

B25C Articulated Dump Truck

OPERATOR'S MANUAL B25C Articulated Dump Truck OMT167174 K9 (ENGLISH)

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

 **WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

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.

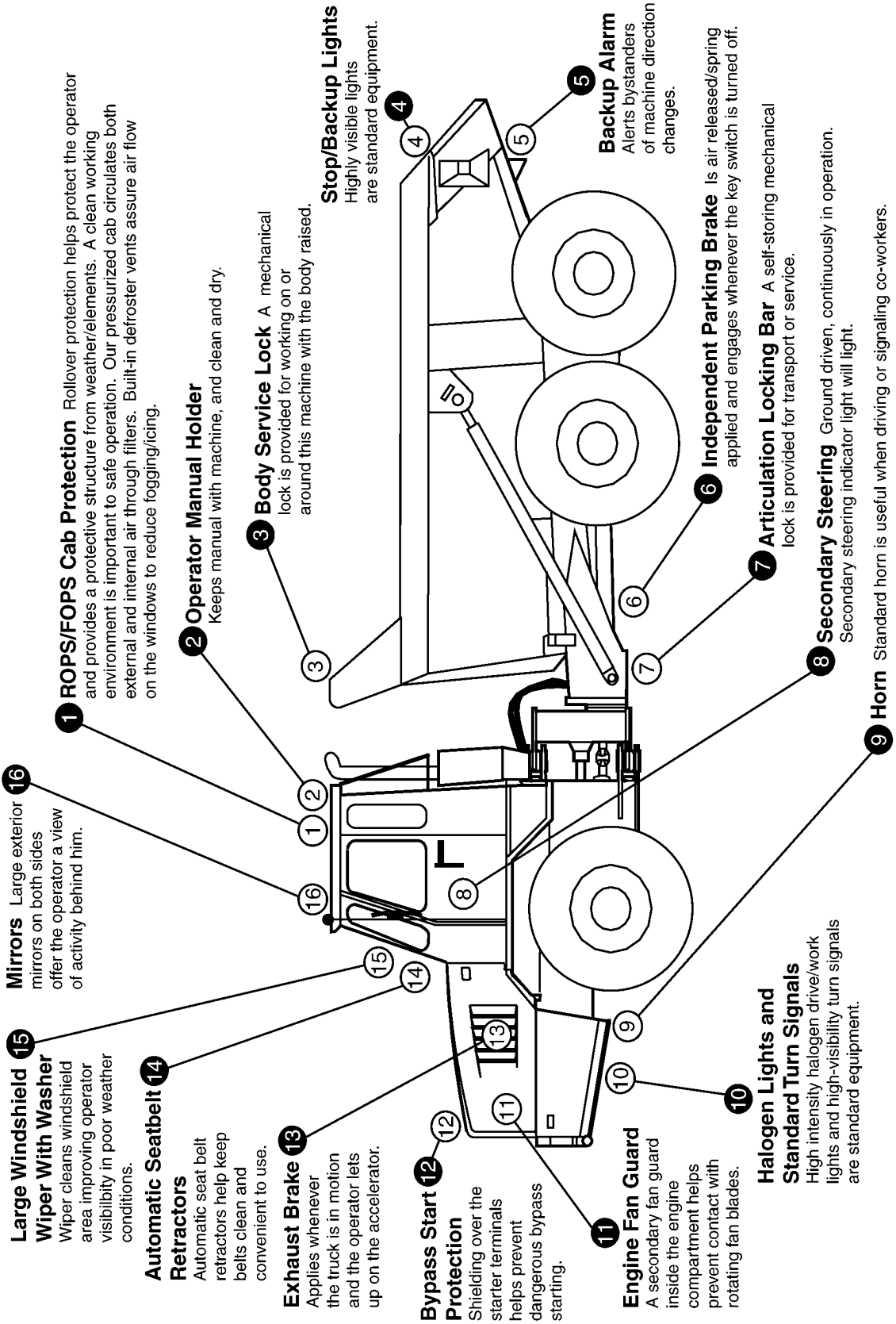
CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

Safety

Articulated Dump Truck Features Page

ARTICULATED DUMP TRUCK SAFETY FEATURES

Please remember, the **operator** is the key to preventing accidents.



Mirrors 16 Large exterior mirrors on both sides offer the operator a view of activity behind him.

Large Windshield 15
Wiper With Washer Wiper cleans windshield area improving operator visibility in poor weather conditions.

Automatic Seatbelt 14
Retractors Automatic seat belt retractors help keep belts clean and convenient to use.

Exhaust Brake 13 Applies whenever the truck is in motion and the operator lets up on the accelerator.

Bypass Start 12
Protection Shielding over the starter terminals helps prevent dangerous bypass starting.

Engine Fan Guard 11 A secondary fan guard inside the engine compartment helps prevent contact with rotating fan blades.

Halogen Lights and Standard Turn Signals 10 High intensity halogen drive/work lights and high-visibility turn signals are standard equipment.

1 ROPS/FOPS Cab Protection Rollover protection helps protect the operator and provides a protective structure from weather/elements. A clean working environment is important to safe operation. Our pressurized cab circulates both external and internal air through filters. Built-in defroster vents assure air flow on the windows to reduce fogging/icing.

2 Operator Manual Holder Keeps manual with machine, and clean and dry.

3 Body Service Lock A mechanical lock is provided for working on or around this machine with the body raised.

4 Stop/Backup Lights Highly visible lights are standard equipment.

5 Backup Alarm Alerts bystanders of machine direction changes.

6 Independent Parking Brake Is air released/spring applied and engages whenever the key switch is turned off.

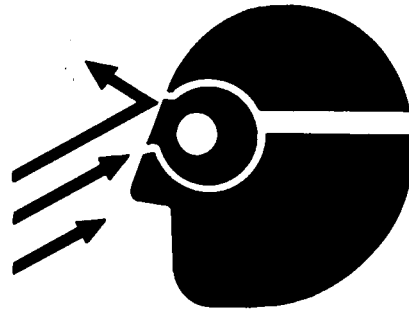
7 Articulation Locking Bar A self-storing mechanical lock is provided for transport or service.

8 Secondary Steering Ground driven, continuously in operation. Secondary steering indicator light will light.

9 Horn Standard horn is useful when driving or signaling co-workers.

Protect Against Flying Debris

Guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.



