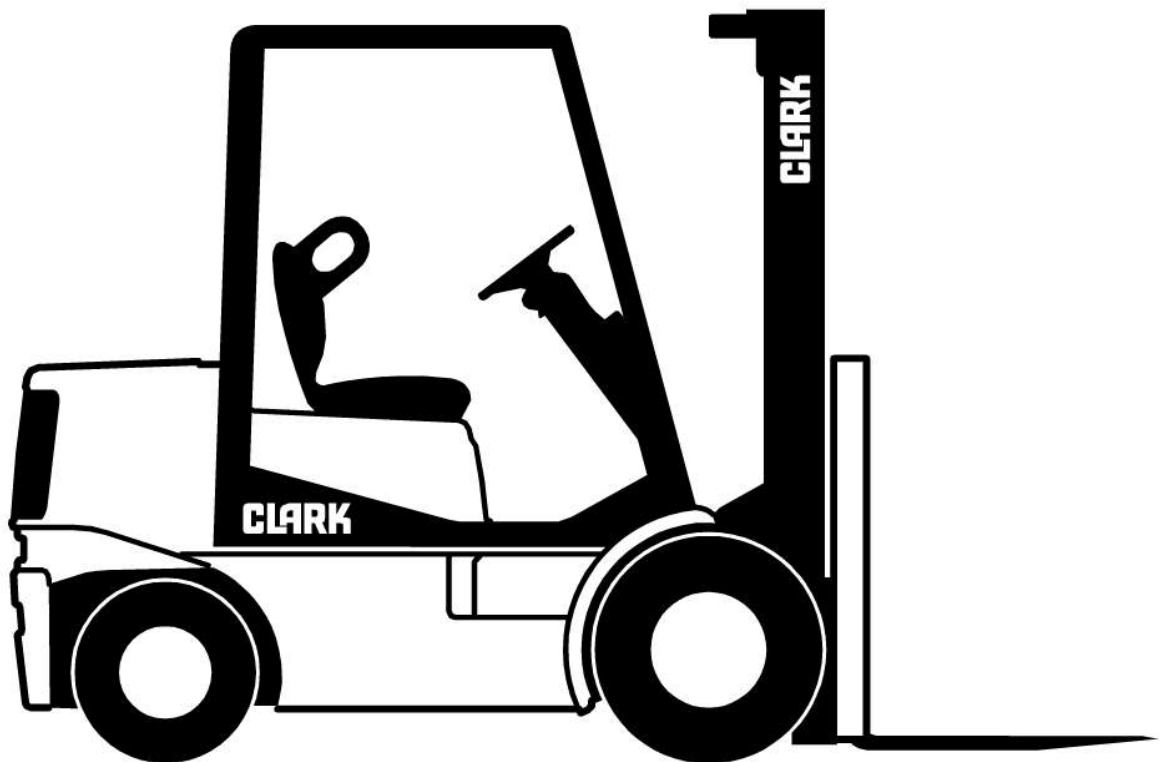


○ **CLARK**®



Operator's Manual

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

The first Section of the manual is devoted to a review, with illustrations and brief messages, of general safety rules and the major operating hazards you can encounter while operating a lift truck. Next, you will find descriptions of the components of your specific lift truck model and how the instruments, gauges, and controls operate. Then, you will find a discussion of safe and efficient operating procedures, followed by instructions on how to tow a disabled lift truck. The later sections of the manual are devoted to maintenance and truck specifications.

Take time to carefully read the "Operator Compartment and Controls" section. By acquiring a good basic understanding of your truck's features, and how they function, you are better prepared to operate it both efficiently and safely.

In "Planned Maintenance," you will find essential information for correct servicing and periodic maintenance of your truck, including charts with recommended maintenance intervals and component capacities. Carefully follow these instructions and procedures.

