

# Pre-Operational Tasks

## Zone 8

### In Cab Inspection

- Dash Lights Test
- Emergency Steering
- Brake Test (Dynamic, Service & Wheel Lock)
- Park Brake Test on a Grade
- Complete all items on computer inspection.



# Komatsu 930E 4SE Cab Layout

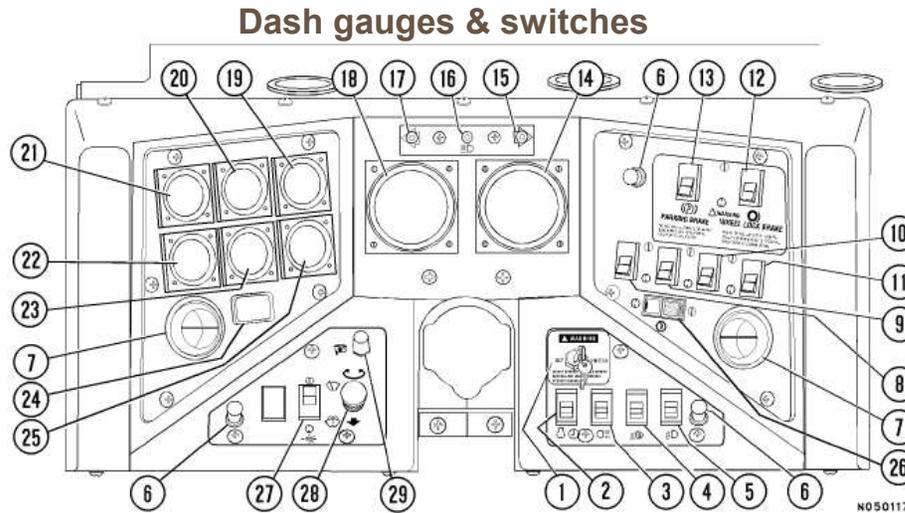
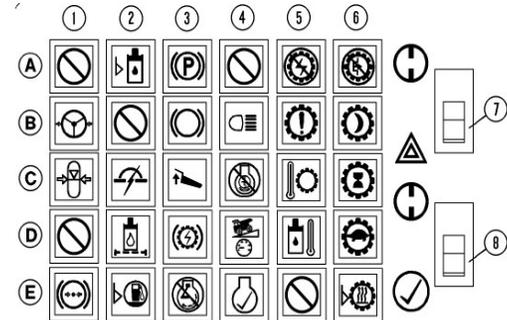


FIGURE 3-6. PANEL GAUGES, INDICATORS, AND CONTROLS

- |   |   |
|---|---|
| 1. Keyswitch                                      | 15. Right Turn Signal Indicator Light         |
| 2. Engine Shutdown Switch with Timer Delay        | 16. High Beam Headlight Indicator Light       |
| 3. Backup Light Switch (N/O.)                     | 17. Left Turn Signal Indicator Light          |
| 4. Ladder Light Switch (3 - Way)                  | 18. Digital Speedometer                       |
| 5. Fog Light Switch (N/O.)                        | 19. Voltmeter Gauge                           |
| 6. Panel Illumination Light(s)                    | 20. Engine Oil Pressure Gauge                 |
| 7. Vent(s) - Cab Air Conditioner/Heater           | 21. Engine Water Temperature Gauge            |
| 8. Not used on 930E                               | 22. Fuel Gauge                                |
| 9. Rotating Beacon Light Switch (N/O.) (Optional) | 23. AC Drive System Temperature               |
| 10. Heated Mirror Switch (N/O.) (Optional)        | 24. Engine Hourmeter                          |
| 11. Not used on 930E                              | 25. Hydraulic/Brake Oil Temperature           |
| 12. Wheel Brake Lock Switch (N/O.)                | 26. AC REST Switch                            |
| 13. Parking Brake Switch (N/O.)                   | 27. Headlights Switch (N/O.)                  |
| 14. Digital Tachometer                            | 28. Wiper / Washer Switch                     |
|   | 29. Panel Illumination Lights Dimmer Rheostat |

## Overhead panel



## Dynamic Retarding Grade Chart

**CAUTION**

DO NOT DESCEND GRADES AT SPEEDS GREATER THAN LISTED WHEN VEHICLE IS LOADED AT MAX. G.V.W. 1,100,000 LB. (498,957 kg) & 53/80 R 63 TIRES.