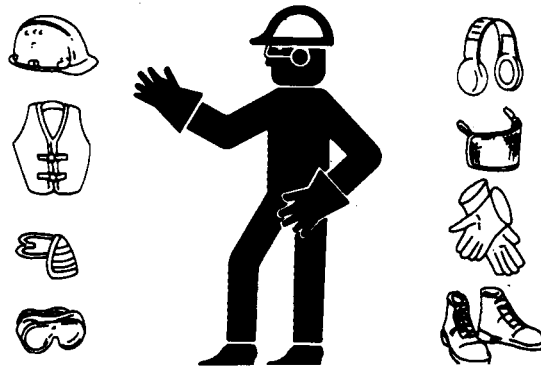
T6642DK -JUN-18OCT88

TX,05,FF1613 -19-10SEP98-1/1

Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



TS206 -JUN-23AUG88

DX,WEAR2 -19-10SEP98-1/1

Handle Chemical Products Safely

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with your machine include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

See your authorized dealer for MSDS's on chemical products used with your machine.



TS1132 -JUN-26NOV90

TX,05,DH2500 -19-10SEP98-1/1



T124308

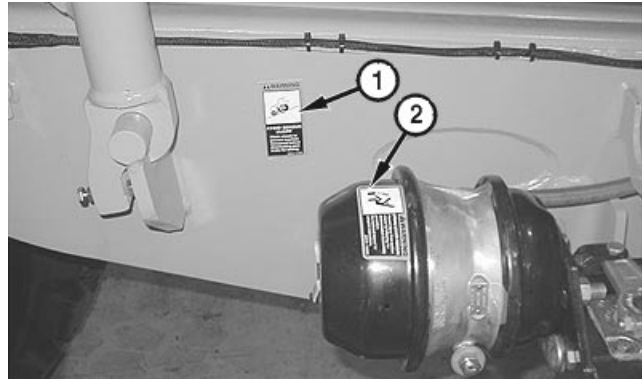
T124308 -19-08SEP99



T124312

T124312 -19-08SEP99

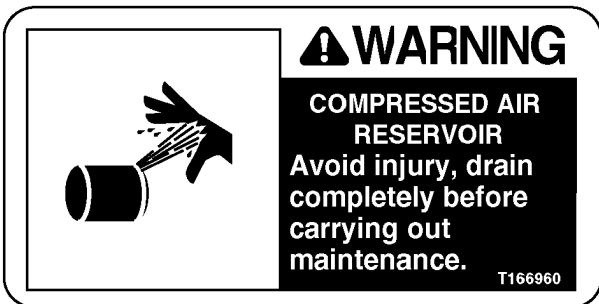
- 1—Safety Decal
- 2—Safety Decal



Two Places

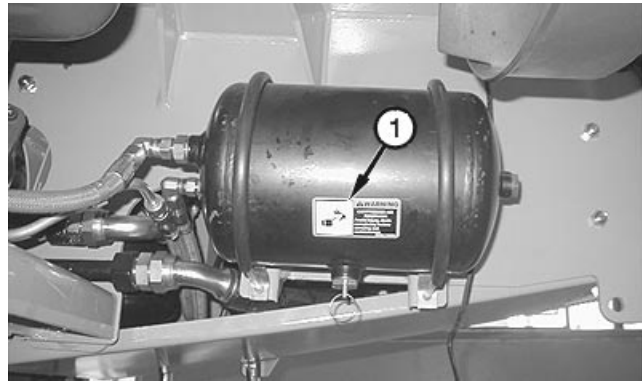
T124308B -UN-07SEP99

CED, TX14740, 6559 -19-22JUL99-7/12



T124313

T124313 -19-08SEP99



Two Places

T124314B -UN-07SEP99

- 1—Safety Decal

Continued on next page

CED, TX14740, 6559 -19-22JUL99-8/12

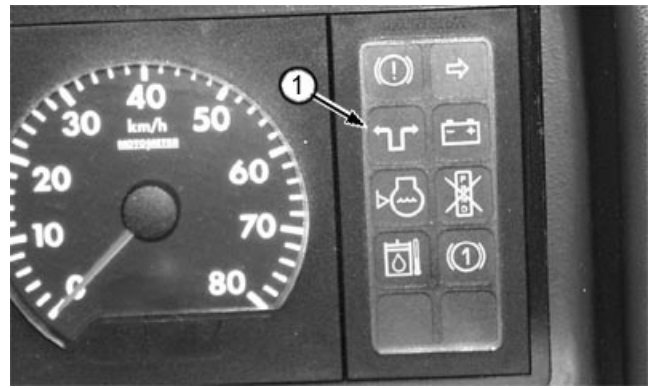
Secondary Steering Indicator

IMPORTANT: If the secondary steering indicator flashes, steer machine to safety as soon as possible and then stop.

The secondary steering indicator (1) is located on the center instrument panel.

The secondary steering indicator flashes if there is an engine or main hydraulic pump malfunction and the secondary steering is activated.

NOTE: The main warning indicator and the warning alarm are also activated with the secondary steering indicator.



T122862B -UN-27JUL99

1—Secondary Steering Indicator

CED,TX03679,5143 -19-28JUL99-1/1

Low Engine Coolant Level Indicator

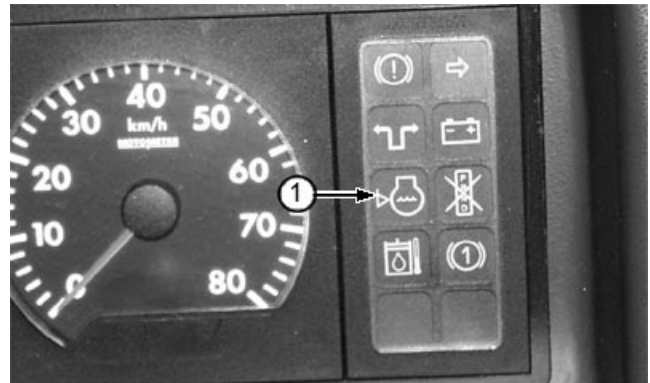
IMPORTANT: If the low engine coolant level indicator flashes, stop the machine and the engine immediately. Engine damage may result.

The low engine coolant level indicator (1) is located on the center instrument panel.

The indicator flashes when the engine coolant is low.

NOTE: The main warning indicator and the warning alarm are also activated with the low engine coolant level indicator.

NOTE: The low engine coolant level indicator may flash briefly during start-up when the ignition key is turned to the ON position.



T122863B -UN-27JUL99

1—Low Engine Coolant Level Indicator

CED,TX03679,5144 -19-28JUL99-1/1

Transmission Oil Temperature Button

When transmission oil temperature button (1) is pressed, transmission oil temperature (2) is displayed in degrees Fahrenheit (°F) on the top line of the digital display screen and the transmission oil temperature LED (3) illuminates.

