt.

③ Tighten purging bolt.

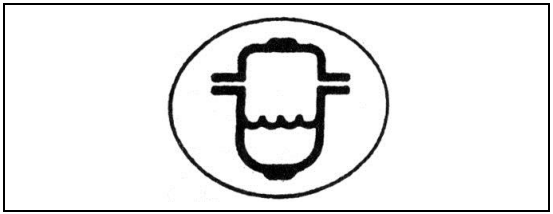
7. Eliminating Water from the Oil-Water Separator

Drain off accumulated water if the fuel filter alarm light illuminates while the engine is running.

① Place a container under the fuel filter.

② Twist open the supporting bolt at the water drain outlet. Drain out the water by loosening the water drain cock with 4 to 5 turns.

③ After the water has been completely drained, tighten the water drain outlet support bolt and the water drain cock.



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2. Weekly Maintenance (40 hours)

Add the following content to the pre-existing daily maintenance content.

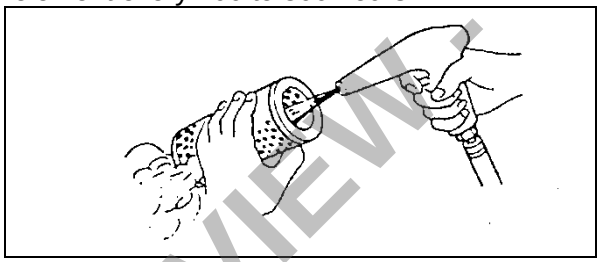
1. Air Filter Maintenance

Generally, the filter element needs to be cleaned when the forklift has been operated from 50 to 250 hours.

Replace the filter element after it has been serviced six times.

> **Caution：**
>
> If the worksite has poor air quality, the air cleaner needs to be cleaned/replaced more frequently.

In relatively dusty work environments, shorten the filter element servicing and replacement periods depending on the conditions. Servicing every 8 to 50 hours is recommended. Correspondingly, replace the filter element every 100 to 300 hours.



Maintenance Methods:

1. Gently remove the filter element from the canister. Avoid dislodging contaminants from the filter or knocking it against the canister.
2. Gently tap the filter element to dislodge any contaminants.
3. With a clean soft rag, clean the inside surface of the canister. Be careful not to knock any contaminants into the outlet tube.
4. Inspect the filter element for voids, cuts, or tears and replace if required.
5. Install the filter element into the canister.

> **WARNING:**
>
> **1. Flying dust can get into your eyes, so wear protective goggles before blowing air.**
>
> **2. Failure to promptly maintain and replace the filter element as required will cause early engine damage.**

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3. Loading

• Adjust the spread of forks to the maximum width for the intended load; balance the load.

• The forklift truck should be pointing straight at the load to facilitate loading.

• The pallet should be centered between the two forks.

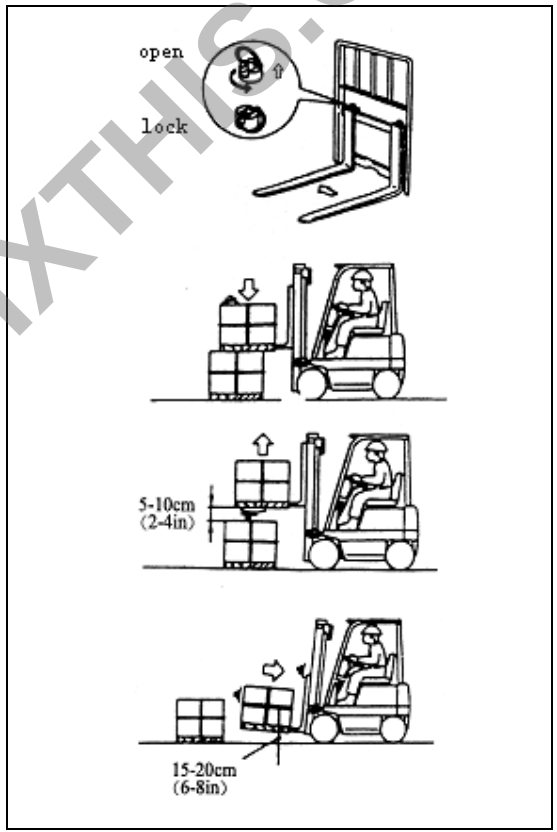
• The forks should be inserted as far inside the pallet as possible. At least 2/3 of length of the load.

• Pick up the load.

① First lift the load 5 cm to 10 cm off the ground. Confirm that the load is secure.

② Then tilt the mast all the way back. Raise the load 15 cm to 20 cm off the ground, and then begin driving.

• When moving bulky loads that block your line of sight, drive in reverse, except when going up slopes. Use a spotter if vision is restricted.



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