

### Purpose

To define the Load Limiter Kits for ER2 hoists.

### Background

Some customers want the hoist to be limited to lifting loads equal to or less than the rated capacity. The ER2 load limiter kit makes this possible. Without the load limiter kit the hoist would be exposed to damage by lifting loads greater than the rated capacity of the hoist.

### Load Limiter Description

The load limiter is an optional device that reduces the possibility of making potentially hazardous, greater than rated load lifts. The load limiter is preset at 115% of the hoists rated capacity and can be preset to a custom percentage of the hoists rated capacity. The device protects the hoist from being damaged by lifting loads greater than the rated capacity of the hoist. With the load limiter installed, overloading the hoist will electro-mechanically activate a switch making the hoist inoperable in the up (lifting) direction. However, the hoist would be functional in the down (lowering) direction to allow the load to be lowered.

### How a Load Limiter Works

A load limiter is an electro-mechanical device comprised of Bellville Washers, Shaft, Adjuster, and a Micro-switch. As the load is increased the shaft compresses the Bellville Washers to the point the adjuster activates the micro-switch. When the micro-switch is activated, the lifting contactor control circuit is opened, stopping the hoist from further lifting.

### Load Limiter Kit

The kit part numbers, headroom increase and weight addition are listed by hoist product code in the following table (P: Parallel Suspension).

Note: Load Limiter Kits are not available for 020C and 020CD hoists.

Single Speed Hoists					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
001H	ER2001H	7008639	ES1001003 YL2BS1108 YL2GHM03S1A1 YL2BH1201	4.32	21.5
	ER2P001H	7008611	YL2BS1108 YL2GHM03S1A1 YL2BH1201	2.05	
	ER2G001H				
	ER2M001H-L/S/SD	7008601	YL2BS1102 YL2GHM03S1A1 YL2BH1201	0.68 2.05 (P)	22.5 21.5 (P)
003S	ER2003S	7008640	ES1001003 YL2BS1108 YL2GHM03S1A1 YL2BS1201	4.32	21.5
	ER2P003S	7008612	YL2BS1108 YL2GHM03S1A1 YL2BS1201	2.05	
	ER2G003S				
003S	ER2M003S-L/S/SD	7008602	YL2BS1102 YL2GHM03S1A1 YL2BS1201	0.68 2.05 (P)	22.5 21.5 (P)

Single Speed Hoists – continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
003H	ER2003H	7008641	ES1001003 YL2CS1108 YL2GHM03S1A1 YL2CH1201	4.32	21.5
	ER2P003H	7008613	YL2CS1108 YL2GHM03S1A1 YL2CH1201	2.05	
	ER2G003H				
	ER2M003H-L/S/SD	7008603	YL2DS1102 YL2GHM03S1A1 YL2CH1201	0.68 2.05 (P)	22.5 21.5 (P)
005L 005S	ER2005L	7008642	ES1001003 YL2CS1108 YL2GHM03S1A1 YL2CS1201	4.33	21.5
	ER2005S				
	ER2P005L	7008614	YL2CS1108 YL2GHM03S1A1 YL2CS1201	1.97	
	ER2P005S				
	ER2G005L				
	ER2G005S				
	ER2M005L-L/S/SD	7008604	YL2DS1102 YL2GHM03S1A1 YL2CS1201	0.98 1.97 (P)	22.5 21.5 (P)
	ER2M005S-L/S/SD			0.98 1.97 (P)	22.5 21.5 (P)

Single Speed Hoists – continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
010L 010S	ER2010L	7008643	ES1001010L YL2CS1108 YL2GHM03S1A1 YL2DS1201	4.13	21.5
	ER2010S				
	ER2P010L	7008615	YL2CS1108 YL2GHM03S1A1 YL2DS1201	2.17	
	ER2P010S				
	ER2G010L				
	ER2G010S				
	ER2M010L-L/S/SD	7008605	YL2DS1102 YL2GHM03S1A1 YL2DS1201	0.59	22.5
				2.17 (P)	21.5 (P)
				0.59	22.5
				2.17 (P)	21.5 (P)
015S	ER2015S	7008644	ES1001015 YL2ES1108 YL2GHM03S1A1 YL2EM1201	6.50	31.7
	ER2P015S	7008616	YL2ES1108 YL2GHM03S1A1 YL2EM1201	3.15	
	ER2G015S				
	ER2M015S-L/S/SD	7008606	YL2ES1102 YL2GHM03S1A1 YL2EM1201	3.15	35.2
				3.15 (P)	31.7 (P)

Single Speed Hoists – continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
020L 020S	ER2020L	7008645	ES1001025 YL2ES1108	7.09	31.7
	ER2020S		YL2GHM03S1A1 YL2ES1201		
020L 020S *	ER2P020L	7008617	YL2ES1108	3.15	31.7
	ER2P020S		YL2GHM03S1A1		
	ER2G020L		YL2ES1201		
	ER2G020S				
	ER2M020L-L/S/SD	7008607	YL2ES1102	3.15	35.2
	ER2M020S-L/S/SD		YL2GHM03S1A1 YL2ES1201	3.15 (P)	31.7 (P)
			3.15	35.2	
			3.15 (P)	31.7 (P)	
025S	ER2025S	7008646	ES1001025 YL2FS1108 YL2GHM03S1A1 YL2FS1201	4.13	29.5
	ER2P025S	7008618	YL2FS1108	0.79	
	ER2G025S		YL2GHM03S1A1 YL2FS1201		
	ER2M025S-L/S/SD	7008608	YL2FS1102 YL2GHM03S1A1 YL2FS1201	1.38	34.6
				0.79 (P)	29.5 (P)

\*Load Limiter is not available for 020C.

