



Lamp Charts &
Wiring Diagrams

LAMP CHART 4 PIN LAMPS ONLY

LAMPS

WORKHORSE

WHAM

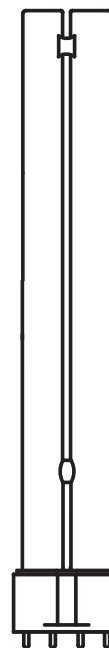
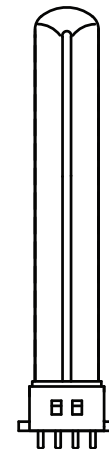
LONGHORSE

WH 1	WH 2	WH 22	WH 3	WH 33	WH 4	WH 5	WH 6	WH 7	WH 8	WM 1	WM 2	LH 1	LH 2	LH 3	LH 4	LH 5	LH 6
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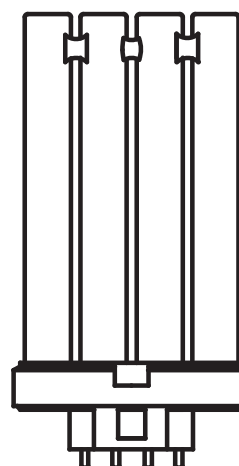
TWIN																	
1 X 5W	3	2			2					15	2	3	2		2		
2 X 5W		1	1		1			9					1		1		9
3 X 5W								8									8
4 X 5W					7		7	7								7	7
1 X 7W	3	2								15	2	3	2				
2 X 7W		1			1			9			1		1		1		9
3 X 7W								8									8
4 X 7W								7									7
1 X 9W	3	2								15	2	3	2				
2 X 9W		1			1						1		1		1		
3 X 9W								8									8
4 X 9W								7									7
1 X 11W	3									15	2	3					
2 X 11W		1			1						1		1		1		
3 X 11W								8									8
4 X 11W								7									7
1 X 13W		3	2	2		2		14			3		3	2	2		14
2 X 13W			1	1	9		9	11						1		9	11
3 X 13W					8		8									8	
4 X 13W					7		7									7	
1 X 18W		3	2	2	14	2		14			3		3	2	2		14
2 X 18W			1	1	9		9	9						1		9	9
3 X 18W					8		8									8	
4 X 18W							7									7	
1 X 24W		3	2	2	14	3	14	14			3		3	2	3	14	14
2 X 24W				1	9		9	11						1		9	11
3 X 24W							8									8	
1 X 27W		3	2	2	14	3	14	14			3		3	2	3	14	14
2 X 27W					9		9	11								9	11
4 X 27W								7									
1 X 28W PA			3	3	14		14	10						3		14	10
2 X 28W PA					11		11									11	
3 X 28W PA								8									
4 X 28W PA								7									
1 X 36/39W		2	2	14	3	14	10							2	3	14	10
2 X 36/39W						9	11		22							9	11
3 X 36/39W								8	25								
4 X 36/39W								7	27								
5 X 36/39W									28								
6 X 36/39W									29								
1 X 40W			2	14	2		14							2	2		14
2 X 40W						9	11									9	11
3 X 40W						8			25							8	
4 X 40W								7	27								
5 X 40W									28								
1 X 50W			3	14	3	14	10							3	3	14	10
2 X 50W						11	11		22							11	11
3 X 50W								8	25								
4 X 50W								7	27								
1 X 55W			3	10		10	12	16						3		10	12
2 X 55W						11		9								11	
3 X 55W								8	26								
1 X 55WPA				10		12	13	14								12	13
2 X 55WPA								11	23								
3 X 55WPA									26								
1 X 96W						12		14	17							12	
2 X 96W								11	24								

FLAT QUAD																	
1 X 18W	3	2	2	14	3	14	14			3		3	2	3	14	14	
2 X 18W				9		9	11								9	11	
3 X 18W						8										8	
3 X 18W PA																	
4 X 18W PA								7									
1 X 24W	3	2	2	14	3		14			3		3	2	3		14	
2 X 24W			1	9		9	11						1		9	11	
3 X 24W						8										8	
1 X 28W PA			3	10		10	13						3		10	13	
2 X 28W PA								9									