The normal operating temperature range is 160—200°F (71—93°C).

When transmission oil temperature button is pressed again, the display for transmission oil temperature is canceled and the default display is restored.

IMPORTANT: At the first warning of high transmission oil temperature, stop machine. Stop engine and investigate the cause.

If transmission oil temperature reaches 275°F (135°C), the following will occur:

- The temperature displayed on the display screen will flash.
- The LED will flash.
- A warning alarm will sound intermittently.

If transmission oil temperature reaches 293°F (145°C), the following will occur:

- The display and LED cease flashing, but remain illuminated.
- The warning alarm will sound continuously.
- The error is logged in the computer and stored in memory.



1—Transmission Oil Temperature Button
2—Transmission Oil Temperature
3—Transmission Oil Temperature LED

Start Button

The start button (2) is located on the right dash panel.

IMPORTANT: DO NOT hold start button in for more than 17 seconds. If engine does not start during this period, turn key switch to OFF. Wait one minute and try again.

The start button is used to activate starter motor. Whenever start button is pressed, the starter motor will be activated. Releasing start button will deactivate starter motor.

NOTE: The start button will operate only if battery disconnect switch and key switch are ON. Refer to Operating the Engine in this manual.



2—Start Button

CED,TX03679,5173 -19-28JUL99-1/1

Battery Circuit Breaker

The battery circuit breaker (1) is rated at 60 amps and is located inside battery box.

The circuit breaker protects the electrical circuits from a possible overload condition or problem from batteries.

1—Battery Circuit Breaker

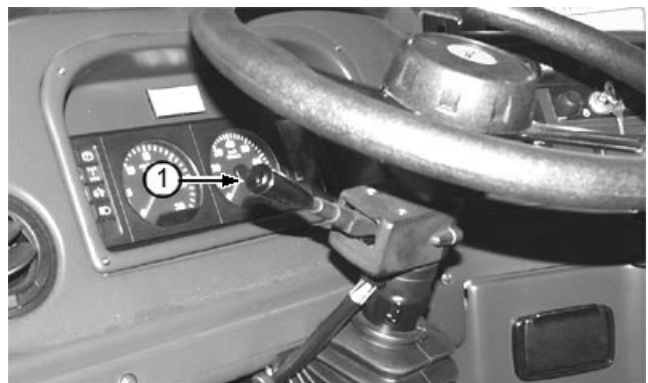


CED,TX03679,5174 -19-28JUL99-1/1

Steering Column Switch

The steering column switch is a lever switch (1) located on the steering column.

1—Steering Column Switch



Continued on next page

CED,TX03679,5175 -19-28JUL99-1/2

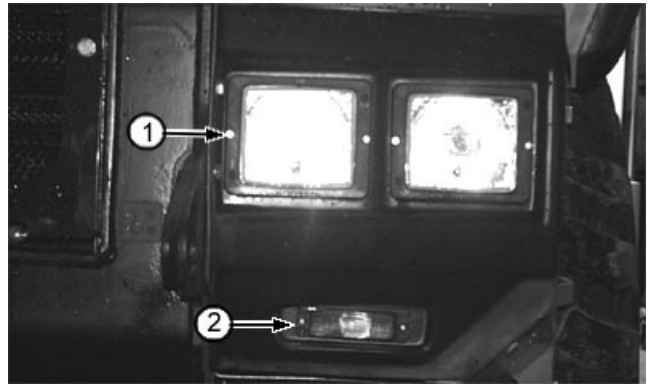
Lights

Headlights

There are four headlights (1), two on each side, and two turn indicators (2).

The high beam and low beam headlights are operated by a switch on steering column. (See Steering Column Switch in this chapter.)

- 1—Headlights (4 used)
- 2—Turn Indicators (2 used)



T122916B -UN-27JUL99

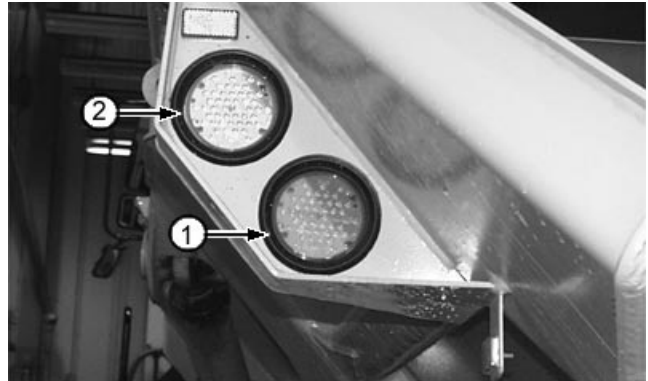
CED, TX03679, 5187 -19-28JUL99-1/3

Tail Lights

The tail lights (1) illuminate when brake pedal is depressed.

The turn signal lights (2) illuminate when turn signal or hazard indicator is engaged.

- 1—Tail Lights
- 2—Turn Signal Lights



T122917B -UN-27JUL99

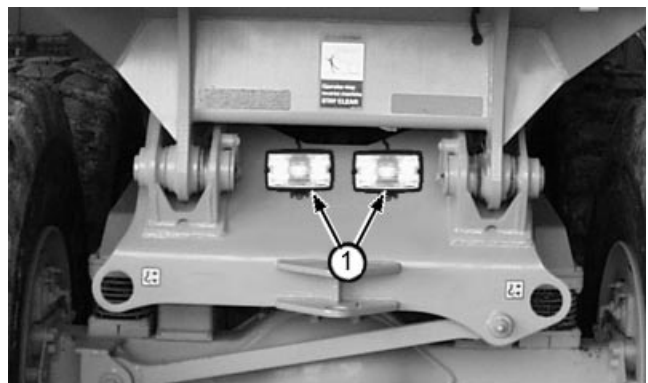
CED, TX03679, 5187 -19-28JUL99-2/3

Backup Lights

The machine is equipped with two white backup lights (1).

When reverse gear is selected on gear control, the lights illuminate and a warning alarm sounds.

- 1—Backup Lights (2 used)



T122918B -UN-27AUG99

CED, TX03679, 5187 -19-28JUL99-3/3

Operating the Engine

8. Operate machine at less than normal loads and at slow idle speed until engine warms up.

CED,TX14740,6360 -19-13APR99-2/2

Using Range Hold

Under certain conditions, the transmission changes up and down between two gears at short intervals. This is because power is insufficient for operating in the higher gear but is sufficient for upshifting from the lower gear.

