

ZEXEL Ass'y No.	106675-4660
Bosch Ass'y No.	
Bosch Typecode	
Engine Type	D1146TI
Manufacturer	DAEWOO
Edition date	02.09.04 (1)

1 Adjustment conditions

CAT	Designation	Unit	Set value	min.	max.	Actual values	OT
	Test oil		ISO4113 or {SAEJ96 7d}				
		1404 Test oil					
P	Test oil temperature	degC	40	40	45		
	Nozzle and nozzle holder		105780-8140				
	Bosch type code		EF8511/9A				
	Nozzle		105780-0000				
	Bosch type code		DN12SD12T				
	Nozzle holder		105780-2080				
	Bosch type code		EF8511/9				
P	Opening pressure	MPa	17.2				
P	Opening pressure	kgf/cm2	175				
	Injection pipe	mm	8-3-600				
		Outer diameter - inner diameter - length (mm)					
	Overflow valve		131424-1520				
P	Overflow valve opening pressure	kPa	157	123	191		
P	Overflow valve opening pressure	kgf/cm2	1.6	1.25	1.95		
P	Tester oil delivery pressure	kPa	157	157	157		
P	Tester oil delivery pressure	kgf/cm2	1.6	1.6	1.6		
	Direction of rotation (viewed from drive side)		R				
		Right					

2 Adjustment specification

2.1 Injection timing adjustment

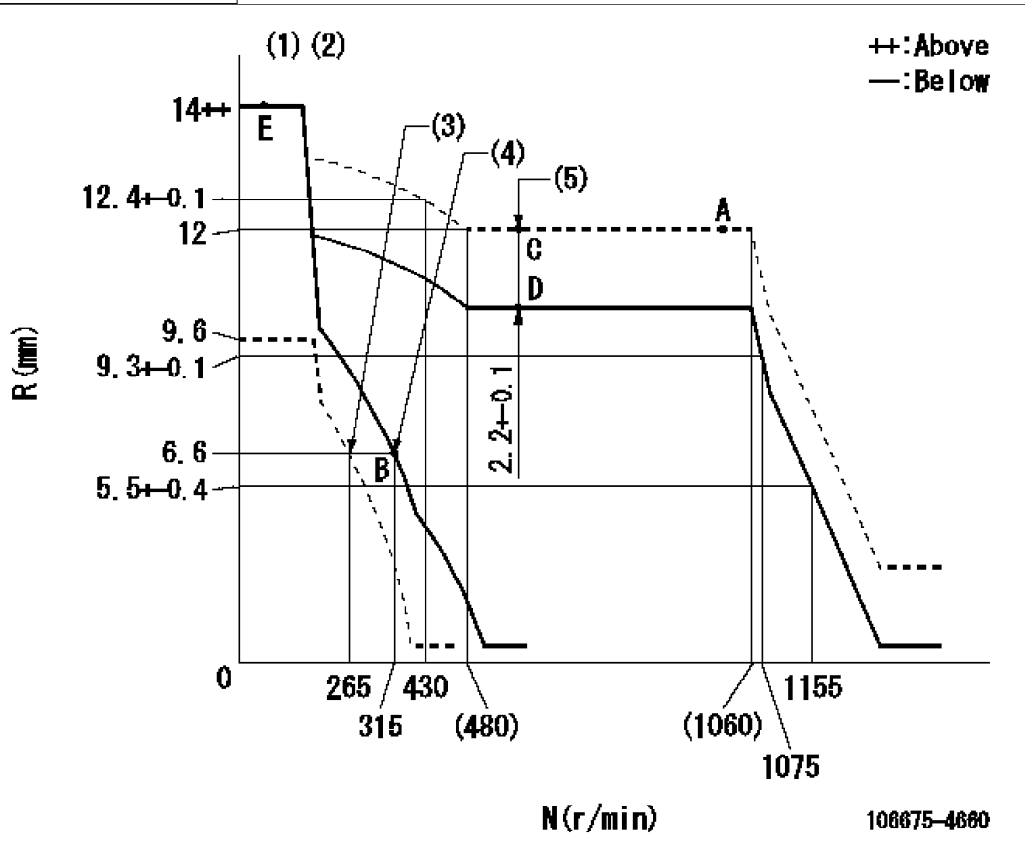
CAT	Designation	Unit	Set value	min.	max.	Actual values	OT
P	Direction of rotation (viewed from drive side)		R				
		Right					
P	Injection order		1-5-3-6-2-4				
S	Pre-stroke	mm	3.9	3.85	3.95		
P	Beginning of injection position		NO.1				
		Governor side					
S	Difference between angles 1	deg.	60	59.5	60.5		
		Cal 1-5					
S	Difference between angles 2	deg.	120	119.5	120.5		
		Cal 1-3					
S	Difference between angles 3	deg.	180	179.5	180.5		
		Cal 1-6					
S	Difference between angles 4	deg.	240	239.5	240.5		
		Cyl.1-2					
S	Difference between angles 5	deg.	300	299.5	300.5		
		Cal 1-4					