EFFECTIVE GRADE (%)	SPEED (MPH(KM/H))	
	(CONTINUOUS)	(SHORT TERM)
12	15(24)	19(31)
10	11(18)	23(37)
8	14(23)	29(47)
6	19(31)	36(58)
4	29(47)	

THE ACTUAL GRADE CAPABILITY WILL VARY DEPENDING ON OUTSIDE TEMPERATURE, SYSTEM TEMPERATURE, ROLLING RESISTANCE, LOAD, AND TIRE SIZE. THE ABOVE IS BASED ON 32° C (90°F) OUTSIDE TEMPERATURE AND ASSUMES THAT ROAD AND VISIBILITY CONDITIONS PERMIT THE USE OF ALL AVAILABLE RETARDING TORQUE WITHOUT SLIDING. FOR ADDITIONAL BRAKING AND RETARD INFORMATION, SEE OPERATION MANUAL.

ACTUAL GRADE, NOT INCLUDING ROLLING RESISTANCE.

WB2751

# Komatsu 930E 3SE Cab Layout

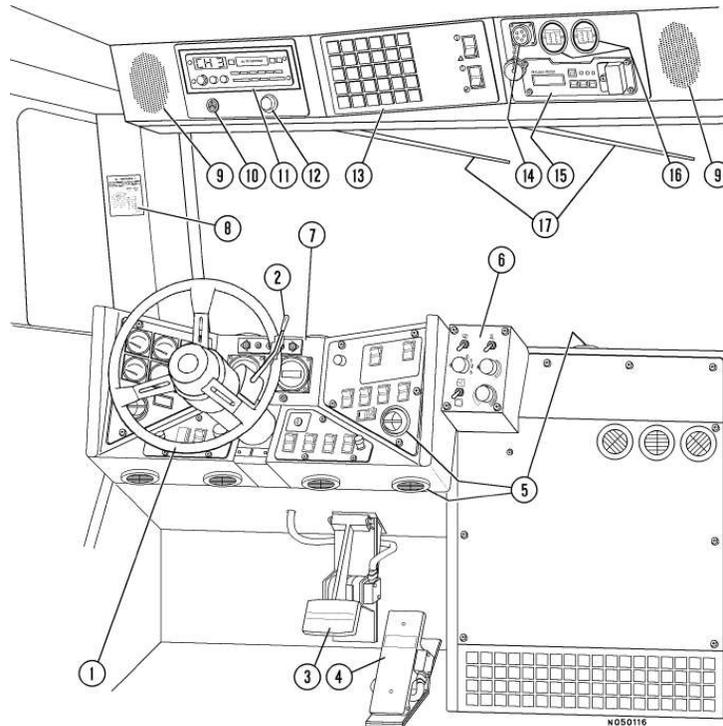


FIGURE 3-1. CAB INTERIOR - OPERATOR VIEW

- |                                    |                                   |                                      |
|------------------------------------|-----------------------------------|--------------------------------------|
| 1. Steering Wheel                  | 7. Instrument Panel               | 12. Warning Lights Dimmer Control    |
| 2. Retarder Control Lever          | 8. Grade / Speed Chart            | 13. Warning/Status Indicator Lights  |
| 3. Retarder / Service Brake Pedal  | 9. Radio Speakers                 | 14. Payload Meter Download Connector |
| 4. Throttle / Accelerator Pedal    | 10. Warning Alarm Buzzer          | 15. Payload Meter II                 |
| 5. Heater/Air Conditioner Vents    | 11. Radio, AM/FM Stereo, Cassette | 16. Air Cleaner Vacuum Gauges        |
| 6. Heater/Air Conditioner Controls |                                   | 17. Windshield Wipers                |