TWIN

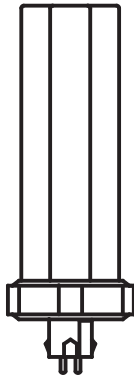


FLAT QUAD

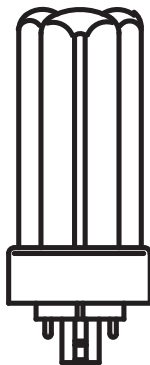


LAMP CHART 4 PIN LAMPS ONLY

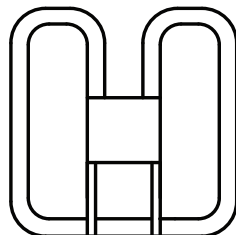
QUAD



TRIPLE



2-D



LAMPS

WORKHORSE

WHAM

LONGHORSE

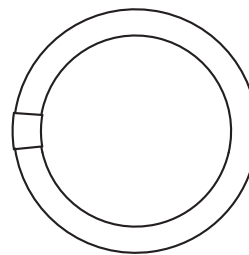
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------	------	-------	------	-------	------	------	------	------	------	------	------	------	------	------	------	------	------

1 X 36W			2	14	3	14	10							2	3	14	10
2 X 36W				9		9	11									9	11
3 X 36W									25								
4 X 36W								7									
1 X 55W PA				10		12	13	14								12	13
2 X 55W PA								11									
1 X 96W PA						12		14								12	
2 X 96W PA								11									
QUAD																	
1 X 10W	3	2			2					15	2	3	2		2		
2 X 10W		1	1		1		9						1		1		9
3 X 10W							8										8
4 X 10W				7			7										7
1 X 13W	3	2								15	2	3	2				
2 X 13W		1			1						1		1		1		
3 X 13W							8										8
4 X 13W							7										7
1 X 18W	3	2			2					15	2	3	2		2		
2 X 18W				1	1		9							1	1		9
3 X 18W				8		8	8									8	8
4 X 18W						7										7	
1 X 26W		3	2	2	14	3		14			3		3	2	3		14
2 X 26W				1	9		9	11						1		9	11
3 X 26W							8									8	
4 X 26W							7									7	
1 X 27W PA				10		10	13	14								10	13
2 X 27W PA								9									
TRIPLE																	
1 X 13W	3	2								15	2	3	2				
2 X 13W		1			1						1		1		1		
3 X 13W							8										8
4 X 13W							7										7
1 X 18W	3	2			2					15	2	3	2		2		
2 X 18W				1			9							1			9
3 X 18W				8			8										8
4 X 18W						7										7	
1 X 26W		3	2	2	14	3		14			3		3	2	3		14
2 X 26W					9		9	11								9	11
3 X 26W							8									8	
4 X 26W							7									7	
1 X 32W		3	2	2	14	3	14	14				3	2	3		14	14
2 X 32W					9		9	11								9	11
3 X 32W							8									8	
1 X 42W				2	14	3	14	14						2	3	14	14
2 X 42W							9	11								9	11
3 X 42W							8									8	
2-D																	
1 X 10W	3	2								15	2	3	2				
2 X 10W		1			1		9				1		1		1		9
3 X 10W							8										8
4 X 10W							7										7
1 X 16W	3	2			2					15	2	3	2		2		
2 X 16W			1				9										9
3 X 16W							8										8
4 X 16W					7		7	7								7	7
1 X 21W		2			2							2		2			
2 X 21W				1			9							1			9
3 X 21W				8		8	8									8	8
4 X 21W						7										7	
1 X 28W		3	2	2		2		14			3		3	2	2		14
2 X 28W				1	9		9	11						1		9	11
3 X 28W							8									8	
4 X 28W							7									7	
1 X 38W				2	14	3	14	14						2	3	14	14
2 X 38W							9	11								9	11
4 X 38W								7									
1 X 55W					12		12		14								12
2 X 55W									11								