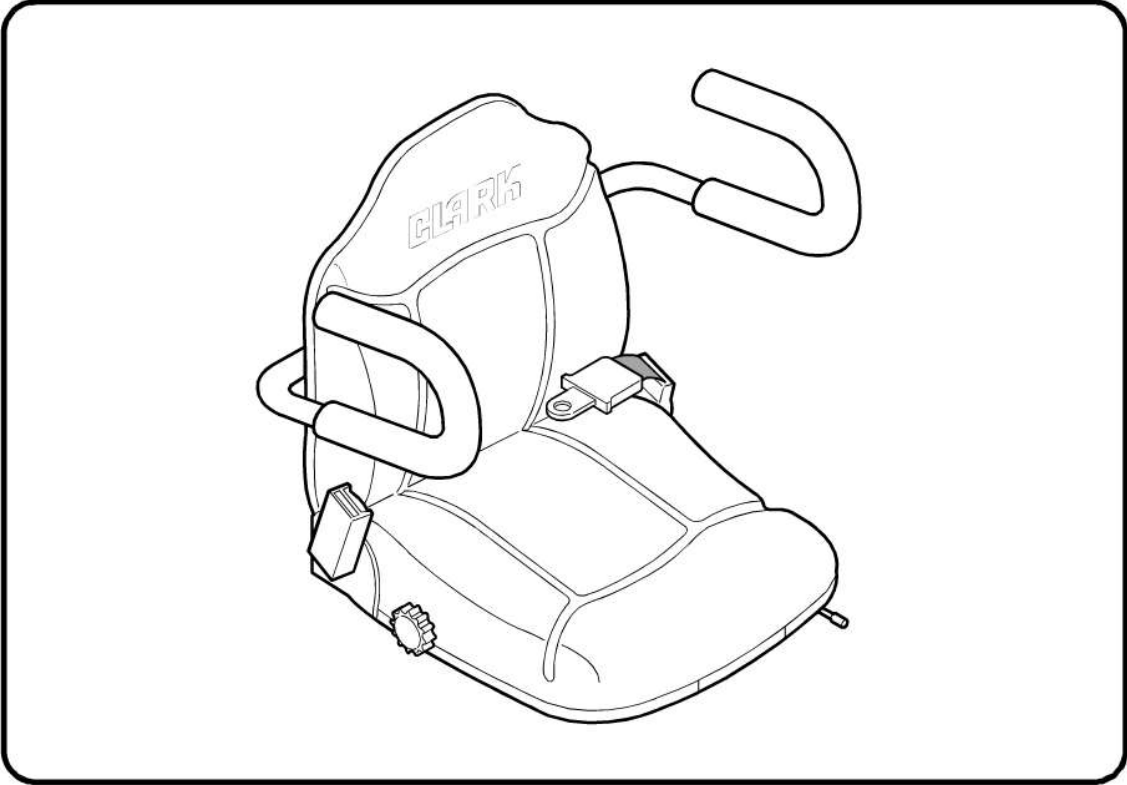
Each major Section has its own table of contents, so that you can find the various topics more easily. If you cannot find a topic in the table of contents, check the index at the back of the manual.

We urge you to first carefully read the manual from cover to cover. Take time to read and understand the information on general safety rules and operating hazards. Acquaint yourself with the various procedures in this manual. Understand how all gauges, indicator lights, and controls function. Please contact your authorized CLARK dealer for the answers to any questions you may have about your lift truck's features, operation, or manuals.

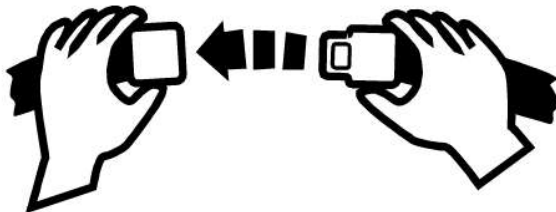
Operate your lift truck safely; careful driving is your responsibility. Drive defensively and think about the safety of people who are working nearby. Know your truck's capabilities and limitations. Follow all instructions in this manual, including all IMPORTANT, CAUTION, WARNING, and DANGER messages to avoid damage to your lift truck or the possibility of any harm to yourself or others.