## CENTER CONSOLE

The Center Console (1, Figure 3-4) contains:

- (1) Center Console
- (2) F-N-R Selector Switch
- (3) Hoist Control Lever
- (4) Ash Tray
- (5) Cigar/Cigarette Lighter
- (6) L.H. Window Control Switch
- (7) R.H. Window Control Switch
- (8) Engine Shutdown Switch
- (9) Override/Fault Reset Switch
- (10) BLANK - NOT USED on this truck
- (11) RSC "Off/On" Switch
- (12) Retarder Speed Control Dial
- (13) Propulsion System Controller (PSC) Diagnostic Port
- (14) Engine Diagnostic Port
- (15) Truck Control Interface (TCI) Diagnostic Port
- (16) Passenger Seat (mounted on top of the right hand portion of the Console structure)

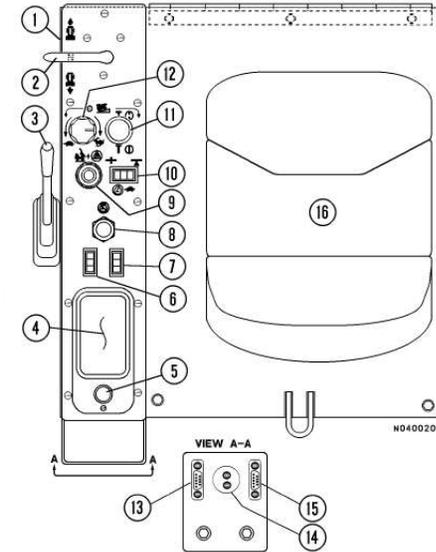


FIGURE 3-4. CENTER CONSOLE

## F-N-R SELECTOR SWITCH

The Selector Switch (2, Figure 3-4) is mounted on a console to the right of the operator's seat. It is a three position switch which controls the Forward-Neutral-Reverse motion of the truck. When the Selector Switch handle is in the center "N" position, it is in "Neutral". **The handle must be in Neutral to start the engine.**



The operator can select **Forward** drive by moving the handle forward.

**Reverse** drive can be selected by moving the handle to the rear.

**The truck should be stopped** before the selector handle is moved to a drive position.

# OVERHEAD WARNING PANEL

- Indicator lights which are **RED** alert the operator that the indicated truck function requires **immediate action** by the operator.
- SAFELY stop the truck and shut down the engine. Call Mine Care immediately!
- **DO NOT OPERATE THE TRUCK WITH A RED WARNING LIGHT ILLUMINATED!!!!**

# OVERHEAD WARNING PANEL

- Status lights which are **YELLOW** (**amber**) alert the operator that the indicated truck function requires some precaution.
- Contact Mine Care when a Yellow warning light is illuminated.
- Let's have a look at the lights.