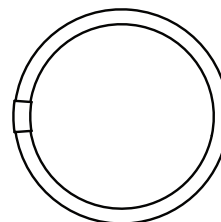
LAMP CHART

LAMPS	WORKHORSE										WHAM		LONGHORSE					
	WH 1	WH 2	WH 22	WH 3	WH 33	WH 4	WH 5	WH 6	WH 7	WH 8	WM 1	WM 2	LH 1	LH 2	LH 3	LH 4	LH 5	LH 6
CIRCLINE																		
1 X 20W		3	2	2	14	3	14	14				3		3	2	3	14	14
2 X 20W					9		9	11									9	11
4 X 20W									7									
1 X 22W		3	2	2	14	3	14	14				3		3	2	3	14	14
2 X 22W					9		9	11									9	11
4 X 22W									7									
1 X 32W			3	3	14		14	10							3		14	10
2 X 32W					11		11										11	
3 X 32W									8									
4 X 32W									7									
1 X 40W				2	14	3	14	10							2	3	14	10
2 X 40W							9	11									9	11
4 X 40W									7									
1 X 22+32				1			9	11							1		9	11
1 X 32+40							11										11	
T5 CIRCLINE																		
1 X 22W		3	2	2	14	3		14				3		3	2	3		14
2 X 22W					9		9	11									9	11
3 X 22W					8		8										8	
1 X 40W				2	14	3	14	14							2	3	14	14
2 X 40W							9	11									9	11
1 X 55W OS				3	10			12							3			12
2 X 55W OS							11		9								11	
1 X 22+40				1			9	11							1		9	11
T2 LINEAR																		
1 X F6	2												2					
2 X F6	1												1					
1 X F8	2												2					
2 X F8	1												1					
1 X F11	2												2					
2 X F11	1												1					
1 X F13	2												2					
2 X F13	1												1					
T5 LINEAR																		
1 X F4	3	2									15	2	3	2				
2 X F4		1			1							1		1		1		
3 X F4								8										8
4 X F4								7										7
1 X F6	3	2									15	2	3	2				
2 X F6		1			1							1		1		1		
3 X F6								8										8
4 X F6								7										7
1 X F8	2	2									15	2	2	2				
2 X F8		1			1							1		1		1		
4 X F8								7										7
1 X F13	3	2									15	2	3	2				
2 X F13		1			1							1		1		1		
3 X F13								8										8
4 X F13								7										7
1 X F14	3	2									15	2	3	2				
2 X F14		1			1							1		1		1		
3 X F14								8										8
4 X F14								7										7
1 X F21	3	2									15	2	3	2				
2 X F21		1			1									1		1		
3 X F21								8										8
4 X F21								7										7
1 X F28	3	2									15	2	3	2				
2 X F28					1											1		
3 X F28								8										8
4 X F28								7										7
1 X F35		2									15		2					
2 X F35					1									2		1		
3 X F35								8										8
4 X F35								7										7
T5 HO																		
1 X F24 HO		3	2	2	14	3		14						3	2	3		14
2 X F24 HO				1	9		9	11							1		9	11
3 X F24 HO							8										8	