This manual is intended to be a permanently attached part of your lift truck. Keep it on the truck as a ready reference for anyone who may drive or service it. If the truck you operate is not equipped with

Seat Belts



ALWAYS BUCKLE UP



Section 1. General Safety Rules

Pinch Points



 **WARNING**

Keep hands, feet and legs out of the upright.



 **WARNING**

Don't use the upright as a ladder.

 **CAUTION**

What to do in Case of a Tip-over

If your truck starts to tip over,

 **WARNING**
DO NOT JUMP!!!

IMPORTANT

Your chances for survival in a tip-over are better if you stay with the truck, in your seat.

Brace yourself as illustrated below!

1. Make sure your seat belt is fastened securely.
2. Stay in your seat.
3. Grip the wheel.
4. Brace your feet.



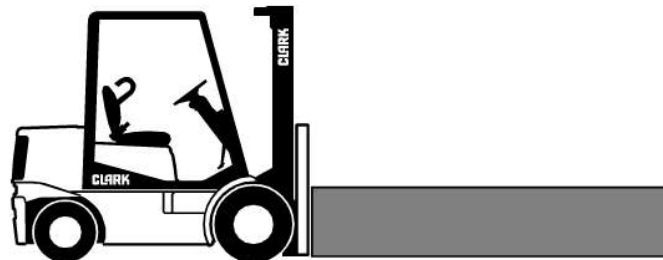
Section 2. Operating Hazards

Long and Wide Loads / Rear Swing **WARNING**

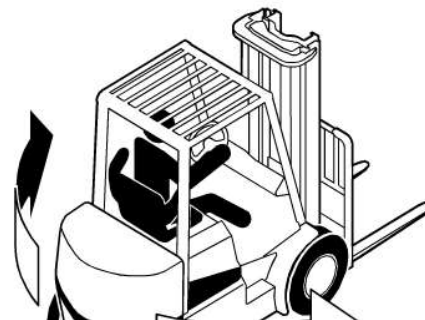
With long or wide loads, you need more room. So slow down and watch your clearance.

A long load reduces the capacity of the truck. Know and understand your truck load rating.

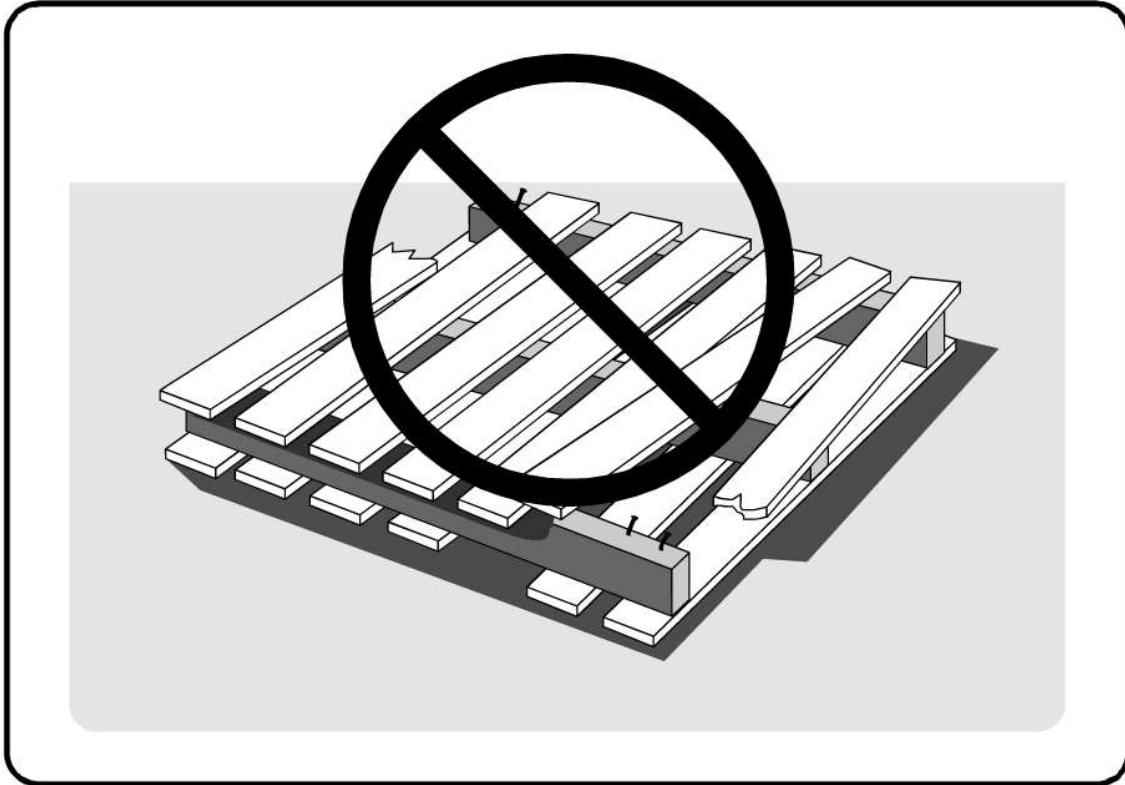
When extra-long material makes it necessary to travel with the load elevated, do so with extreme care and be alert to load end-swing when turning.

