

Mitsubishi Hoist

Sales and Service

No.855-0210(E)

Notice of Improvement in Hoisting Brakes (for 5-ton class or less)

Thank you for selecting a Mitsubishi hoist and related units. This letter is to notify the improvement in our hoisting brakes.

1. Description of Improvement

Our hoisting brakes (5-ton class or less) are improved. For a detailed description of improvement, refer to the separate document.

2. Corresponding Models(Electric hoist)

R series, UR series, S series (3-ton class or less), U series (3-ton class or less) ... Partially improved
S series (5-ton class, 200/400 V), U series (5-ton class, 200 V only) ... Entirely improved

3. Schedule for Improvement

Standard products : Improvement will be carried out for the standard products manufactured in October 2005 or after.

Special products : Improvement will be carried out for the special product orders received on September 1, 2005 or after.

4. Reason for Improvement and Features of Improved Brakes

<R series, UR series, S series (3-ton class or less), U series (3-ton class or less)>

- To increase the maintainability, we have separated the friction part from the brake plate. On the rear bottom of the brake box, there is a friction part that comes in contact with the brake plate to cause friction. This friction part is separated from the brake plate, and the separated friction part is referred to as the braking plate. As a result, you can replace the braking plate without removing the brake gear. This means that you can replace the abraded braking plate without replacing the brake box. For the 1/2-ton class, however, the braking plate will not be installed because the brake gear system is not adopted for this class, and the brake box of this class can be easily replaced. In addition, the 1/2-ton class is too small to install the braking plate.
- The abrasion limit line is written on the pressure plate and braking plate so that you can easily judge whether the part should be replaced.
- Through the inspection window of the rubber cover, you can check the abrasion limit line and falling-off of the automatic adjustment ring.

<S series (5-ton class, 200/400 V), U series (5-ton class, 200 V only)>

For the 5-ton class, the AC brake is currently used as the hoisting brake, but this brake will be changed to the electric current type that is used for the 2.8-ton class. This class has only one brake plate, and the separation system is adopted for the braking face of the brake box.

The dimensions, etc. are written in the general catalog (prepared in August 2005) of Mitsubishi hoist. Please also refer to this catalog.

Note: For the low-speed type (1/2 speed), 2-speed type (pole change), crawling-speed type, the AC brake will be adopted as in the past. For the U series (5-ton class, 400 V), the AC brake will be also adopted as in the past.

5. Remarks

For the S series (1/2-ton to 3-ton class), R series, and UR series, the model numbers (improvement numbers) will not be subject to change. Check the production number to check whether the brake is the old type or the new type. (The model code will be subject to change.)

Subject	Notice of Improvement in Hoisting Brakes (for 5-ton class or less)	Date of issue	September 26, 2005	Notified to
		Mitsubishi Electric Hoist Corporation 1-1-1 Imajuku-Higashi, Nishi-ku, Fukuoka 819-0192 TEL 092-805-3400		Sales agent

Compatibility of new brake parts

Mitsubishi hoist Model		S(U)-1/2-② R(UR)-1-③		S(U)-1-② R(UR)-2-③		S(U)-2-② R(UR)-2.8-②		S(U)-2.8-③	
		Existing	New	Existing	New	Existing	New	Existing	New
Brake box	Drawing No.	P277956-1		P278257-2	P284404H10	P277960-1	P284405H10	P278157-1	P284406H10
	Part No.	03J141		03J143	Unregistered	03J142	Unregistered	03H12S	Unregistered
Braking plate	Drawing No.	-	-	-	P284408H10	-	P284409H10	-	P284409H10
	Part No.	-	-	-	Unregistered	-	Unregistered	-	Unregistered
Pressure plate	Drawing No.	P271464-2	P284429H10	P244977-3	P284430H10	P272636H11	P284431H11	P272636H11	P284431H11
	Part No.	03H11B	Unregistered	03H11E	Unregistered	03H11F	Unregistered	03H11F	Unregistered

Compatibility when replacing existing lifting brake part with new lifting brake part:

[1/2-ton class of S (U) series, 1-ton class of R (UR) series]

Compatibility is ensured for both the brake box and the pressure plate. For the braking plate, however, compatibility is not ensured.

[1-ton to 3-ton classes of S (U) series, 2-ton to 2.8-ton classes of R (UR) series]

Existing New

Brake box → Brake box + Braking plate (Compatibility is ensured.)

For the pressure plate, compatibility is ensured.

Note: If you order a brake box, we will provide the brake box and the braking plate as a set.

However, if you order a braking plate, we can provide a braking plate only.

For the new brake box, the braking face can be separated from the brake box main body.

Since the brake box can be separated into 2 pieces, the braking plate only can be replaced without replacing the brake box. Maintainability is increased.

[5-ton class of S (U) series]

In place of the existing AC brake, the electric current type brake is adopted just like the 2.8-ton class. Compatibility is not ensured for a set of brake parts (including the rotor assembly).

Only one brake plate is adopted, and the braking face separation method is adopted just like the 2.8-ton class.

