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MANUAL PREVIEW

Wabco Service Manual 101F Scraper

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Service Manual

WAB-S-101FSCPR

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MANUAL PREVIEW

SECTION A
GENERAL INFORMATION

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Scraper

CAPACITY

Cubic Yards (SAE)	9 (6,88m ³)
Tons	11 (9,98 m tons)

CUTTING BLADE

Width of Cut (outside of router blade)	90 in. (2,28 m).
Cutting Edge Length	88 in. (2,24 m)
One drop center blade	$\frac{3}{4}$ x 13 x 43 $\frac{3}{4}$ in. (1,91 cm x 33,02 cm x 111,13 cm)
Two end blades	$\frac{3}{4}$ x 13 x 22 in. (1,91 cm x 33,02 cm x 55,88 cm)
Ripper teeth (Optional)	4

EJECTION

Operation	Positive
Method	Combination sliding bowl pan and ejector tailgate
Cylinder	one 6 x 17 $\frac{1}{4}$ in. (15,24 cm x 43,81 cm) Hydraulic Cylinder

SCRAPER HYDRAULIC CIRCUITS

Control	Two lever, remote mounted valve
Pump (cover end)	Vane Type, 14GPM @ 2100 RPM (53 liters/min.) Relief valve setting 2000 PSI (138 kg/cm ²)
Cylinders, Bowl Lift	two, double-acting - 5 x 20 in. (12,70 cm x 50,80 cm)

ELEVATOR

Width	4 ft. 8 in. (1,42 cm)
Length	7 ft. 5 $\frac{1}{4}$ in. (2,27 m)
Number of flights	15
Speeds, Forward	@ 2100 Engine RPM, 233 FPM, (71,02 m/min)
Reverse (optional)	@ 2100 Engine RPM, 233 FPM, (71,02 m/min)
Power Source	Hydraulic Motor with special design WABCO 37:1 gearbox with exclusive shock reducing mounting
Pump (shaft end)	38 GPM @ 2100 RPM (144 liter/min)

General

OVERALL DIMENSIONS

Length	29 ft. 11 $\frac{1}{2}$ in. (9,14 m)
Length, scraper only	22 ft. 1 $\frac{1}{2}$ in. (6,74 m)
Width with 18.00-25 tires	8 ft. 0 in. (2,44 m)
Height, to top of scraper	8 ft. 3 in. (2,51 m)
Wheelbase	18 ft. 10 in. (5,74 m)
Ground clearance, Tractor	18 $\frac{1}{4}$ in. (46,6 cm)
Ground clearance, Scraper bowl	13 $\frac{1}{4}$ in. (33,6 cm)
Width with 23.25-25 tires (optional)	8 ft. 0 in. (2,44 m)

TIRES

Standard, Tractor and Scraper	18.00 - 25, 12 PR, Traction E-2 125 TMPH (182 TKPH) Rating
Optional	23.5 - 25, 12 PR, Traction E-2 110 TMPH (160 TKPH) Rating

23.5 – 25, 16 PR, Traction E–2
110 TMPH (160 TKPH) Rating

Approximate TMPH (TKPH) ratings @ 100°F. (38°C.) ambient temperature. Contact tire manufacturer for more specific information.

Operational conditions should be reviewed and tires of these or higher TMPH ratings utilized where needed. Contact factory or tire manufacturer for additional information.

BRAKES, Shoe Type air over hydraulic actuated
Size 17 x 4 in. (43,18 cm x 10,16 cm)

WEIGHT

Shipping Weight, approximate	29,585 lbs. (13 419 kg)
Distribution	Empty Loaded
Drive Axle	62% 49.5%
Rear Axle	38% 50.5%

ANTIFREEZE RECOMMENDATIONS

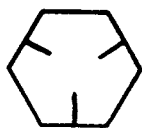
Permanent type antifreeze (Ethylene Glycol) with rust inhibitor is recommended for use in the Model 101F Tractor/Scraper engine cooling system. The following chart shows recommended antifreeze quantities for the 8.5 gallon engine cooling system. Bring system to full capacity with fresh water. Mix coolant thoroughly. For

specific product recommendations consult the engine manufacturer's representative.

NOTE: Alcohol base or other non-permanent type antifreezes are not recommended for use in the WABCO Tractor/Scraper.