The range hold switch (1) has two positions:

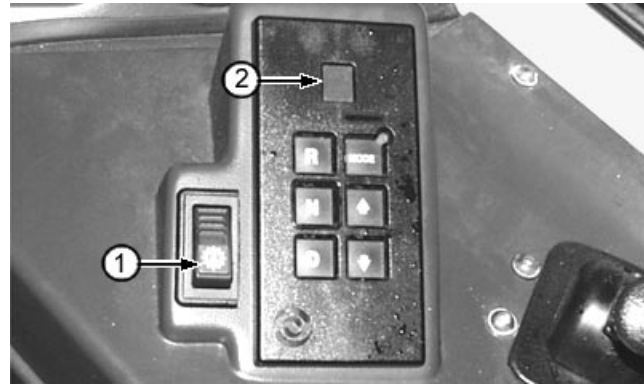
- Switch in normal (up) position—range hold OFF
- Switch in down position—range hold ON

When switch is ON, the transmission will hold the gear that it is in at the time the range hold switch is turned ON. Normal downshifting and upshifting will occur, but transmission will NOT upshift to a gear higher than the held gear until the range hold switch is turned OFF. The exception to this is overspeed condition. (See Engine Overspeed Indicator in Operator's Station chapter.)

When range hold switch is turned ON, the gear shift display window (2), will indicate the gear number that the transmission will be "held" in.

When range hold switch is turned OFF, normal automatic operation mode will continue and the display will show the original value.

When level ground is reached, machine must be operated with range hold OFF.



1—Range Hold Switch
2—Gear Selector Display Window

T122891B -UN-27JUL99

Uphill Operation

The machine operates in full automatic mode and the transmission will select the correct gear for traveling uphill.

Engage inter-axle lock to allow for even traction when operating on slippery roads

Keep engine speed constant at all times when driving uphill.

Shift cycling or “gear hunting” on certain uphill applications can be eliminated by correct use of range hold switch. (See Using Range Hold in Driving the Machine chapter.)

CED,TX03679,5198 -19-29JUL99-1/1

Downhill Operation

Use the exhaust brake and retarder to assist service brakes and to reduce brake pad wear when driving downhill.

Slow down before going downhill so the transmission automatically selects a low gear.

Engage inter-axle lock to improve traction and braking effect during icy or other slippery conditions.

CED,TX03679,5200 -19-29JUL99-1/1

IMPORTANT: Install the articulation safety lock bar prior to lifting machine.

Lifting the Machine

NOTE: The machine lifting points are indicated on machine.

1. Park the machine next to the crane.
2. Engage park brake.
3. Attach chains to the lifting beam and the machine.

IMPORTANT: The crane must be able to carry total machine weight.

4. Attach lifting beam to a crane.

5. Lift the lifting beam until all the play in chain is removed.

IMPORTANT: Move crane slowly to prevent excessive swinging of lifted machine.

6. Lower lifting beam until the chain can be removed from the machine.
7. Lift the lifting beam with chains and move it away from machine.
8. Chock all wheels.
9. Secure machine to the trailer of transporting vehicle with chains. (See Machine Tie-Down Points in this chapter.)

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

Maintenance and Repair Record Keeping System

BREAK-IN SERVICE INTERVALS

Break-in service is required for your machine at intervals shown in chapter 15. Refer to chapter 15 during the first 100 hours of machine operation. After 100 hours refer to service intervals in this chapter.

SERVICE INTERVALS AFTER BREAK-IN

Service your machine at intervals shown on this chart. Also, perform service on items at multiples of the original requirement. For example, at 500 hours also service those items (if applicable) listed under 250 hours, and 10 hours or daily.

As Required

• Check axle restraining cable	• Inspect drive belts, adjust tension
• Inspect tires, check pressure	• Check service brake and park brake pads
• Check radiator	• Check charge air cooler and transmission cooler
• Clean fuel screen	• Drain primary fuel filter
• Check air cleaner elements	• Check air cleaner pre-cleaner bowl
• Check crankcase breather (oil separator)	• Check retarder cooler (hydraulic system)
• Grease door hinges, battery box and grille pivot cap screws	

Every 10 Hours or Daily

• Check axle breathers	• Check engine oil level
• Check hydraulic oil level	• Check transmission oil level
• Drain moisture from air reservoirs	• Grease front axle suspension pivot pins
• Grease steering cylinders	• Grease oscillation and articulation joints
• Grease body lift cylinders	• Grease walking beam pivot pins
• Grease body pivot pins	• Check hood components

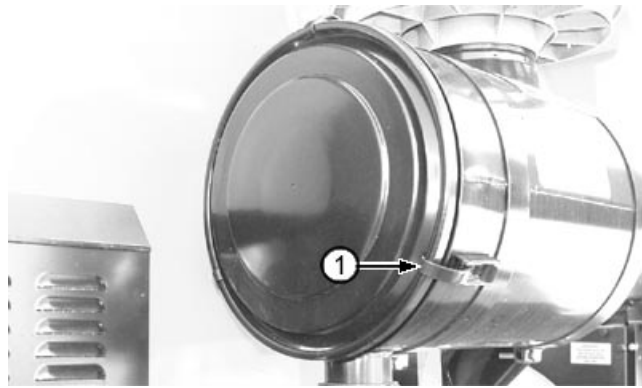
Continued on next page

CED,TX14740,6520 -19-17JUL99-1/4

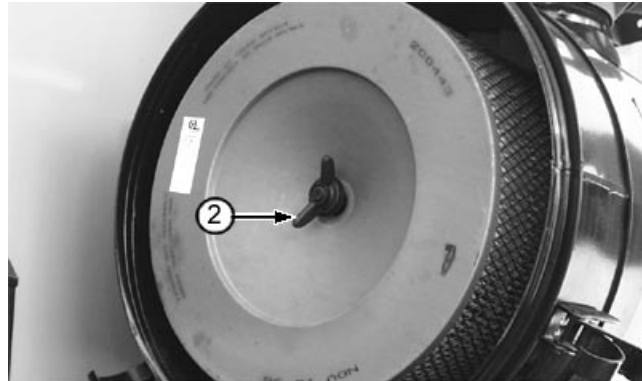
Clean or Replace Primary Air Filter Element

1. Release clips (1) to remove end cover from air cleaner housing.
2. Remove wing nut (2) securing primary filter.
3. Remove primary filter element (3) from air cleaner housing.
4. Discard primary filter element.
5. Clean air cleaner housing and inspect for damage.
6. Install new primary filter element into air cleaner housing and tighten wing nut. Do not overtighten.
7. Install end cover with arrows pointing up and fasten clips onto air cleaner housing.