 **WARNING**

When turning, be sure the rear end of the truck does not swing into racks, posts, etc. Watch for pedestrians beside the truck.



Pallets and Skids



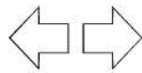
WARNING

Do not move or store materials on damaged pallets or skids. Items can fall through them causing severe injury or death!

Be sure the pallet or skid you are using is in good condition and does not have defective or missing components and fasteners.

Section 3. Operator Compartment and Control

CMC/CMP Instrument Panel Symbols



Turn Signal Lamps: Blink when the turn signal indicator lever turned to either direction.



LPG Warning Lamp (Dual fuel option for CMP15-30G): This symbol displays when the LPG fuel bottle reaches minimum allowable limit.



Ammeter: This symbol displays when the alternator is not charging the battery.



Engine Oil Pressure: This symbol displays when the engine oil pressure reaches the minimum allowable limit. The indicator will also display along with the automatic engine shutdown in case of low oil pressure. If this symbol is displayed, **STOP** the truck immediately and check transmission.



Fuel Level: This symbol displays when the LPG fuel bottle reaches a minimum allowable limit.



Glow Plug Preheat: When the ignition switch is turned to the "ON" position, a timer is set. This symbol displays when the timer cycle is completed. The engine may then be started.



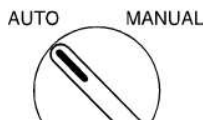
Parking Brake: This symbol displays when the parking brake is engaged.



Transmission Oil Temperature: During operation, glow of this symbol indicates when the transmission oil temperature is too high. If this symbol is displayed, **STOP** the truck immediately and check transmission.