CIRCLINE



T5 CIRCLINE

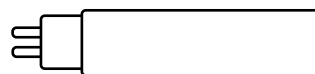


T2 LINEAR



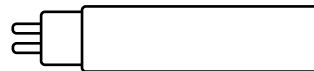
1/4" DIA

T5 LINEAR



5/8" DIA

T5 HO



5/8" DIA

LAMP CHART



T6 LINEAR

3/4" DIA

LAMP CHART

LAMPS	WORKHORSE										WHAM		LONGHORSE					
	WH 1	WH 2	WH 22	WH 3	WH 33	WH 4	WH 5	WH 6	WH 7	WH 8	WM 1	WM 2	LH 1	LH 2	LH 3	LH 4	LH 5	LH 6
3 X F40							8										8	
1 X F58								10										10
2 X F58							11			22							11	
3 X F58									8									
1 X F70								10										10
2 X F70							11			22							11	
1 X F72						2										2		
2 X F72						1		9								1		9
3 X F72								8										8
4 X F72								7										7
T8 HO																		
1 X F48 HO				3	14		14	10							3		14	10
2 X F48 HO							11			22							11	
3 X F48 HO									8	25								
4 X F48 HO									7	27								
1 X F60 HO				3	14		14	10							3		14	10
2 X F60 HO							11			22							11	
3 X F60 HO									8	25								
4 X F60 HO									7	27								
1 X F72 HO				3	14		14	10							3		14	10
2 X F72 HO										22								
3 X F72 HO							11		8	25							11	
T10 LINEAR																		
1 X F40				3	14	3	14	10							3	3	14	10
2 X F40							11	11		22							11	11
3 X F40									8	25								
4 X F40									7	27								
5 X F40										28								
T10 VHO																		
1 X F48 VHO									12	19								
1 X F60 VHO									12	19								
1 X F72 VHO									12	19								
1 X F96 VHO									12	19								
T12 LINEAR																		
1 X F14		3	2	2	14	3	14	10				3		3	2	3	14	10
2 X F14					9		9	11									9	11
3 X F14										25								
4 X F14									7	27								
5 X F14										28								
6 X F14										29								
1 X F15		3	2	2		3		14				3		3	2	3		14
2 X F15				1	9		9	11							1		9	11
3 X F15					8		8										8	
4 X F15							7			27							7	
5 X F15										28								
6 X F15										29								
1 X F20		3	2	2	14	3	14	14				3		3	2	3	14	14
2 X F20					9		9	11									9	11
3 X F20										25								
4 X F20									7	27								
5 X F20										28								
6 X F20										29								
1 X F24			3		14	3	14	10				3				3	14	10
2 X F24					11		11	11		22							11	11
3 X F24									8	25								
4 X F24									7	27								
5 X F24										28								
1 X F25			3	3	14		14	10							3		14	10
2 X F25					11		11			22							11	
3 X F25									8	25								
4 X F25									7	27								
1 X F30				3	3	14	3	14	10						3	3	14	10
2 X F30					11		11	11		22							11	11
3 X F30									8	25								
4 X F30									7	27								
5 X F30										28								
1 X F36				3	14	3	14	10							3	3	14	10
2 X F36					11		11	11		22							11	11
3 X F36									8	25								
4 X F36									7	27								

T8 HO



1" DIA

T10 LINEAR



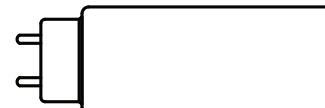
1 1/4" DIA

T10 VHO



1 1/4" DIA

T12 LINEAR



1 1/2" DIA

LAMP CHART

LAMPS

WORKHORSE

WHAM

LONGHORSE

WH 1	WH 2	WH 22	WH 3	WH 33	WH 4	WH 5	WH 6	WH 7	WH 8	WM 1	WM 2	LH 1	LH 2	LH 3	LH 4	LH 5	LH 6
------	------	-------	------	-------	------	------	------	------	------	------	------	------	------	------	------	------	------