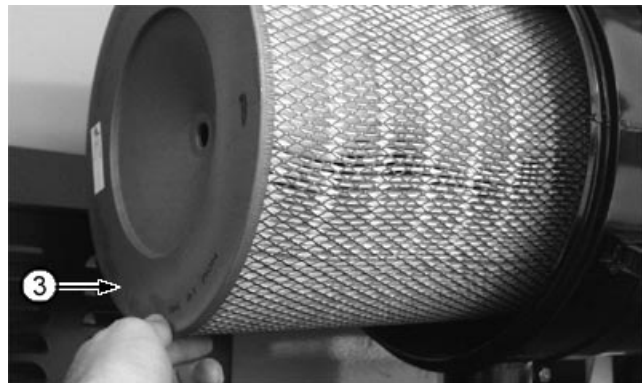
1—Air Cleaner Housing Clips
2—Primary Filter Wing Nut
3—Primary Filter Element



T122997B -UN-29JUL99



T122998B -UN-29JUL99



T122999B -UN-29JUL99

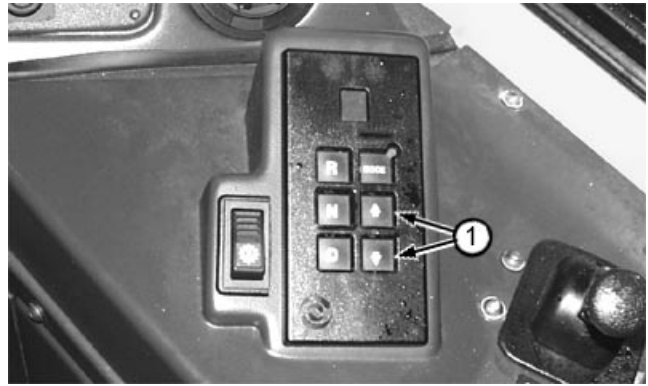
CED,TX03679,5216 -19-29JUL99-1/1

3. Press the up and down arrows (1) simultaneously.

NOTE: The oil level check may be delayed until the following conditions are met:

- The oil temperature is above 65°C (149°F) and below 104°C (220°F).
- The transmission is in neutral (N).
- The machine has been stationary for approximately two minutes, allowing oil to settle.
- The engine is at slow idle.
- The transmission output shaft has stopped rotating.

Delayed oil level check is a flashing display and a digital countdown from 8 to 1.



1—Up and Down Arrows

4. Check the characters displayed.

5. The oil level information is sequentially displayed in the gear selector display window for the following conditions:

Correct Oil Level

- “O” then “L” are displayed (“OL” represents “Oil Level Check Mode”). Following are “O” then “K”. The OK display indicates the oil is within safe operating level. The sensor display and the transmission dipstick may not agree because the sensor compensates for oil temperature.

Low Oil Level

- “O” then “L” are displayed (“OL” represents “Oil Level Check Mode”). Following are “L” then “O” (the LO represents Low Oil Level) and the number of quarts that the transmission oil is low, e.g., “O” then “2” indicates two additional quarts of oil will bring the oil level to safe operating level.

Continued on next page

CED,TX03679,5244 -19-30JUL99-2/3

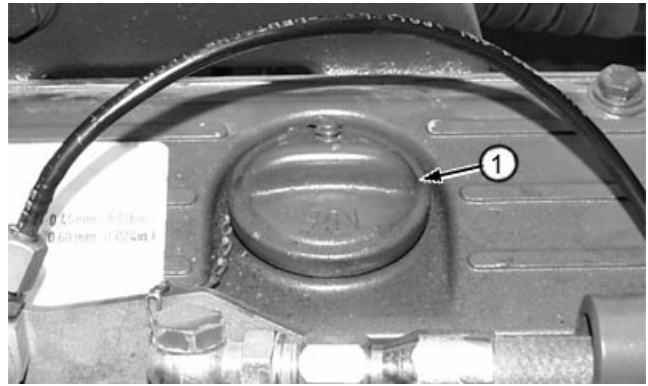
Fill Engine with Oil

1. Clean oil filler cap (1) and surrounding area.
2. Remove oil filler cap.

IMPORTANT: DO NOT overfill the engine with oil.

3. Fill with oil until oil level is on the upper mark on the dipstick. (See Fuels and Lubricants chapter.)

1—Oil Filler Cap



T123117B -UN-29JUL99

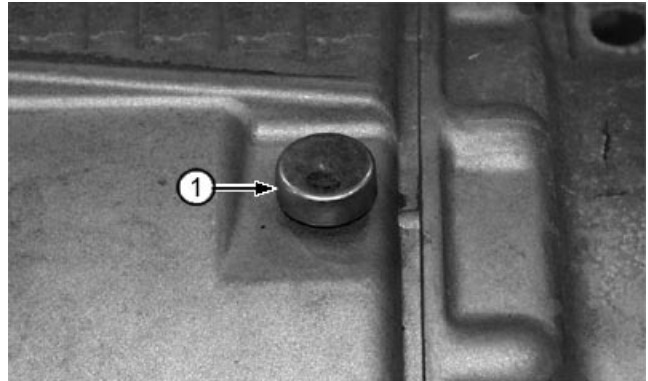
CED,TX14740,6550 -19-22JUL99-6/6

Check and Clean Transmission Breather

The transmission breather must be checked daily in adverse working conditions. The amount of dust and dirt will determine the frequency of breather cleaning.

IMPORTANT: DO NOT spray steam, water or cleaning solution directly at breather; spray could be forced into transmission.

1. Remove cab front floor panel.
2. Ensure that transmission breather (1) is tight and clean.
3. If breather is encased in mud or dirt, it must be scraped clean, or removed and cleaned in water.



T123007B -UN-17AUG99

1—Transmission Breather

CED,TX14740,6551 -19-22JUL99-1/1

Maintenance—Every 1000 Hours

Change Transfer Case Oil

NOTE: The oil in transfer case must be warm to make draining oil easier.

1. Place a container under the transfer case drain plug (1).

Specification

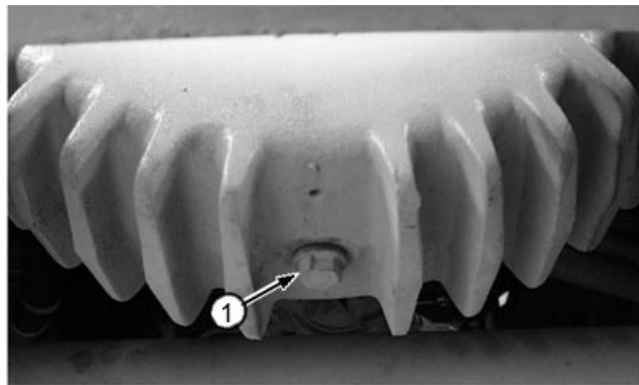
Transfer Case Oil—Capacity..... 4.5 L (5 qt)

2. Remove drain plug and sealing ring.
3. Allow oil to drain.
4. Clean drain plug and sealing surface on housing.
5. Install drain plug with new sealing ring.
6. Tighten drain plug to specification.

