SERVICE MANUAL

1402 - 2202 RD Force
2702 - 3602 RD Force



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Engine Datas

Engine	Units	3TNE 68 NSR	3TNE 72 NS	3TNE 74 NSR (2)	3TNE 88 NSR	4TNE 88 NSR
Capacity	(cm³)	784	879	1006	1642	2189
Horsepower	kW (hp)	10 (13,6)	15,8 (21,5)	13,7 (18,7)	20 (27)	23 (31,5)
Compression proportion		23,0	22,3	23,0	18,0	18,0
Injection time	Grad	14 ± 1	16 ± 1	14 ± 1	12 ± 1	14 ± 1
Compression max.	Kg/cm²	33 ± 1	28	35 ± 1	35 ± 1	35 ± 1
Compression min.	Kg/cm²	28	25	27	27	27
Injection plug	Kg/cm²	120 0/+10	120 0/+10	120 0/+10	200 0/+10	200 0/+10
Valve tolerance	mm.	0,15 = 0,25	0,2	0,15 = 0,25	0,15 = 0,25	0,15 = 0,25
Torque cylinder head screw	Nm	60 - 65	60 - 65	60 - 65	87 - 93	87 - 93
Torque connecting rod screw	Nm	23 - 28	23 - 28	23 - 28	45 - 55	45 - 55
Torque main bearing screw	Nm	53 - 57	78 - 85	80 - 85	98 - 102	98 - 102
Flywheel screw	Nm	82 - 88	82 - 88	80 -88	85 -90	85 -90
Ignition timing		1-3-2	1-3-2	1-3-2	1-3-2	1-3-4-2

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Engine Datas

Engine	Units	4TNE82E-NS	4TN84TE-NS	4TNE88NSW	3TN100E	4TNE98-NSR
Capacity	(cm³)	1816	1900	2190	2691	3318
Horsepowe	kW (PS)	25 (34)	35 (47.4)	30 (40.8)	38 (52)	45.6 (62)
Compression proportion		18.0	17.8	18.0	17.6	18
Injection time	Grad	16 ± 1	15 ± 1	14 ± 1	14 ± 1	11 ± 1
Compression max.	Kg/cm²	25	39	35 ± 1	30	35 ± 1
Compression min.	Kg/cm²	27	27	27	27	27
Injection plug	Kg/cm²	200	200	220 0/+10	200 0/+10	220 0/+10
Valve toelerance	Mm	0.2 ~ 0.25	0.2 ~ 0.25	0.15 ~ 0.25	0.27 ~ 0.33	0.15 ~ 0.25
Torque cylinder head screw	Nm	75 ~ 85	75 ~ 85	87 ~ 93	105 ~ 107	103 ~ 112
Torque connecting rod screw	Nm	45 ~ 50	45 ~ 50	45 ~ 55	115 ~ 125	54 ~ 56
Torque main bearing screw	Nm	95 ~ 105	95 ~ 105	98 ~ 102		108 ~ 117
Flyweel screw	Nm	85 ~90	85 ~90	85 ~90	190 ~ 210	186 ~ 205
Ignition timing		1-3-4-2	1-3-4-2	1-3-4-2	1-3-2	1-3-4-2

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GENERAL SPECIFICATIONS		
Operating Weight (kg)		
W / cab	3852 lb (1745)	4123 lb (1870)
W / canopy	3689 lb (1671)	3960 lb (1796)
Dimensions (mm)		
Height / Width / Length	91" (2310) / 38.6" (980) / 100" (2540)	91" (2310) / 38.6" (980) / 100" (2540)
Transport Length	147.6" (3750)	147.6" (3750)
Max. Digging Depth (mm)	82.3" (2090)	81.9" (2080)
W / telescopic arm	n/a	94.9" (2410)
Max. Digging Height (mm)	132.7" (3370)	133.1" (3380)
W / telescopic arm	n/a	148.8" (3780)
Max. Boom Height (mm)	100.4" (2550)	100.8" (2560)
Max. Dump Height (mm)	96.9" (2460)	97.2" (2470)
W / telescopic arm	n/a	104.7" (2660)
Max. Digging Radius (mm)	142.5" (3620)	142.5" (3620)
W / telescopic arm	n/a	160.6" (4080)
Bucket Dig Force (kg)	3144 lb (1426)	3144 lb (1426)
Min. Tail Swing Radius (mm)	45.5" (1155)	45.5" (1155)
Min. Front Swing Radius (mm)	42.5" (1080)	42.5" (1080)
Swing Angle - left/right	80° / 45°	80° / 45°
Hydraulic Telescopic Undercarriage (mm)	n/a	38.6" (980) to 51.2" (1300)
House Leveling	n/a	n/a
DOZER BLADE		
Dimensions (mm)		
Width / Height	38.6" (980) / 9" (230)	38.6" (980) / 9" (230)
Max. Lift (mm)		
Above / Below Ground	7.9" (200) / 12.8" (325)	6.9" (175) / 14" (350)
BUCKET - STANDARD		
Width (mm)	11.8" (300)	11.8" (300)
Capacity (litres)	1.1 cu ft (32)	1.1 cu ft (32)
NOISE LEVEL		
Power / Pressure Level	94 dB(A) / 78 dB(A)	94 dB(A) / 78 dB(A)

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GENERAL SPECIFICATIONS		
Operating Weight (kg)		
W/ cab	6483 lb (2940)	7012 lb (3180)
W/ canopy	6317 lb (2865)	6847 lb (3105)
Dimensions (mm)		
Height / Width / Length	94.5" (2400) / 57.1" (1450) / 12.3" (3080)	98" (2490) / 57.1" (1450) / 121.3" (3080)
Transport Length	197" (5000)	197" (5000)
Max. Digging Depth (mm)	106.3" (2700)	102.8" (2610)
W/ telescopic arm	n/a	n/a
Max. Digging Height (mm)	167.7" (4260)	171.3" (4350)
W/ telescopic arm	n/a	n/a
Max. Boom Height (mm)	128.7" (3270)	132.3" (3360)
Max. Dump Height (mm)	124.8" (3170)	128.3" (3260)
W/ telescopic arm	n/a	n/a
Max. Digging Radius (mm)	179.5" (4560)	179.5" (4560)
W/ telescopic arm	n/a	n/a
Bucket Dig Force (kg)	5780 lb (2620)	5780 lb (2620)
Min. Tail Swing Radius (mm)	53.7" (1365)	53.7" (1365)
Min. Front Swing Radius (mm)	53.5" (1360)	53.5" (1360)
Swing Angle - left/right	80° / 45°	80° / 45°
Hydraulic Telescopic Undercarriage (mm)	n/a	n/a
House Leveling	n/a	15°
DOZER BLADE		
Dimensions (mm)		
Width / Height	57.1" (1450) / 15.4" (390)	57.1" (1450) / 15.4" (390)
Max. Lift (mm)		
Above / Below Ground	20.1" (510) / 19" (480)	19.3" (490) / 19.3" (490)
BUCKET - STANDARD		
Width (mm)	19.7" (500)	19.7" (500)
Capacity (litres)	4.6 cu ft (130)	4.6 cu ft (130)
NOISE LEVEL		
Power / Pressure Level	93 dB(A) / 78 dB(A)	93 dB(A) / 78 dB(A)

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