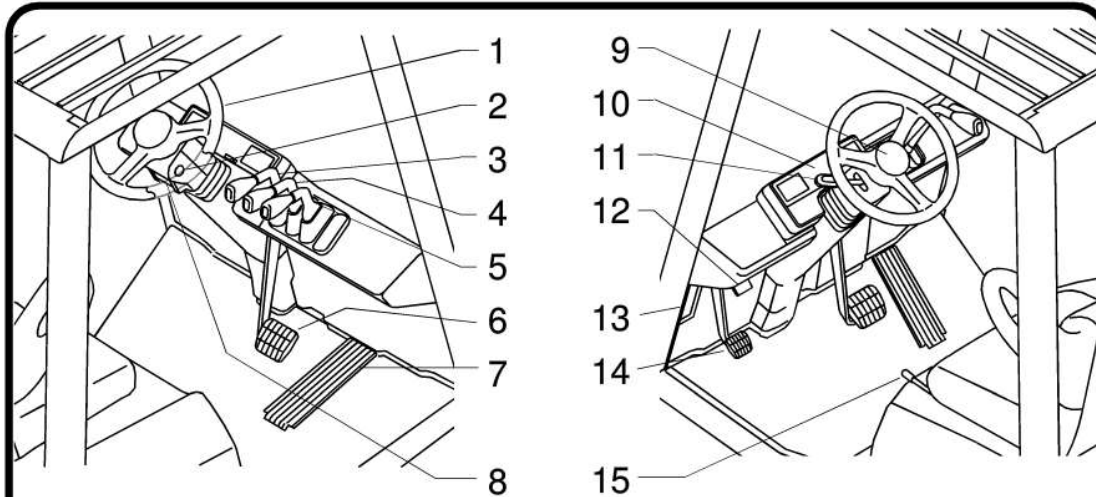


Panel Check Switch: Turns on all the pilot and warning symbols on the instrument panel. This switch is designed to the operator know that all symbols and switches are working properly.

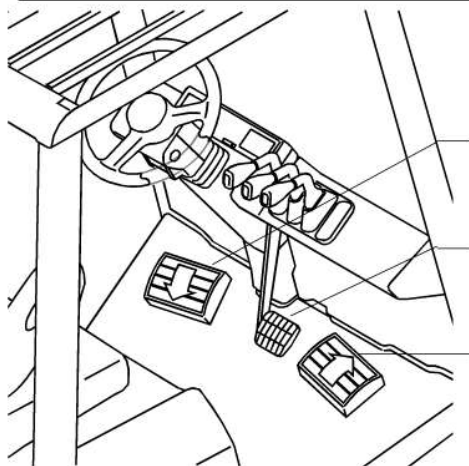


Auto/Manual Switch: In normal condition set the switch to "AUTO", and in emergency condition (*AUT failure*), SET to "MANUAL" to operate.

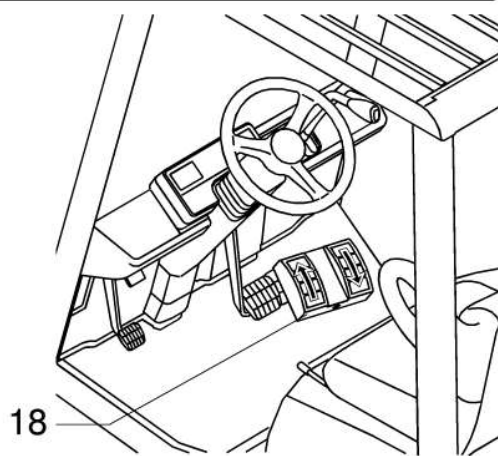
CGC/CGP Hydrostatic Operators Compartment



Standard Operating Controls



Two Pedal Controls



Unitrol Pedal Controls

- | | |
|----------------------------|---|
| 1. Steering Handwheel | 11. Direction Control (standard) |
| 2. Key Switch | 12. Parking Brake Release |
| 3. Lift Control Lever | 13. Hood Release |
| 4. Tilt Control Lever | 14. Parking Brake Pedal |
| 5. Auxiliary Control Lever | 15. Seat Adjustment Lever |
| 6. Brake Pedal | 16. Direction and Speed Control Pedal (REV) |
| 7. Accelerator Pedal | 17. Direction and Speed Control Pedal (FWD) |
| 8. Pylon Lock | |
| 9. Horn Button | |

Operator Controls

Cold Start Preheating CDP 20-35 (Diesel Only)



With the switch in the "ON" position the warning indicator will light up then the glow plugs are pre-heating automatically, after 6 seconds the indicator light will go out.

The Engine can be started.

For improved starting, pre-heating is continued for about 5 seconds after the indicator light has gone out. To repeat the preheating process turn the key to "OFF" and then into "ON" position.

Engine Stop

Run the engine at idling speed briefly before shutting it off. Turn the key switch to the "OFF" position to shut the engine down.

Cold Start Preheating CDP 40-55 /CDC 60-70 (Diesel Only)



Turn the starter key to position "ON". With lighting up of the warning lighting the preheating automatic (flame glow plug) will be activated. An electrically operated flame glow plug which ignites a specific amount of diesel fuel in the induction manifold in order to heat the induction air. The end of preheating will be indicated if the warning lights go out. Now turn the key immediately to start position.