2.2 Injection quantity adjustment

CAT	Designation	Unit	Set value	min.	max.	Actual values	OT
P	Adjusting point		A				
P	Rack position		12				
P	Pump speed	r/min	1050	1050	1050		
S	Average injection quantity	mm3/st.	169.5	167.5	171.5		
S	Max. variation between cylinders	%	0	-2	2		
P	Basic		*				
P	Fixing the lever		*				
P	Boost pressure	kPa	133	133			
P	Boost pressure	mmHg	1000	1000			
CAT	Designation	Unit	Set value	min.	max.	Actual values	OT
P	Adjusting point		B				
P	Rack position		6.6+-0.5				
P	Pump speed	r/min	315	315	315		
S	Average injection quantity	mm3/st.	10	8.7	11.3		
S	Max. variation between cylinders	%	0	-15	15		
P	Fixing the rack		*				
P	Boost pressure	kPa	0	0	0		
P	Boost pressure	mmHg	0	0	0		

2.3 Governor adjustment

Name _____



++: Above
—: Below

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K=17

N: Pump speed
R: Rack position (mm)
(1) Target notch: K
(2) Tolerance for racks not indicated: ±0.05mm.
(3) Set idle sub-spring
(4) Main spring setting
(5) Boost compensator stroke

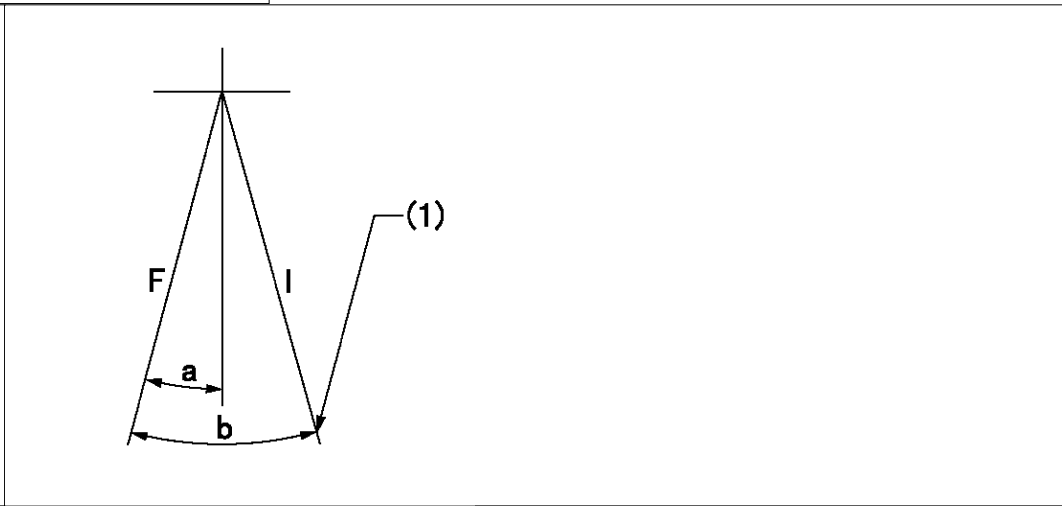
2.4 Boost compensator adjustment

CAT	Designation	Unit	Set value	min.	max.	Actual values	OT
P	Pump speed	r/min	500	500	500		
P	Rack position		R1-2.2				
S	Boost pressure	kPa	20	14.7	25.3		
S	Boost pressure	mmHg	150	110	190		
CAT	Designation	Unit	Set value	min.	max.	Actual values	OT
P	Pump speed	r/min	500	500	500		
P	Rack position		R1(12)				
S	Boost pressure	kPa	120	120	120		
		About					
S	Boost pressure	mmHg	900	900	900		
		About					