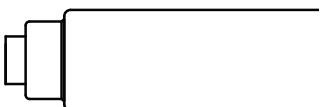
5 X F36									28								
1 X F40			3	14	3	14	10							3	3	14	10
2 X F40						11	11		22							11	11
3 X F40								8	25								
4 X F40								7	27								
5 X F40									28								
1 X F42			3	14	3	14	10							3	3	14	10
2 X F42						11	11		22							11	11
3 X F42								8	25								
4 X F42								7	27								
5 X F42									28								
1 X F48			3	1	3	14	10							3	3	14	10
2 X F48						11	11		22							11	11
3 X F48								8	25								
4 X F48								7	27								
5 X F48									28								
1 X F60			2	14	3	14	10							2	3	14	10
2 X F60						11	11		22							11	11
3 X F60								8	25								
4 X F60								7	27								
1 X F64			2	14	3	14	10							2	3	14	10
2 X F64						11	11		22							11	11
3 X F64								8	25								
4 X F64									27								
1 X F72			2	14	3	14	10							2	3	14	10
2 X F72						11	11		22							11	11
3 X F72								8	25								
4 X F72									27								
1 X F84			2		3	14	10							2	3	14	10
2 X F84						11	11		22							11	11
3 X F84								8	25								
1 X F96						14	10									14	10
2 X F96						9	11		22							9	11
3 X F96								8									
T12 HO																	
1 X F18 HO				12		12	13	14								12	13
2 X F18 HO								11	23								
3 X F18 HO									26								
1 X F24 HO				12		12	13	14								12	13
2 X F24 HO								11	23								
3 X F24 HO									26								
1 X F30 HO				12		12	13	14								12	13
2 X F30 HO								11	23								
3 X F30 HO									26								
1 X F36 HO				12		12	13	14								12	13
2 X F36 HO								11	23								
3 X F36 HO									26								
1 X F42 HO				12		12	13	14								12	13
2 X F42 HO								11	23								
3 X F42 HO									26								
1 X F48 HO				12		12	13	14								12	13
2 X F48 HO								11	23								
3 X F48 HO									26								
1 X F60 HO						12	13	14								12	13
2 X F60 HO								11	23								
3 X F60 HO									26								
1 X F64 HO						12	13	14								12	13
2 X F64 HO								11	23								
1 X F72 HO						12	13	14								12	13
2 X F72 HO								11	23								
1 X F84 HO						12	13	14								12	13
2 X F84 HO								11	23								
1 X F96 HO						12	13	14								12	13
2 X F96 HO								11	23								
T12 VHO																	
1 X F48 VHO								12	19								
1 X F60 VHO								12	19								
1 X F72 VHO								12	19								
1 X F96 VHO								12	19								

