REFERENCE	: KIRLOSKAR,BLISS 125	5 kVA
Edition	:	(B) ADJUSTMENT OF PUMP AND GOVERNOR
Replaces (edition)	:	GUIDE SLEEVE TRAVEL
Test Oil	:	Control lever position :
		Speed - min <sup>-1</sup> (rpm) :
Combination No	: E C006 RL 00 008	Control rack travel in mm
Injection Pump	:	
Governor	:	1. MAXIMUM SPEED CONTROL (RATED SPEED)
		(without supplementry idling spring)
Customer	: Kirloskar Electric Company L	td Control position :
Engine Model	: KEC BLISS	
Engine Code	:	Speed - min <sup>-1</sup> (rpm) : 750
Application	: 125 kVA	Control rack travel in mm : 12.0
TEST BENCH REQUIREMENTS	<u></u> 5	
		Speed - min <sup>-1</sup> (rpm) : 760-775
Test Oil Inlet Temperature	: 38° - 42° <i>C</i>	Control rack travel in mm : 11.0
Overflow valve	:	
Inlet Pressure in bar	: 1.5	Speed - min <sup>-1</sup> (rpm) : 790-800
Test Injector	:	Control rack travel in mm : 4.0
Opening Pressure in bar	: 172 - 176	
High pressure pipe	: 6 X 2 X 600	Speed - min <sup>-1</sup> (rpm) : 930
(OD X ID X length) in mm		Control rack travel in mm : 0.3-1.7
(A) CALTER ATTOM OF SUM	WITHOUT COVERNOR ACTION	2.FULL LOAD DELIVERY
(A) CALIBRATION OF PUMP	WITHOUT GOVERNOR ACTION	Speed - min <sup>-1</sup> (rpm) : 750
Direction of rotation	: Cockwise	Boost pressure in bar :
Prestroke in mm	: 3.42 - 3.50	Control rack travel in mm : 12
Control rack position in mm	:	Delivery quantity (x) : 73.5-74.5
Cam sequence	: 1-5-3-6-2-4	In cm³ / 500 strokes
ouri sequence		Maximum spread in cm <sup>3</sup> ( $\Delta$ ) : - 1.5(3.5)
•	;	
•	:	Speed - min <sup>-1</sup> (rpm) : -
Cam displacement	: :	
Cam displacement Tappet clearance in mm	: :	Speed - min <sup>-1</sup> (rpm) : -
Cam displacement Tappet clearance in mm	: :	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -
Cam displacement Tappet clearance in mm  BASIC SETTING	: : : 750	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -
Cam displacement	: : 750 : 12.0	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (×) : -
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm		Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm <sup>3</sup> / 500 strokes
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm)  Control rack travel in mm  Delivery quantity (x)	: 12.0	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm <sup>3</sup> / 500 strokes
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm)  Control rack travel in mm  Delivery quantity (*) In cm <sup>3</sup> / 100 strokes	: 12.0	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (×) : -  In cm <sup>3</sup> / 500 strokes  Maximum spread in cm <sup>3</sup> ( $\Delta$ ) : -
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm)  Control rack travel in mm  Delivery quantity (*) In cm <sup>3</sup> / 100 strokes	: 12.0 : 14.5 - 15.5	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (×) : -  In cm <sup>3</sup> / 500 strokes  Maximum spread in cm <sup>3</sup> ( $\Delta$ ) : -
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm)  Control rack travel in mm  Delivery quantity (x) In cm <sup>3</sup> / 100 strokes  Maximum spread in cm <sup>3</sup> (\( \Delia \))	: 12.0 : 14.5 - 15.5	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm <sup>3</sup> / 500 strokes  Maximum spread in cm <sup>3</sup> (\( \Delta \)) : -
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm)	: 12.0 : 14.5 - 15.5 : 0.3(0.7)	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm <sup>3</sup> / 500 strokes  Maximum spread in cm <sup>3</sup> (Δ) : -  3.TORQUE CONTROL  Speed - min <sup>-1</sup> (rpm) :
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm Delivery quantity (×) In cm <sup>3</sup> / 100 strokes Maximum spread in cm <sup>3</sup> (△)  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm	<ul><li>: 12.0</li><li>: 14.5 - 15.5</li><li>: 0.3(0.7)</li><li>: 200</li></ul>	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm <sup>3</sup> / 500 strokes  Maximum spread in cm <sup>3</sup> (Δ) : -  3.TORQUE CONTROL  Speed - min <sup>-1</sup> (rpm) :