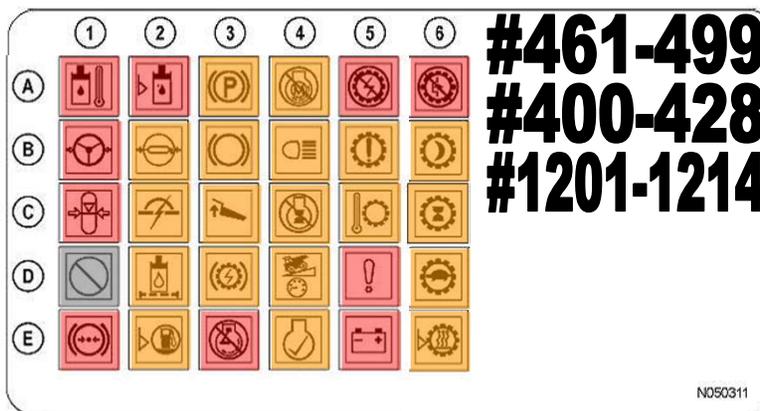
OVERHEAD STATUS / WARNING INDICATORS

# 930E-4se

## #461-499

## #400-428

## #1201-1214



N050311

FIGURE 5-7. OVERHEAD STATUS / WARNING INDICATOR

Row / Column	Indicator Description	Indicator Color Wire Index
A1*	High Brake Oil Temp.	Red-24VIM/34TL
B1*	Low Steering Pressure	Red-12F/33A
C1	Low Accumulator Press.	Red-12F/33K
D1	Not Used	
E1	Low Brake Pressure	Red-12F/33L
A2*	Low Hydraulic Oil Level	Red-12F4/34LL
B2*	Low Automatic Lubrication Pressure	Amber-12MD8/68LLP
C2*	Circuit Breaker Tripped	Amber-12MD3/31CB
D2*	Hydraulic Oil Filter	Amber-12MD/39
E2*	Low Fuel	Amber-24VIM/38
A3*	Park Brake Applied	Amber-24VIM/52AL
B3*	Service Brake Applied	Amber-12MD/44L
C3*	Body Up	Amber-12MD6/63L
D3*	Dynamic Retarding	Amber-12MD/44DL
E3	Stop Engine	Red-12M/31MT
A4*	Starter Failure	Amber-21SL/24VIM
B4*	Manual Back-Up Lights	Amber-12MD/47L
C4*	Timed Engine Shutdown	Amber-12MD/23L1
D4*	Retard Speed Control	Amber-12MD/31R
E4*	Check Engine	Amber-12MD7/419

Row / Column	Indicator Description	Indicator Color Wire Index
A5	No Propel/ No Retard	Red-12M/75-6P1
B5	Propulsion System Warning	Amber-12F/79WI
C5	Propulsion System Temperature	Amber-12F/34TW1
D5	Interface Module Warning	Red-24VIM/311MLI
E5	Battery Charge System Failure	Red-24VIM/11BCF1
A6	NO PROPEL	Red-12M/75NPI
B6	Propulsion System @ Rest	Amber-12M/72PR1
C6*	Propulsion System Not Ready	Amber-12MD/72NR1
D6*	Reduced Propulsion System	Amber-12MD/72LP1
E6*	Retard @ Reduced Level	Amber-12MD/76LR1

\* Brightness for these indicator lamps can be adjusted by using dimmer control (12, Figure 5-1).

# 930E-3se OVERHEAD STATUS / WARNING INDICATORS

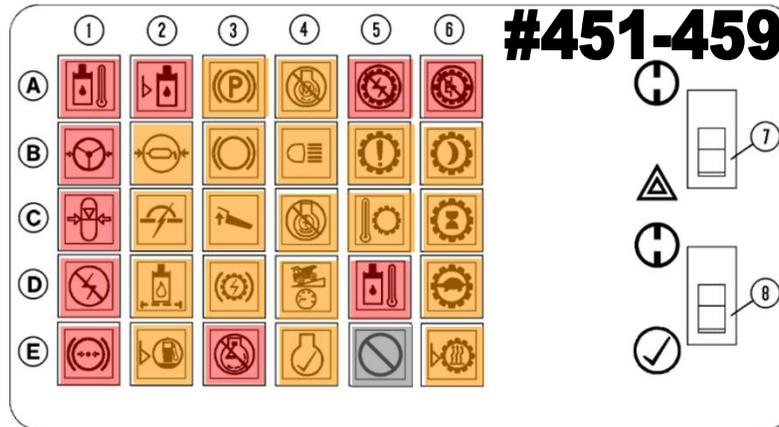


FIGURE 5-8. OVERHEAD STATUS / WARNING INDICATOR

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Row / Column	Indicator Description	Indicator Color Wire Index
A1*	Hydraulic Oil Temperature High	Red - 12FD3/34TL
B1*	Low Steering Pressure	Red-12FD/33A
C1	Low Accumulator Pr.	Red-12F/33K
D1	Electric System Fault	Red-12F/79V
E1	Low Brake Pressure	Red-12F/33L
A2*	Hydraulic Tank Level	Red-12F4/34LL
B2*	Low Automatic Lubrication Pressure	Amber-12FD8/68LLP
C2*	Circuit Breaker Tripped	Amber-12FD/31CB
D2*	Hydraulic Oil Filter	Amber-12FD/39
E2*	Low Fuel	Amber-12F5/38
A3*	Park Brake Applied	Amber-12MD/52A
B3*	Service Brake Applied	Amber-12MD/44L
C3*	Body Up	Amber-12MD6/63L
D3*	Dynamic Retarding	Amber-12MD/44DL
E3	Stop Engine	Red-12M/509MA
A4*	Starter Failure	Amber-21SL/710
B4*	Manual Back-Up Lights	Amber-12MD/47L
C4*	5 Min. Shutdown Timer	Amber-12MD/23L1
D4*	Retard Speed Control	Amber-12MD/31R
E4*	Check Engine	Amber-12MD7/419

Row / Column	Indicator Description	Indicator Color Wire Index
A5	No Propel / No Retard	Red-12M/75-6PI
B5	Propulsion System Warning	Amber-12F/79WI
C5	Propulsion System Temperature	Amber -12F/34TW
D5	Hydraulic Brake Oil Temperature High	Red-12F/34TGI
E5	Not Used	Red-12M/528A
A6	NO PROPEL	Red-12M/75NPI
B6	Propulsion System @ Rest	Amber-12M/72PR
C6*	Propulsion System Not Ready	Amber-12MD/72NR
D6*	Reduced Propulsion System	Amber-12MD/72LP
E6*	Retard @ Continuous Level	Amber-12MD/76LR
-Switches-		
7	Hazard Lights Switch N/O	11L/45L/45R
8	Lamp Check Switch N/O (Momentary)	33H/528/710/712P

\* NOTE: Brightness for these Indicator Lamps can be adjusted by using dimmer control (12, Figure 5-2).

# Haul Truck Downable Items

- Don't walk under truck (inspection) without a wheel chock & LOTO
- Any steady stream of fluid
- Damaged/expired fire suppression or fire extinguisher
- Missing fire suppression pins, cartridges, seals
- Don't drive truck without a horn for signaling
- Back-up alarm B.O.
- Seat belt/ tethers damaged or unsecure
- Any failed brake test
- Low pressure in tire (get tire mechanic or truck shop assignment)
- 2 lugs missing in a row or 3 scattered on wheel
- Smoke wisps coming from tire
- Worn through 3 layers of cord on tire
- Any cracks longer than 1/2" on frame, wishbone, major components or tire hardware
- Unstable hand rails or B.O. emergency egress
- Any new damage to truck (call supervisor before operation)
- 3- engine de-rates (20%+) in one shift (Cat 793)
- 3- brake cylinder pins dropping (brake stroke) in one shift (Cat 793)
- B.O. radio (get hand held before operation)
- Full set of lights out on one side of the truck (e.g. 4 driving lights but 2 out on right side)
- Oil in axle box housing on Komatsu truck
- Extreme heat when with no A/C (dehydration, heat cramps)
- Missing or cracked driver side mirror to the point it is a safety issue
- No way to document inspection
- Wipers during a storm
- Severe window cracking/shattered
- Any 3<sup>rd</sup> stage warning on vims/advisor or red light on Komatsu warning system
- Any other safety item that may compromise the operators safety or anything leading to damage of the truck (operator should err on the side of safety and get a mechanic or be advised by Mine Care before operation)

# Fatigue Management Drivers Safety System (DSS) Accountabilities

You are required to comply with the fatigue management related aspects of the RTK Fitness for Work Standard by:

- Ensuring that you are fit for work.
- Maintaining a level of health and fitness that ensures your health and fitness does not contribute to fatigue.
- Ensuring non-work activities do not affect your ability to work safely.
- Report any Fitness for Work related issues that may affect your ability to work safely, especially any medications you are taking.