T12 HO



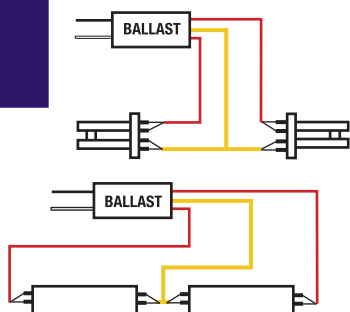
1 1/2" DIA

T12 VHO

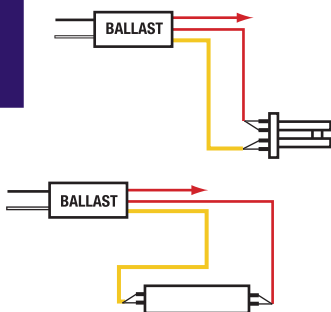


WIRING DIAGRAMS for
WORKHORSE, WHAM and LONGHORSE
www.fulham.com 1.800.2.fulham

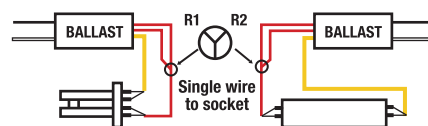
1



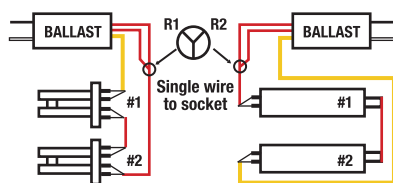
2



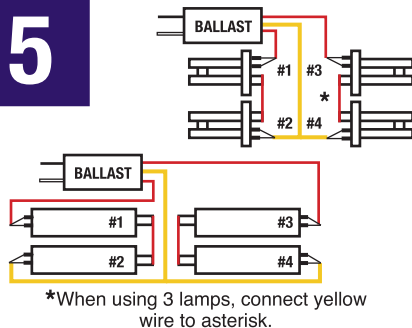
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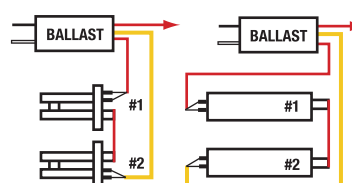
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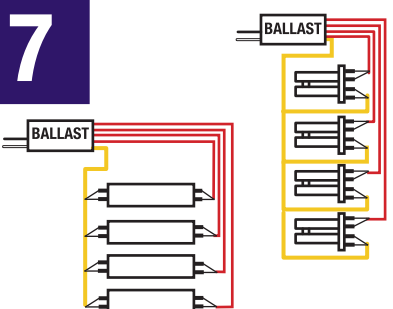
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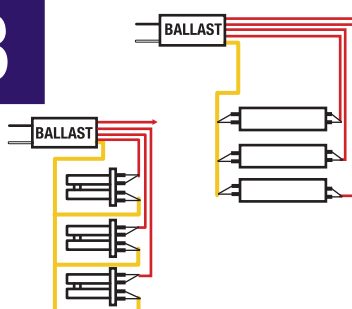
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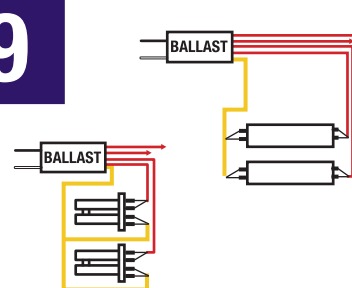
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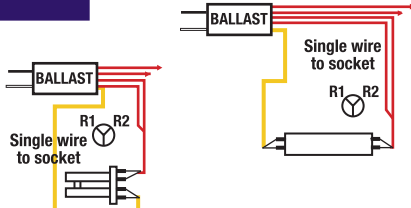
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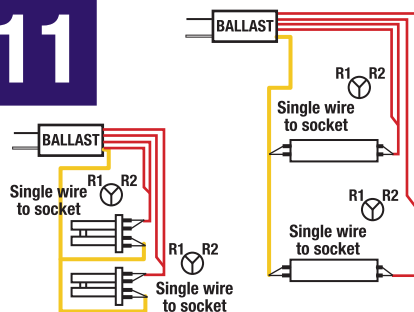
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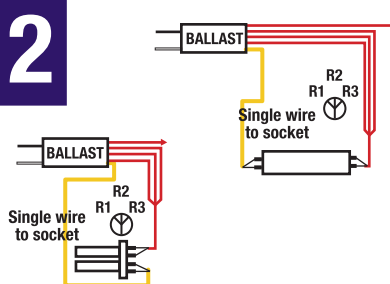