Release the key immediately when the engine has started.

IMPORTANT

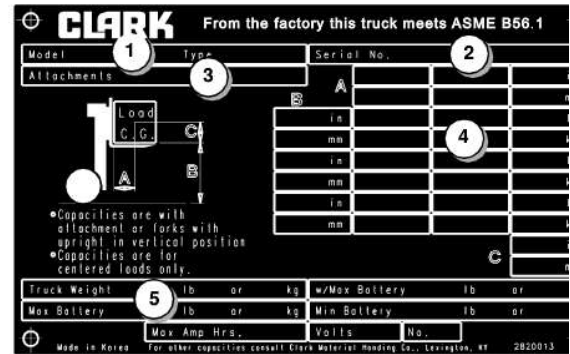
Repeated preheating without starting the engine isn't allowed. Only with starting idle it is possible to fill the fuel line with diesel, where the flame glow plug is installed. Therefore repeat preheating with starting the engine.

Engine Stop

Section 3. Operator Compartment and Control

Truck Data and Capacity Plate

1. Truck model number or registered name.
2. Truck serial number—An identification number assigned to this particular truck and should be used when requesting information or ordering service parts for this truck from your authorized CLARK dealer. The serial number is also stamped on the frame.
3. Attachment description (if any installed)—The user must see that the truck is marked to identify the attachment(s), including the weight of the truck/attachment combination and truck capacity with the attachment.
4. Capacity rating, load center, and lifting height data—Shows the maximum load capacity of this truck with relation to load center and fork heights (see diagram on plate). Personal injury or damage to the truck can occur if these capacities are exceeded. **Do not exceed the maximum capacity specified.**
5. Truck weight—The approximate weight of the truck without load on the forks. This weight plus the weight of the load must be considered when operating on elevators, elevated floors, etc. to be sure they are safe.



CAUTION

When attachments are added or if the truck is modified, the capacity of the truck may be affected. Contact your authorized CLARK dealer for a new nameplate showing the revised capacity.

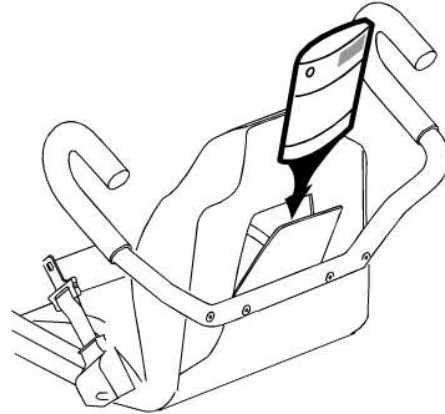
IMPORTANT

OSHA requires prior written approval from the manufacturer before any modifications affecting capacity or safety

Before Operating the Truck

Be sure that you have read and understand the information in this Operator's Manual before operating the lift truck.

The Operator's Manual Holder is located on the back of the seat.



WARNING

- This equipment can be dangerous if not used properly. Safe operation is the responsibility of the operator.
- Do not start or operate the truck, or any of its functions or attachments, from any place other than the designated operator's position.

CAUTION

- Inspect your lift truck before operating at the start of the day or shift. Before putting your truck to use, check the operation of the controls and all systems.
- Protect yourself. Do not operate truck without a driver's overhead guard unless conditions prevent its use. Do not remove overhead guard unless specifically authorized. Use special care if operation without this safety device is required.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

Section 4. Operating Procedure

Operating Safely

IMPORTANT

Safe operation is the responsibility of the operator. Watch where you are going. Don't go if you can't see.

Before driving, check all around to be sure that your intended path of travel is clear of obstructions and pedestrians.

While driving, be alert for pedestrians, other vehicles or obstructions in your path of travel.



Watch people. Do not allow anyone to stand or pass under the load or raised forks. Watch for people in your work area even if your truck has warning lights or alarms. They may not watch for you.