Specification

Transfer Case Drain Plug—
Torque 25—32 N•m (38—45 lb-ft)

7. Inspect the drained transfer case oil for evidence of dirt, foreign matter or excessive water. (A small amount of condensation is normal.) Dispose of waste oil properly.



T123129B -UN-29JUL99

1—Transfer Case Drain Plug

Continued on next page

CED,TX14740,6570 -19-23JUL99-1/2

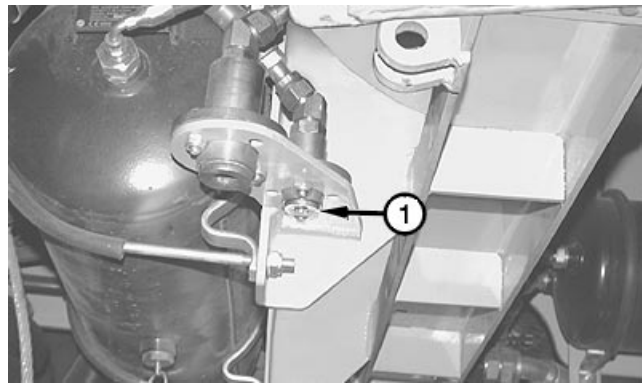
Maintenance—Every 2000 Hours

Change Transmission Oil

It is not necessary to change transmission oil until a contaminated OILSCAN Plus® sample is indicated. Draw sample from transmission oil drain by removing plug (1).

OILSCAN Plus samples should be taken initially at 1000 hours, followed by every 500 hours of operation.

If transmission oil must be changed, see your authorized dealer for more information.



T123977B -JUN-25AUG99

Specification

Transmission Oil—Capacity 18 L (4.75 gal)

1—Transmission Drain Plug

OILSCAN Plus is a registered trademark of Deere & Company

CED, TX14740, 6568 -19-23JUL99-1/1

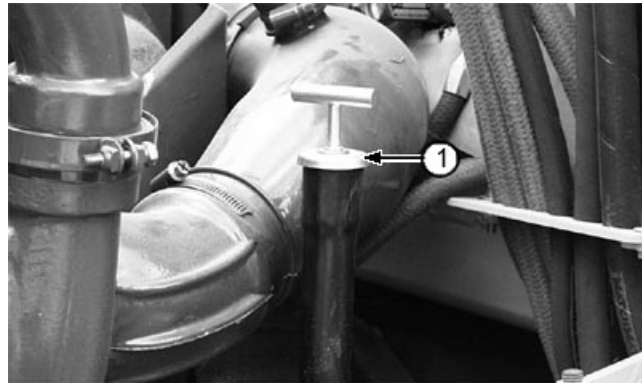
Replace Transmission Filters

See your authorized dealer.

CED, TX14740, 6569 -19-23JUL99-1/1

Add Transmission Oil

1. Put a funnel in the dipstick tube (1) to add the transmission oil.
2. Fill the transmission with correct grade of oil. (See Fuels and Lubricants chapter.)
3. Check the oil with dipstick at regular intervals during the filling procedures. Use the Cold Check method initially, followed by one of the two other methods listed in Check Transmission Oil Level—Dipstick Method or Electronic Method in Maintenance—Every 10 Hours or Daily chapter.
4. Check for leaks at drain plug.

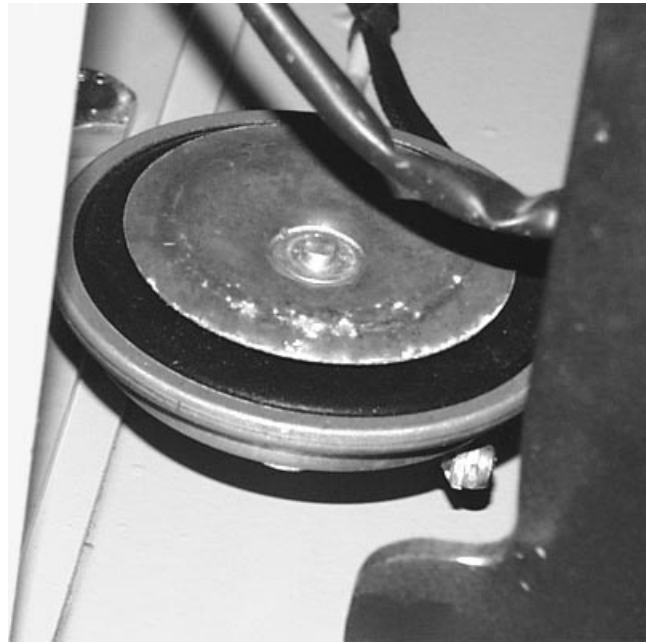


T123038B -JUN-28JUL99

1—Dipstick Tube

CED, TX03679, 5255 -19-04AUG99-1/1

- Test the horn and ensure that it is tightly mounted.



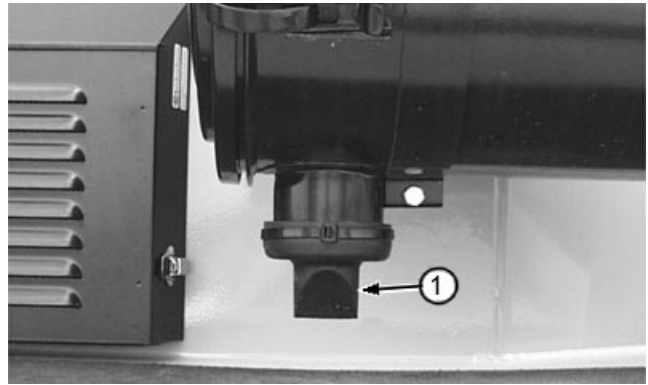
TI22930B -UN-27JUL99

CED,TX03679,5248 -19-30JUL99-3/3

Clean Dust Unloader Valve

1. Squeeze dust unloader valve (1) to remove dust or debris.
2. Check that the dust unloader valve is undamaged and free from obstruction. Replace if necessary.

1—Dust Unloader Valve



TI23035B -UN-29JUL99

CED,TX03679,5241 -19-30JUL99-1/1

Bleeding Fuel System

The fuel system must be bled after performing service procedures on the fuel system. This ensures that any air that may have entered the fuel system has been expelled.