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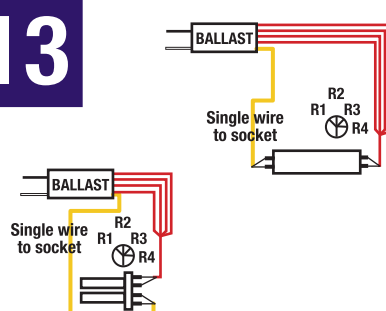
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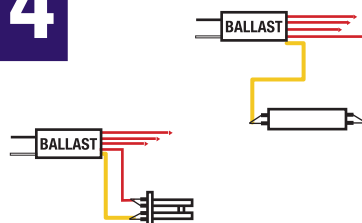
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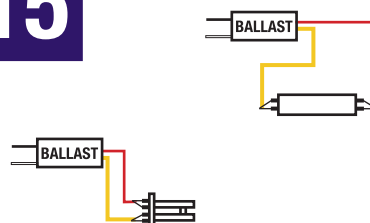
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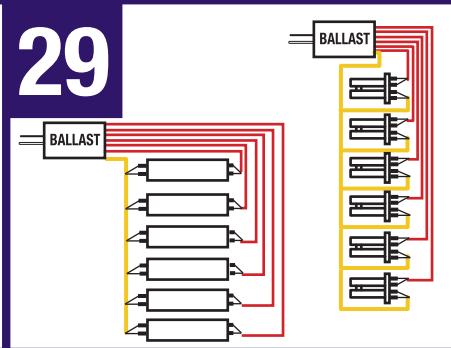
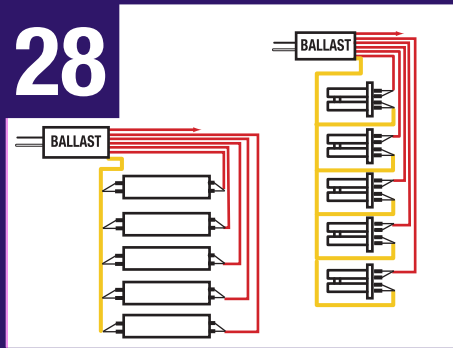
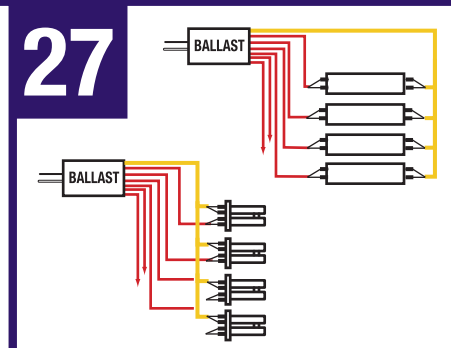
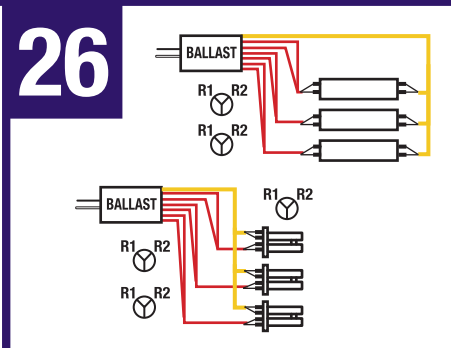
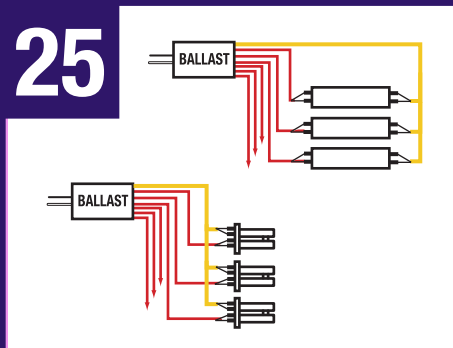
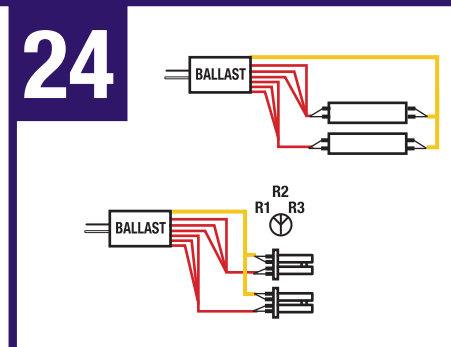
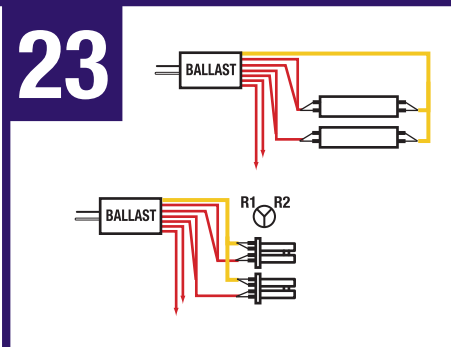
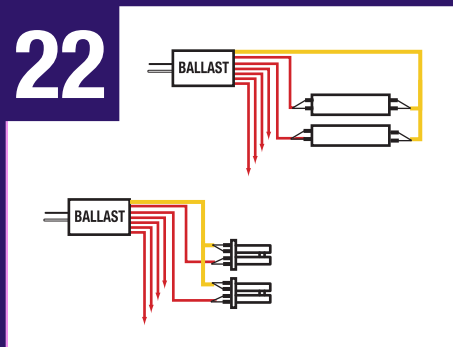
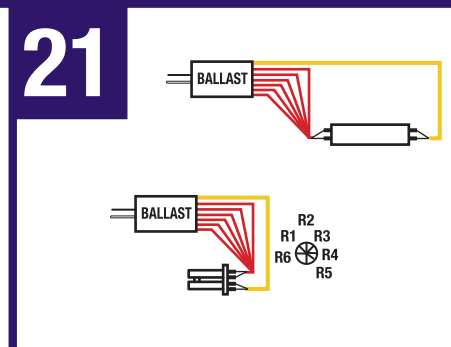
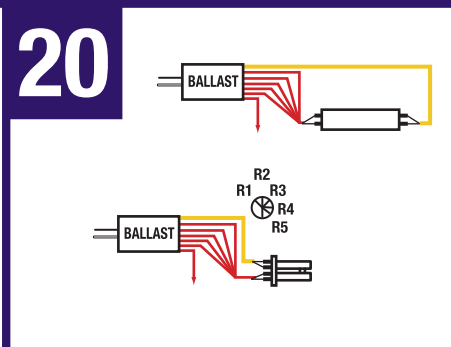
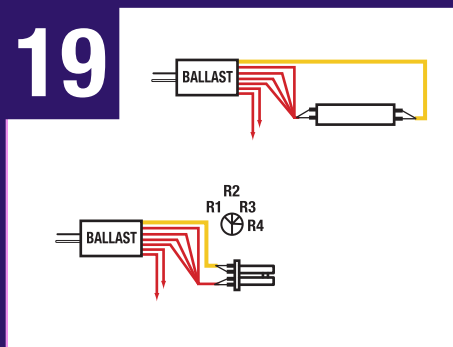
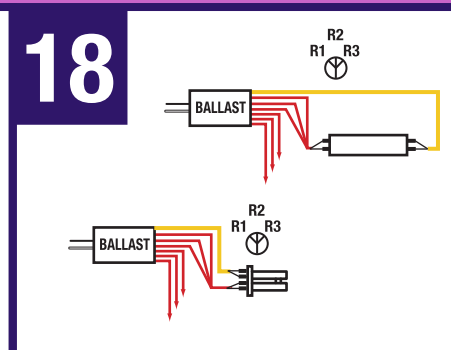
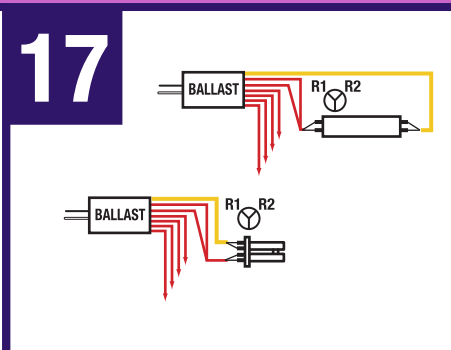
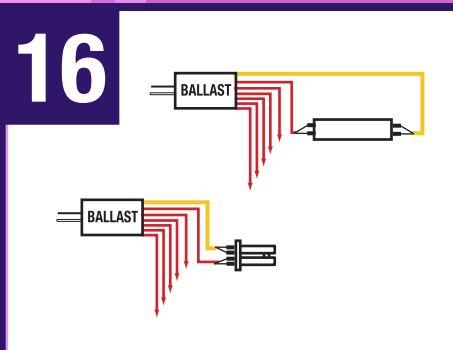
