

NOZZLE INSTALLATION GUIDE

INS-T-690 & INS-T-670-680-750-780

REPLACES: TORO® 650, 670, 680, 750, 780

STEP 1: REMOVE OLD DRIVE ASSEMBLY

STEP 2: ASSEMBLE NEW CONVERSION ASSEMBLY

- Twist off nozzle/cap (counterclockwise).
- Pull off nozzle assembly.
- Snap in correct nozzle. (see Performance Chart).



FOR WINDY CONDITIONS

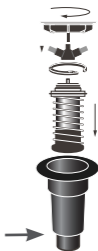
- Turn short range nozzle to vertical position to improve distribution patterns.

NORMAL WINDY



STEP 3: INSTALL NEW CONVERSION ASSEMBLY

- Place new assembly in body.
- Install new snap ring.
- Reinstall nozzle/cap assembly. (twist on clockwise).



TORO 1 1/2"
INLET BODY

**NOTE: Cap is self-tightening,
no need to overtighten.**

PERFORMANCE DATA

INS-T-690 & INS-T-670-680-750-780

Nozzle	Pressure	Radius*	Discharge	Pressure	Max. Radius*	Discharge	Toro Nozzle Reference				
	PSI	ft.	gpm	BAR	m	L/s	690	670	680	750	780
29 Yellow	50			3.4			56			54	84
	60	66	25.1	4.1	20.1	1.58					
	70	69	27.0	4.8	21.0	1.70					
	80	72	28.8	5.5	21.9	1.81					
	90	74	30.6	6.2	22.5	1.83					
	100	76	32.1	6.9	23.1	2.02					
32 Gray	50			3.4			57		84	55	85
	60	68	26.9	4.1	20.7	1.69					
	70	71	29.7	4.8	21.6	1.87					
	80	74	31.7	5.5	22.5	1.99					
	90	76	33.5	6.2	23.1	2.11					
	100	78	35.3	6.9	23.7	2.22					
37 Red	50			3.4			58		85	56	86
	60	74	34.0	4.1	22.5	2.14					
	70	75	35.5	4.8	22.8	2.23					
	80	76	37.0	5.5	23.1	2.33					
	90	78	38.5	6.2	23.7	2.42					
	100	78	40.0	6.9	23.7	2.62					
40 Brown	50			3.4			59	70	86		87
	60	78	38.0	4.1	23.7	2.39					
	70	79	39.0	4.8	24.0	2.46					
	80	80	40.0	5.5	24.3	2.62					
	90	82	41.5	6.2	24.9	2.61					
	100	84	43.0	6.9	25.6	2.71					
45 Green	50			3.4				71	87	57	88
	60	80	41.5	4.1	24.3	2.61					
	70	82	43.0	4.8	24.9	2.71					
	80	84	45.0	5.5	25.6	2.83					
	90	86	47.0	6.2	26.2	2.96					
	100	87	49.0	6.9	26.5	3.09					
50 Black	50			3.4				72	88	58	89
	60			4.1							
	70	85	47.5	4.8	25.9	2.99					
	80	87	50.0	5.5	26.5	3.15					
	90	89	53.0	6.2	27.1	3.34					
	100	91	57.0	6.9	27.7	3.59					
57 Blue	50			3.4				73, 74			
	60			4.1							
	70	85	55.0	4.8	25.9	3.46					
	80	87	57.0	5.5	26.5	3.59					
	90	90	58.5	6.2	27.4	3.69					
	100	100	66.0	6.9	30.4	4.16					



Customer Service

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