2.5 Speed control lever angle

Name _____

a=15deg+5deg
b=28deg+5deg

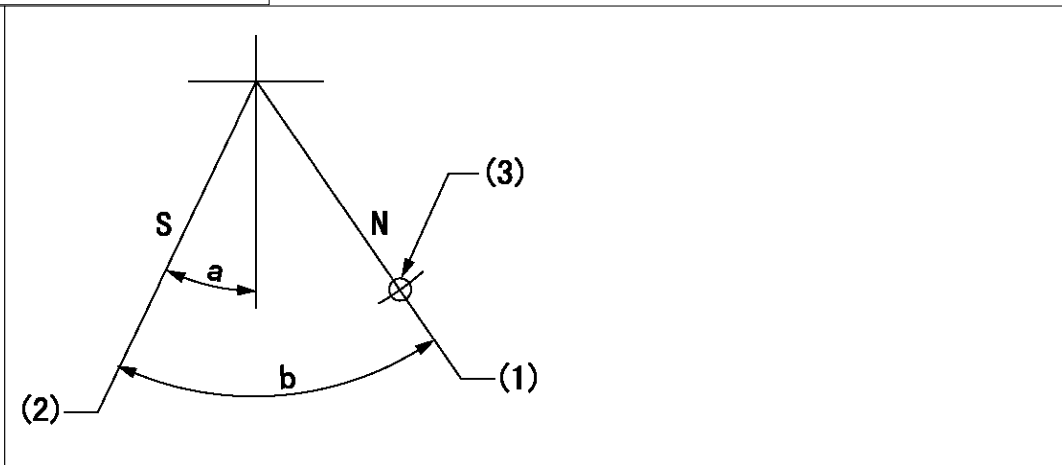


F: Full speed
I: Idle
(1) Stopper bolt setting

2.6 Stop lever angle

Name _____

a=32deg+5deg
b=70deg+5deg



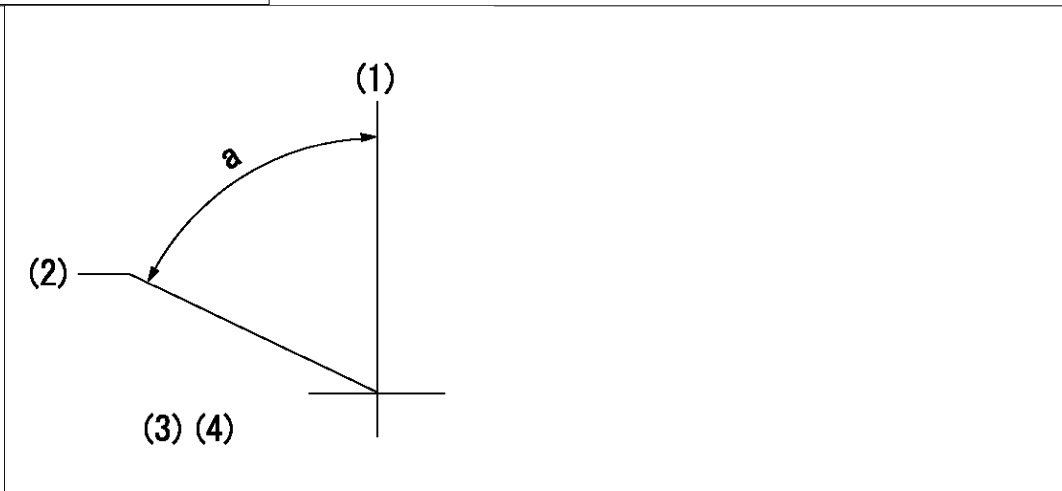
aa=0r/min
bb=1-0.5mm
cc=30mm

N: Pump normal
S: Stop the pump.
(1) Normal
(2) Pump speed aa and rack position bb (to be sealed at delivery)
(3) Use the hole above R = cc

2.7 Timing setting

Name _____

a=(60deg)



(1) Pump vertical direction
(2) Coupling's key groove position at No 1 cylinder's beginning of injection
(3)-
(4)-