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm Delivery quantity (×) In cm <sup>3</sup> / 100 strokes Maximum spread in cm <sup>3</sup> (Δ)  Speed - min <sup>-1</sup> (rpm)	<ul> <li>: 12.0</li> <li>: 14.5 - 15.5</li> <li>: 0.3(0.7)</li> <li>: 200</li> <li>: 9.0</li> </ul>	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm³ / 500 strokes  Maximum spread in cm³ (△) : -  3.TORQUE CONTROL  Speed - min <sup>-1</sup> (rpm) :  Control rack travel in mm :
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm Delivery quantity (×) In cm <sup>3</sup> / 100 strokes Maximum spread in cm <sup>3</sup> (Δ)  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm Delivery quantity (×) In cm <sup>3</sup> / 100 strokes	<ul> <li>: 12.0</li> <li>: 14.5 - 15.5</li> <li>: 0.3(0.7)</li> <li>: 200</li> <li>: 9.0</li> </ul>	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm <sup>3</sup> / 500 strokes  Maximum spread in cm <sup>3</sup> (Δ) : -  3.TORQUE CONTROL  Speed - min <sup>-1</sup> (rpm) :  Control rack travel in mm :  Speed - min <sup>-1</sup> (rpm) :
Cam displacement Tappet clearance in mm  BASIC SETTING  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm Delivery quantity (×) In cm <sup>3</sup> / 100 strokes Maximum spread in cm <sup>3</sup> (△)  Speed - min <sup>-1</sup> (rpm) Control rack travel in mm Delivery quantity (×)	: 12.0 : 14.5 - 15.5 : 0.3(0.7) : 200 : 9.0 : 3.1 - 3.9	Speed - min <sup>-1</sup> (rpm) : -  Boost pressure in bar : -  Control rack travel in mm : -  Delivery quantity (*) : -  In cm <sup>3</sup> / 500 strokes  Maximum spread in cm <sup>3</sup> (Δ) : -  3.TORQUE CONTROL  Speed - min <sup>-1</sup> (rpm) :  Control rack travel in mm :  Speed - min <sup>-1</sup> (rpm) :

4.COURSE OF DELIVERY		7. GOVERNOR CUTTING IN SPEED
_		
Speed - min <sup>-1</sup> (rpm)	: - 500	Speed - min <sup>-1</sup> (rpm) : 760 - 755
Boost pressure in bar	: -	Control rack travel in mm : Less by 1 mm from full
Delivery quantity (×)	: - 62.0	load control rack travel
In cm³ / 500 strokes	: -	
Maximum spread in cm $^3$ ( $\Delta$ )	: -	While over checking, if the cutting-in speeds
Speed - min <sup>-1</sup> (rpm)	: -	is above the rated speed and if,
Boost pressure in bar	; -	
Delivery quantity (×)	: -	:- the delivery values are within the over
In cm³ / 500 strokes		checking tolerance
Maximum spread in cm³ (Δ)	: -	:- control rack remains at full load position even at 50 min-1 (rpm) less than the rated speed
5. IDLING SPEED CONTROL (RATED SPEED)		the cutting-in speed should be declared OK
Control Lever position	: 44° <u>+</u> 4°	
		8. DEGREE OF IRREGULARITY
Speed - min <sup>-1</sup> (rpm)	: 250	
Control rack travel in mm	: 6.0	Speed - min <sup>-1</sup> (rpm) :
Speed - min <sup>-1</sup> (rpm)	: 100	Control rack travel in mm :
Control rack travel in mm	: 17.0-21.0	No of notches :
Speed - min <sup>-1</sup> (rpm)	: 250	
Control rack travel in mm	: 5.8-6.2	9. STARTING TRAVEL
Speed - min <sup>-1</sup> (rpm)	: 425-475	Speed - min <sup>-1</sup> (rpm) : 100
Control rack travel in mm	: 2.0	Control rack travel in mm : 13.7-14.3
6. Maximum Speed Control (Rated Speed)		10. STARTING FUEL DELIVERY
(with supplementry idling spring	))	
Speed - min <sup>-1</sup> (rpm)	: -	Speed - min <sup>-1</sup> (rpm) : -
Control rack travel in mm	: -	Control rack travel in mm :-
Speed - min <sup>-1</sup> (rpm)	: -	Delivery quantity (*) : -
Control rack travel in mm	; -	In cm <sup>3</sup> / 100 strokes
oom or dek maver millim	·	2.7.5.11 / 255 5.7.5.155
OTHER INFORMATION		Adaption capsule :
Element	;	
Delivery Valce	:	
Flyweight assembly	:	Nozzle :
Governor Spring	:	Opening pressure in bar :
Note:		
1. Sl.No. of the operations inc	dicate the sequence of operations.	3. X : Average of the cylinders
2. Values given in brackets ar	e overchecking values	