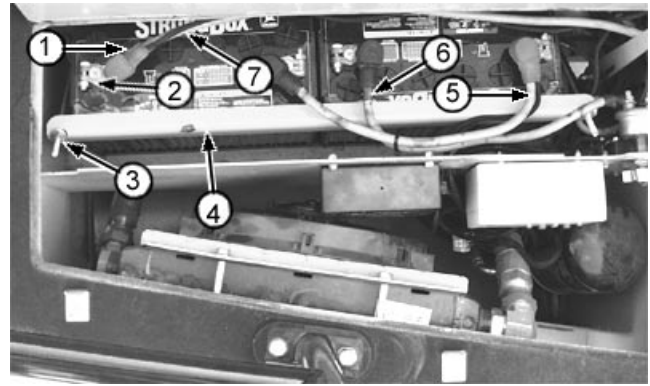
Continued on next page

CED,TX03679,5215 -19-29JUL99-1/2

Replace Batteries

CAUTION: Always remove grounded (—) battery clamp first and replace it last.

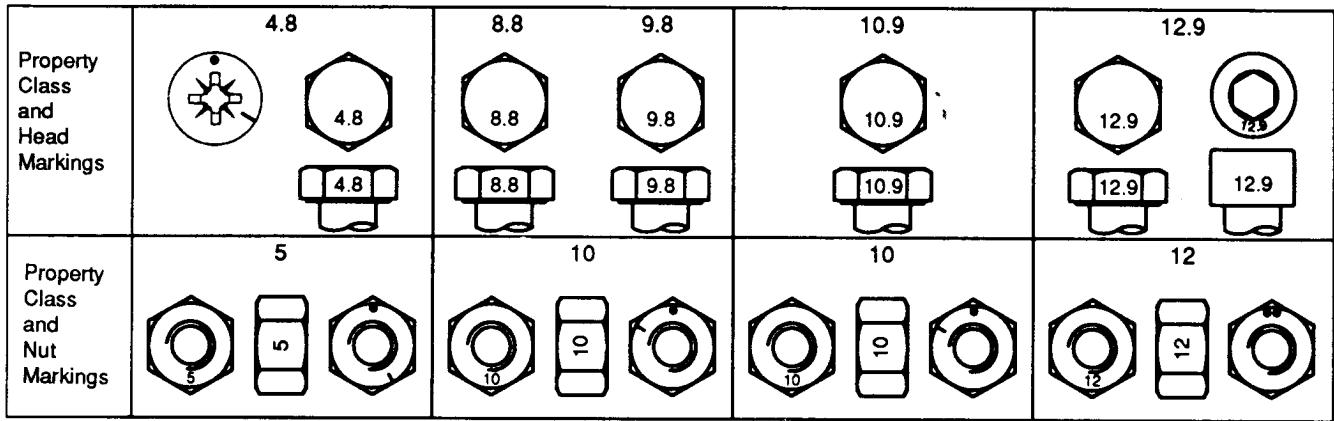
1. Open battery box lid to access batteries.
2. Turn battery disconnect switch OFF.
3. Lift the rubber terminal covers (1) and remove the battery terminal nuts (2) from the battery.
4. Remove cables from terminals.
5. Remove nuts (3) and remove clamping bracket (4).
6. Remove the battery and clean the battery cable lugs.
7. Install new battery.
8. Connect battery A positive (+) cable (5) to battery B.
9. Connect battery A negative (—) cable (6) to battery disconnect switch.
10. Connect battery B positive (+) cable (7) to circuit breaker.
11. Turn battery disconnect switch ON.
12. Check battery charge indicator. (See Battery Charge Indicator in Operator's Station chapter.)
13. Start engine and ensure that battery charge indicator goes out, indicating that the batteries are receiving charge.



- 1—Rubber Terminal Covers
- 2—Battery Terminal Nuts
- 3—Nuts
- 4—Bracket
- 5—Battery A Positive (+) Cable
- 6—Battery A Negative (—) Cable
- 7—Battery B Positive (+) Cable

CEDEX03679,5230 -19-30JUL99-1/1

Metric Bolt and Cap Screw Torque Values



Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

^a "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

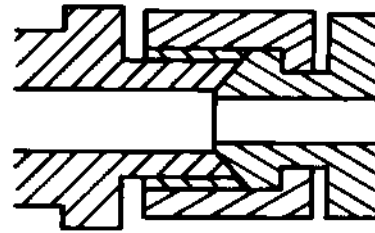
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

TS1657 -19-02APR97

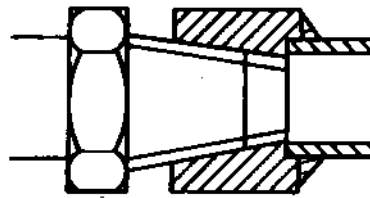
Service Recommendations for Flared Connections—Straight or Tapered Threads

1. Inspect flare and flare seat. They must be free of dirt or obvious defects.
2. Defects in the tube flare cannot be repaired. Overtightening a defective flared fitting will not stop leaks.
3. Align the tube with the fitting before attempting to start the nut.
4. Lubricate the male threads with hydraulic oil or petroleum jelly.
5. Index angle fittings and tighten by hand.
6. Tighten fitting or nut to torque value shown on the chart. Do not allow hoses to twist when tightening fittings.



T6873AE

Straight Thread



T6873AD

Tapered Thread

TORQUE CHART ^a

Thread Size	Straight Thread ^b		Tapered Thread	
	N•m	lb-ft	N•m	lb-ft
1/8	15	11		
1/4	20	15	45	33
3/8	29	21	69	51
1/2	49	36	93	69
3/4	69	51	176	130
1	157	116	343	253
1-1/2	196	145	539	398
2	255	188	588	434

^aTorque tolerance is $\pm 10\%$.

^bWith seat face.

NOTE: If female thread is cast iron (control valves, brake valves motors, etc.), torque must be reduced approximately 10%.

T6873AE -JUN-18OCT88

T6873AD -JUN-18OCT88

Troubleshooting

Symptom	Problem	Solution
Black Smoke from Exhaust	Air inlet system restricted	Service and repair inlet system. (See Clean or Replace Air Filter Element in Maintenance—As Required chapter.)
	Incorrect grade of fuel	Drain and fill fuel tank. (See Bleeding Fuel System in Maintenance chapter.)
Blue Smoke from Exhaust	Engine oil level too high	Drain to correct level.
White Smoke from Exhaust	Engine running too cold	Check cooling system.
	Water in fuel supply	Clean fuel system. (See Bleeding Fuel System in Maintenance chapter).