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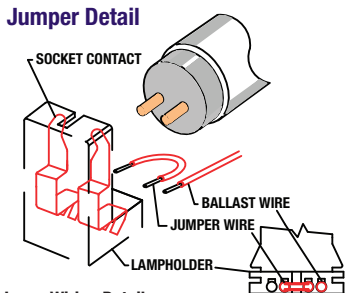
OPERATION & INSTALLATION TIPS

1. Connect both pin sets of the socket before connecting "RED" & "YELLOW" wires.
2. Ground case in accordance with the "National Electric Code."
3. With Linear lamps, use a starting aid.
4. Ballast case temperature can not exceed 70°C.
5. Remote mounting distance varies with lamp type. Contact customer service.
6. Ballast can not be used with dimmer switch but can be used with Occupancy Sensor.
(Note: Sensor will shorten lamp life.)

7. Cap and insulate any unused red power wire.
8. When connecting two red power wires, they must be joined to make one wire before attaching to the socket.
9. BLS (Back Leads with Studs) Dimensions:
Stud Length: 5/8", Stud Size: 8/32, Center to Center: 2"
10. Running lamps in series will reduce the turn-on cycles of both lamps.
(Configuration diagrams 4, 5, 6)



Wiring Jumper Detail



For other Lamp Wiring Details
call 1.800.2.FULHAM