Single Speed Hoists – continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
030C	ER2030C	7008609	(Suspension Assembly Not Required) YL2GHM03S1A1 YL2ER1201	-	9.8
	ER2P030C				
	ER2G030C				
	ER2M030C-L/S/SD				
050L	ER2050L	7008610	(Suspension Assembly Not Required) YL2GHM03S1A1 YL2FR1201	-	
	ER2P050L				
	ER2G050L				
	ER2M050L-L/S/SD				

Dual Speed Hoists					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
001HD	ER2001HD	7008647	ES1001003 YL2BS1108 YL2BHE0311A1 YL2BH1201	4.32	21.5
	ER2P001HD	7008631	YL2BS1108 YL2BHE0311A1	2.05	
	ER2G001HD		YL2BH1201		
	ER2M001HD-L/S/SD	7008621	YL2BS1102 YL2BHE0311A1 YL2BH1201	0.68 2.05 (P)	22.5 21.5 (P)
003SD	ER2003SD	7008648	ES1001003 YL2BS1108 YL2BHE0311A1 YL2BS1201	4.32	21.5
	ER2P003SD	7008632	YL2BS1108 YL2BHE0311A1	2.05	
	ER2G003SD		YL2BS1201		
	ER2M003SD-L/S/SD	7008622	YL2BS1102 YL2BHE0311A1 YL2BS1201	0.68 2.05 (P)	22.5 21.5 (P)

Dual Speed Hoists– continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
003HD	ER2003HD	7008649	ES1001003 YL2CS1108 YL2BHE0311A1 YL2CH1201	4.32	21.5
	ER2P003HD	7008633	YL2CS1108 YL2BHE0311A1	2.05	
	ER2G003HD		YL2CH1201		
	ER2M003HD-L/S/SD	7008623	YL2DS1102 YL2BHE0311A1	0.68	22.5
			YL2CH1201	2.05 (P)	21.5 (P)
005LD 005SD	ER2005LD	7008650	ES1001003 YL2CS1108 YL2BHE0311A1	4.33	21.5
	ER2005SD		YL2CS1201		
	ER2P005LD	7008634	YL2CS1108 YL2BHE0311A1	1.97	
	ER2P005SD		YL2CS1201		
	ER2G005LD				
	ER2G005SD				
	ER2M005LD-L/S/SD	7008624	YL2DS1102 YL2BHE0311A1	0.98	22.5
			YL2CH1201	1.97 (P)	21.5 (P)
			YL2CS1201	0.98	22.5
ER2M005SD-L/S/SD			1.97 (P)	21.5 (P)	



Dual Speed Hoists– continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
010LD 010SD	ER2010LD	7008651	ES1001010L YL2CS1108 YL2BHE0311A1	4.13	21.5
	ER2010SD		YL2DS1201		
	ER2P010LD	7008635	YL2CS1108 YL2BHE0311A1	2.17	
	ER2P010SD		YL2DS1201		
	ER2G010LD				
	ER2G010SD				
	ER2M010LD-L/S/SD	7008625	YL2DS1102 YL2BHE0311A1	0.59	22.5
	ER2M010SD-L/S/SD		YL2DS1201	2.17 (P)	21.5 (P)
015SD	ER2015SD	7008652	ES1001015 YL2ES1108 YL2BHE0311A1	6.50	31.7
	ER2P015SD	7008636	YL2ES1108 YL2BHE0311A1	3.15	
	ER2G015SD		YL2EM1201		
	ER2M015SD-L/S/SD	7008626	YL2ES1102 YL2BHE0311A1	3.15	35.2
			YL2EM1201	3.15 (P)	31.7 (P)

Dual Speed Hoists– continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
020LD 020SD *	ER2020LD	7008653	ES1001025 YL2ES1108	7.09	31.7
	ER2020SD		YL2BHE0311A1 YL2ES1201		
	ER2P020LD	7008637	YL2ES1108	3.15	
	ER2P020SD		YL2BHE0311A1	3.15	
	ER2G020LD		YL2ES1201		
	ER2G020SD	7008627	YL2ES1102	3.15	
	ER2M020LD-L/S/SD		YL2BHE0311A1	3.15 (P)	31.7 (P)
	ER2M020SD-L/S/SD		YL2ES1201	3.15	35.2
					3.15 (P)
	025SD	ER2025SD	7008654	ES1001025 YL2FS1108 YL2BHE0311A1 YL2FS1201	4.13
ER2P025SD		7008638	YL2FS1108	0.79	
ER2G025SD			YL2BHE0311A1 YL2FS1201		
025SD	ER2M025SD-L/S/SD	7008628	YL2FS1102	1.38	34.6
			YL2BHE0311A1 YL2FS1201	0.79 (P)	29.5 (P)

\*Load Limiter is not available for 020CD.

Dual Speed Hoists– continued					
Capacity Code	Hoist Product Code	Harrington Kit Number	Kit Components	Headroom Increase (in)	Weight Increase (lbs)
030CD	ER2030CD	7008629	(Suspension Assembly Not Required) YL2BHE0311A1 YL2ER1201	-	9.8
	ER2P030CD				
	ER2G030CD				
	ER2M030CD-L/S/SD				
050LD	ER2050LD	7008630	(Suspension Assembly Not Required) YL2BHE0311A1 YL2FR1201	-	
	ER2P050LD				
	ER2G050LD				
	ER2M050LD-L/S/SD				