CED, TX14740, 6397 -19-04MAY99-5/5

Transmission

Symptom	Problem	Solution
Low Clutch Pressure	Low oil level	Fill transmission. (See Check Transmission Oil Level in Maintenance—Every 10 Hours or Daily chapter.)
Low Converter Charging Pump Output	Low oil level	Fill transmission. (See Check Transmission Oil Level in Maintenance—Every 10 Hours or Daily chapter.)
	Suction screen blocked	Clean suction screen.
Transmission Overheats	Low oil level	Fill transmission. (See Check Transmission Oil Level in Maintenance—Every 10 Hours or Daily chapter.)

CED, TX14740, 6398 -19-04MAY99-1/1

Troubleshooting

Diagnostic Code List and Description

Main Code	Sub-Code	Description	DNS Indicator	Inhibited Operation Description	Recommended Procedures
13	12	TCU input voltage, low	Yes	DNS, DNA, SOL OFF (hydraulic default)	Check: Battery direct ground and power connections are tight and clean. Vehicle batteries are charged. Vehicle charging system is not over- or under-charging. VIM connections are tight, clean and undamaged. Wiring is correctly installed. TCU connectors are tight, clean and undamaged.
	13	TCU input voltage, medium low	No	DNA	Same as above.
	23	TCU input voltage, high	Yes	DNS, SOL OFF (hydraulic default)	Same as above.
14	12	Oil level sensor, failed low	No	None	Check: Engine speed sensor, output speed sensor and oil level sensor are working correctly. Wiring harness for open circuits and short circuits to ground or to battery.
	23	Oil level sensor, failed high	No	None	Same as above.
21	12	Throttle position sensor, failed low	No	Use throttle default values, DNA	Check: TPS connector is properly connected. End of TPS cable is pulled out properly. Engine fuel lever is in idle position and provides correct amount of stroke on TPS cable. Wiring harness to TPS for open circuits and short circuits to ground or between wires.
	23	Throttle position sensor, failed high	No	Use throttle default values, DNA	Same as above.
22	14	Engine speed sensor reasonableness test	No	Use default engine speed, DNA	Check: Speed sensor connectors are tight, clean and undamaged. Speed sensor mounting cap screws are correctly torqued to 24—29 N•m (18—21 lb-ft) Wiring harness to sensors for open circuits and short circuits to ground or between wires.
	15	Turbine speed sensor reasonableness test	Yes	DNS lock in current range, DNA	Same as above

Continued on next page

CED,TX03679,5261 -19-04AUG99-2/15

Troubleshooting

Diagnostic Code List and Description

Main Code	Sub-Code	Description	DNS Indicator	Inhibited Operation Description	Recommended Procedures
55	07	Oncoming C3PS test (after shift), N4 to 6	Yes ^a	DNS, NNC, DNA	Park machine on level ground. Allow engine to idle with park brake applied and wheels chocked. Check: Correct dipstick is installed. Fluid level is correct. Check: Output and turbine speed sensor connectors are tight, clean and undamaged. Speed sensor wiring harness for open circuits and short circuits to ground or between wires. TCU connectors and transmission connectors are tight, clean and undamaged. C3 pressure switch wiring for open circuits and short circuits to ground or between wires.
	17	Oncoming C3PS test (after shift), 1 to R	Yes ^a	DNS, NNC, DNA	Same as above.
	27	Oncoming C3PS test (after shift), 2 to R	Yes ^a	DNS, NNC, DNA	Same as above.
	87	Oncoming C3PS test (after shift), N1 to R	Yes	DNS, RPR, DNA	Same as above.
	97	Oncoming C3PS test (after shift), NVL to R	Yes ^a	DNS, NNC, DNA	Same as above.
	XY	Oncoming C3PS test (after shift), X to Y ^c			Same as above.
56	00	Range verification test, L	Yes ^a	DNS, 1st, Low or SOL OFF (Low), DNA	Check: Output and turbine speed sensor connectors are tight, clean and undamaged. Speed sensor wiring harness for open circuits and short circuits to ground or between wires. TCU connectors and transmission connectors are tight, clean and undamaged. Park machine on level surface. Allow engine to idle with park brake applied and wheels chocked. Check: Correct dipstick is installed. Fluid level is correct.

^aThis code is logged to real time to protect the transmission in case a loss of power to the TCU (power interruption, code 35 00) occurs.

^cAdditional codes should be logged for other shifts where X indicates range shifted from and Y indicates range shifted to.

Specifications

- | | | | |
|--|--|--|---|
| 1—Height of Body Backsplash Raised
2—Height of Body Backsplash Lowered
3—Top of Body Side
4—Lip to Ground Height, Body Lowered
5—Lip to Ground Height at 70° Body Dump Angle | 6—Body Dump Angle
7—Cab Height
8—Exhaust Pipe Height
9—Machine Minimum Ground Clearance
10—Front Towing Point to Front Axle Center | 11—Front Axle Center to Middle Axle Center
12—Middle Axle Center to Rear Axle Center
13—Machine Overall Length
14—Mirror Brackets Overall Width | 15—Body Overall Width
16—Tire Track Width Center to Center of Tire
17—Tires Overall Width
18—Steering Angle
19—Outside Turning Radius
20—Inside Turning Radius |
|--|--|--|---|

NOTE: Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with SAE standards. Except where otherwise noted,

specifications are based on a machine equipped with all standard equipment, 79 kg (175 lb) operator, and full fuel tank.

Item	Measurement	Specification
B25C Articulated Dump Truck Specifications		
1—Body Backsplash Raised	Height	6049 mm (19 ft 10 in.)
2—Body Backsplash Lowered	Height	3302 mm (10 ft 10 in.)
3—Top of Body Side	Height	2730 mm (9 ft 0 in.)
4—Lip to Ground Height, Body Lowered	Height	1978 mm (6 ft 6 in.)
5—Lip to Ground Clearance at 70° Body Dump Angle	Length	549 mm (1 ft 9 in.)
6—Body Dump	Angle	70°
7—Cab	Height	3357 mm (11 ft 0 in.)
8—Exhaust Pipe	Height	3367 mm (11 ft 1 in.)
9—Machine Ground	Clearance	490 mm (1 ft 6 in.) minimum
10—Front Towing Point to Front Axle Center	Length	2180 mm (7 ft 2 in.)
11—Front Axle Center to Middle Axle Center	Length	4108 mm (13 ft 6 in.)
12—Middle Axle Center to Rear Axle Center	Length	1650 mm (5 ft 5 in.)
13—Machine Overall	Length	9167 mm (30 ft 1 in.)

Continued on next page

CED,OUO1065,71 -19-09NOV99-2/3

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