Ethylene Glycol Permanent Type Antifreeze

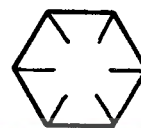
Percentage of Antifreeze	Gallons	Liters	Protection To:
20	1.7	6,4	+16°F. – 9°C.
25	2.1	7,9	+11°F. –11°C.
30	2.6	9,8	+ 4°F. –16°C.
35	3.0	11,4	– 3°F. –19°C.
40	3.4	12,9	–12°F. –24°C.
45	3.8	14,4	–23°F. –30°C.
50	4.3	16,3	–34°F. –36°C.
55	4.7	17,8	–48°F. –44°C.
60	5.1	19,3	–62°F. –52°C.



TORQUE CHART STANDARD

HEX HEAD CAPSCREWS AND NUTS
(Lubricated and Cadmium Plated Threads)

Tolerance $\pm 10\%$



GRADE 5

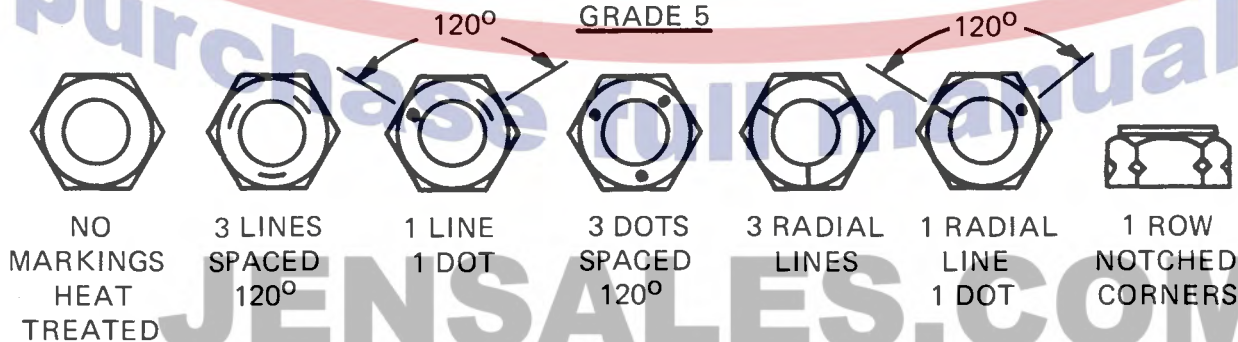
GRADE 8

Capscrew or Nut Size	Torque Grade 5		Torque Grade 8		Capscrew or Nut Size	Torque Grade 5		Torque Grade 8	
	Ft. Lbs.	Kg/M	Ft. Lbs.	Kg/M		Ft. Lbs.	Kg/M	Ft. Lbs.	Kg/M
1/4-20	7	0,97	10	1,38	3/4-16	220	30,43	335	46,44
1/4-28	8	1,1	11	1,52	7/8-9	320	44,26	500	69,15
5/16-18	15	2,07	21	2,9	7/8-14	350	48,42	530	73,31
5/16-24	16	2,21	22	3,03	1-8	480	66,38	750	102,73
3/8-16	25	3,46	35	4,85	1-12	515	71,22	790	108,26
3/8-24	30	4,16	40	5,53	1-14	525	72,61	800	110,64
7/16-14	40	5,53	58	8,02	1-1/8-7	650	89,9	1050	144,22
7/16-20	45	6,22	62	8,57	1-1/8-12	700	96,81	1140	156,66
1/2-13	65	8,99	90	12,45	1-1/4-7	910	125,84	1480	204,68
1/2-20	70	9,68	95	13,14	1-1/4-12	975	134,83	1580	218,51
9/16-12	90	12,45	125	16,29	1-3/8-6	1200	165,96	1940	269,29
9/16-18	95	13,14	135	17,67	1-3/8-12	1310	181,17	2120	293,2
5/8-11	125	16,29	175	25,2	1-1/2-6	1580	218,51	2560	354,05
5/8-18	135	17,67	190	26,28	1-1/2-12	1700	235,11	2770	393,1
3/4-10	200	27,66	310	42,97					

NUT IDENTIFICATION

Markings Used by Various Manufacturers

GRADE 5



GRADE 8