Sound horn at intersections and wherever vision is obstructed. Do not drive a truck up to anyone standing in front of an object.

Protect yourself and those around you...

Operate the truck only from the designated operator's position. Stay within the confines of the lift truck profile dimensions. Keep arms, legs and hands inside the operator's compartment and away from the danger of passing obstructions. Keep under the overhead guard.

NOTICE

An overhead guard is intended to offer protection to the operator from falling objects, but cannot protect against every possible impact. Therefore, it should not be considered a substitute for good judgement and care in loading, handling, storage, etc..

Keep clear of the upright and lift mechanism. NEVER reach into or put hands, arms, legs or head into or through



Section 8. Specification

(Models CGC/CGP/CDP 40, 45, 50, 55, 60, 70)

	Diesel	Diesel	Gas	LPG
Model Perkins:	1004	1004.42		
Model GM			V6	V6
Cylinders	4	4	6	6
Displacement				
<i>cubic inches</i>	243	258	262	262
<i>liters</i>	4.0	4.2	4.3	4.3
Idle RPM	650-750	650-750	650-750	650-75
Governed RPM				
<i>No load @ high idle</i>	2540	2400	2650	2650
<i>Full load</i>	2400	2200	2500	2500

Cooling System**(Models CGC/CGP/CDP 20, 25, 30, 32, 35)**

Automotive type crossflow radiator.

Cooling system pressure (radiator cap): 90 kPa nominal, 13psi

Thermostat: Diesel, 85°C(185°F), fully open 98°C (208°F),

Gas/CNG/LPG 83°C (182°F), fully open 96°C (205°F)

(Models CGC/CGP/CDP 40, 45, 50, 55, 60, 70)

Automotive type crossflow radiator.

Cooling system pressure (radiator cap): 48 kPa nominal, 7 psi

Thermostat: Diesel, 82°C (185°F), fully open 95°C (203°F),

Gas/CNG/LPG 88°C (190°F), fully open 96°C (205°F)

Powershift Transmission**(Models CGC/CGP/CDP 20, 25, 30)**

CLARK Model TA-30 Transaxle

Speeds: 1 forward /1 reverse

Overall Ratios: FWD/15.76 :1

REV/11.063:1

Convertor Stall Ratio: 3.24:1

(Models CGC 40. 50. 55)

Section 8. Specification

Model Designation — Rated Load Capacity

CGC/CGP/CDP 20(H)-4,000 lbs @24in load center [2000 kg] @[500mm

CGC/CGP/CDP 25(H)-5,000 lbs @24in load center [2500 kg] @[500mm

CGC/CGP/CDP 30(H)-6,000 lbs @24in load center [3000 kg] @[500mm

Note: Rated capacity applies when using uprights with maximum MFH up to and including: 152 Inches [3861mm]

Engine	<i>Diesel</i>	<i>GAS</i>	<i>LPG</i>
Model Mitsubishi:	S4S	4G64	4G64
Cylinders:	4	4	4
Displacement			
<i>cubic inches:</i>	201	146	146
<i>liters:</i>	3.3	2.4	2.4
Idle RPM:	650-700	650-700	650-700
Governed RPM			
<i>No load @ high idle:</i>	2600	2600	2600
<i>Full load:</i>	2220	1850	1850

Cooling System

Automotive type crossflow radiator.

Cooling system pressure (radiator cap): 90 kPa nominal, 13psi

Thermostat: Diesel, 85°C (185°F), fully open 98°C (208°F),

Gas/LPG 83°C (182°F), fully open 96°C (205°F)

Hydrostatic Pump

Sauer-Sundstrand Series 90 axial piston, variable displacement unit
CDP/CGP20-35H:Maximum Displacement: 75 cm³/rev (4.57 in³/rev)

Maximum Pressure: 480 bar (7,000 psi)

Rated Pressure: 420 bar (6,000 psi)

Drive Axle

Drive axle constructed with integral Rexroth radial piston hydraulic motors and hydraulic shoe brakes.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL