

Service Manual

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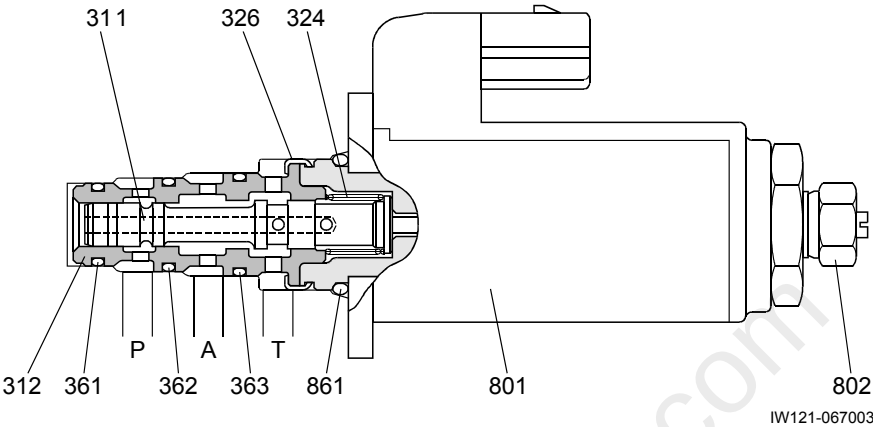
Rough Terrain Crane

Model **GR-350XL-2**

Applicable Serial No. 561490 --

Solenoid Valve (Pilot Pressure)

Solenoid valve assy



- 311.Spool
312.Sleeve
324.Spring
- 326.Retaining ring
361.O-ring
362.O-ring
- 363.O-ring
801.Solenoid valve
802.Seal nut
861. O-ring

Thread size and tightening torque

Sign / port	Thread size	Tightening torque		
		N-m	kgf-m	ft-lbf
802	M6	6.9 - 7.9	0.7 - 0.8	5.1 - 5.8

Crane Cab Glass

K-1 Crane Cab Glass

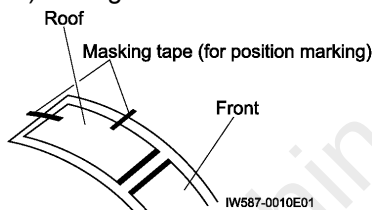
1. Glass replacement procedure

Follow the procedure described below to replace the fixed windshield window glass, roof glass, front right window glass (quarter window glass) and rear right window glass of the crane cab.

1. Remove the glass to replace and the adhesive from the cab body, and clean the window opening surfaces.
2. Fit a trim all around the glass bonding frame of the cab body.

[NOTICE]

- ◆ Make adjustments so that the glass and the rubber dam of the trim will make even contact with each other.
- 3. Temporarily set a new glass on the cab, attach pieces of masking tape across the glass and frame in more than two places to mark their relative positions, and then remove the glass. (Example) Roof glass



4. Clean and degrease the glass bonding surfaces of the cab body with a new gauze soaked with white gasoline or acetone. Wait for more than a minute to let them dry.

[NOTICE]

- ◆ Shake the primer bottle well and then apply the primer with a brush, while making sure that there is no portion left uncoated.
- ◆ Prevent the primer coated surfaces from any contact with hand, brush hairs, dust, water drops, etc.
- ◆ The primer deposited on a surface other than the glass bonding surfaces should be immediately wiped away with a cloth soaked with white gasoline.
- 5. Apply a 5 to 20 μ m (0.0002 to 0.0008 inch) thick coat of primer C to the glass bonding surfaces of the cab body.

- Primer C:
AR Primer for cab (clear)
Cemedine Co., Ltd.

6. Let the primer C coated surfaces dry for more than 15 minutes.

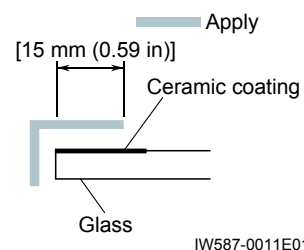
7. Clean and degrease the bonding surfaces of the new glass with a gauze soaked with white gasoline or acetone. Leave it more than 1 minute to dry.

[NOTICE]

- ◆ Shake the primer bottle well and then apply the primer with a brush. While making sure that there is no portion left uncoated or blurred, apply the primer evenly.
- ◆ Prevent the primer coated surfaces from any contact with hand, brush hairs, dust, water drops, etc.
- ◆ The primer deposited on a surface other than the glass bonding surfaces should be immediately wiped away with a cloth soaked with white gasoline.
- 8. Apply 5 to 20 μ m (0.0002 to 0.0008 inch) thick coat of primer B to the non-ceramic coated portion on the outer circumference of the new glass.

• Primer B:

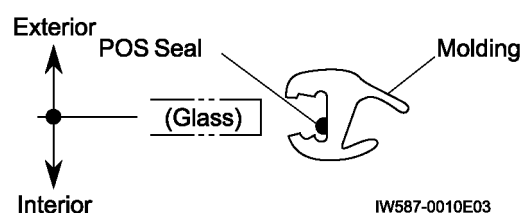
AR Primer for glass (black)
Cemedine Co., Ltd.



9. Let the primer B coated surfaces dry for more than 15 minutes.

[NOTICE]

- ◆ Apply the POS seal to the cab interior side of the molding, to a point inner than the center.
- 10. Apply the POS Seal (Cemedine product) to the glass fitting groove of the molding.



Engine Control Unit (ECU) (GR-350-2-00101, 00102)

Fault Code	J1939 SPN	J1939 FMI	Lamp Color	J1939 SPN Description	Cummins Description	QSB6.7 QSL9 QSX	QSB3.3 QSB4.5
					Crankshaft Sensors - Mechanical System Not Responding Properly or Out of Adjustment		
769	597	3	Amber	Not Available	Brake Switch Circuit - Voltage Above Normal, or Shorted to High Source		NA
771	597	4	Amber	Not Available	Brake Switch Circuit - Voltage Below Normal, or Shorted to Low Source		NA
778	723	2	Amber	Engine Speed Sensor #2	Engine Speed Sensor (Camshaft) Error – Data Erratic, Intermittent, or Incorrect		
779	703	11	Amber	Auxiliary Equipment Sensor Input	Warning Auxiliary Equipment Sensor Input # 3 (OEM Switch) - Root Cause Not Known		NA
951	166	2	None	Not Available	Cylinder Power Imbalance Between Cylinders - Data erratic, intermittent or incorrect		NA
952	524286	31	Amber	Not Available	Reserved for temporary use - Condition Exists		
953	524286	31	Amber	Not Available	Reserved for temporary use - Condition Exists		
1117	627	2	None	Power Supply	Power Lost With Ignition On - Data Erratic, Intermittent, or Incorrect		
1239	2623	3	Amber	Accelerator Pedal Position	Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Above Normal, or Shorted to High Source		
1241	2623	4	Amber	Not Available	Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Below Normal, or Shorted to Low Source		
1242	91	2	Red	Accelerator Pedal Position	Accelerator Pedal or Lever Position Sensor 1 and 2 - Data Erratic, Intermittent, or Incorrect		

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Full Version Available

Tadano GR-350XL-2 Rough Terrain Crane Service Manual

Tadano GR-350XL-2 rough terrain crane service manual with repair procedures, adjustments and troubleshooting for the main systems. Instant PDF download.

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