

## Carrier/Carlyle 5F Compressor Bolt Torques

USAGE	TORQUE	SIZE	THREADS
Auxiliary control valve cover	10-12	1/4	28 NF
Auxiliary control valve cover	8-10	#6	32
Brass Schrader valve	10-12.5	1/8	NPT
Brass Schrader valve	18-20.8	1/4	NPT
Cap - oil relief valve assembly	60-75	5/8	18 NC
Capacity control valve	15-20	5/16	24 NF
Connecting rod lock nut	22-25	5/16	24 NF
Crankcase bottom plate	25-29	3/8	16 NC
Crankshaft flywheel lock nut	45-50	3/4	10 NC
Crankshaft flywheel screw	30-35	3/8	24 NF
Cylinder head	25-29	3/8	16 NC
Discharge service valve	80-85	1/2	13 NC
Discharge valve guide assembly	12-15	1/4	28 NF
Discharge valve inner seat	12-15	1/4	28 NF
Hand hole cover	25-29	3/8	16 NC
Lock screw - pump bearing head	60-75	5/8	18 NC
Magnetic plug - crankcase	60-75	5/8	18 NC
Magnetic plug - pump bearing head	60-75	5/8	18 NC
Oil bypass plug - pump bearing head	60-75	5/8	18 NC
Oil pump cover	12-15	1/4	28 NF
Oil relief valve assembly	45-55	5/8	18 NC
Oil return check valve	25-30	7/16	20 NF
Oil sight glass	34-45	1-1/2	18 NEF
Pipe plug - crankshaft	20-25	1/4	NPT
Pipe plug - manifold cover	20-25	1/4	NPT
Pipe plug - pump end bearing head	20-25	1/4	NPT
Pipe plug - pump end bearing head	30-35	3/8	NPT
Pump end bearing head	25-29	3/8	16 NC
Shaft seal cover plate	25-29	3/8	16 NC
Suction and discharge manifold cover	25-29	3/8	16 NC
Suction manifold	25-29	3/8	16 NC
Suction service valve (2 & 3 cyl)	80-85	1/2	13 NC
Suction service valve (4 & 6 cyl)	120-130	5/8	11 NC
Unloader power element assembly	10-15	1/4	28 NF
Unloader power element cover plates	10-15	1/4	28 NF

TORQUE RANGE = ft-lb. NEF = National Extra Fine.

THREADS are per inch. NC = National Course. NF = National Fine.

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Compressor Reference 2004

## Carrier/Carlyle 5H Compressor Bolt Torques

USAGE	TORQUE	SIZE	THREADS
Auxiliary control valve	16-20	5/16	18 NC
Auxiliary control valve cover	8-12	1/4	28 NF
Auxiliary control valve cover	8-10	#6	32
Brass Schrader valve	10-12.5	1/8	NPT
Brass Schrader valve	18-20.8	1/4	NPT
Cap - oil pressure relief valve	80-90	5/8	18 NF
Capacity control valve	16-20	5/16	18 NC
Capacity control valve	18-22	5/16	24 NF
Capillary tube assembly - pump head	25-29	3/8	16 NC
Connecting rod - aluminum	28	3/8	16 NC
Connecting rod locknut	40-45	7/16	20 NF
Cylinder head	55-60	7/16	14 NC
Discharge manifold	55-60	7/16	14 NC
Discharge valve guide assembly	18-22	5/16	24 NF
Discharge valve inner seat	18-22	5/16	24 NF
Hand hole cover	55-60	7/16	14 NC
Lock screw - pump head & center main	80-90	5/8	18 NF
Magnetic plug - pump bearing head	60-75	5/8	18 NF
Manifold cover plate	16-20	5/16	18 NC
Modulating valve adapter	60-75	5/8	18 NF
Oil bypass plug - crankcase	60-75	5/8	18 NF
Oil bypass plug - pump bearing head	60-75	5/8	18 NF
Oil pressure relief valve	45-55	5/8	18 NF
Oil pressure relief valve	55-65	7/8	14 NF
Oil pump cover	12-16	1/4	28 NF
Oil pump cover	16-20	5/16	18 NC
Pipe plug - auxiliary control valve	10-15	1/16	NPT
Pipe plug - crankcase	20-25	1/4	NPT
Pipe plug - crankcase	35-40	1/2	NPT
Pipe plug - crankcase	45-50	3/4	NPT
Pipe plug - crankcase	50-55	1	NPT
Pipe plug - crankshaft	20-25	1/4	NPT
Pipe plug - crankshaft	30-35	3/8	NPT
Pipe plug - pump end bearing head	15-20	1/8	NPT
Pipe plug - pump end bearing head	30-35	3/8	NPT
Pipe plug - pump end bearing head	35-40	1/2	NPT
Pressure relief valve - crankcase	35-40	1/2	NPT
Pressure relief valve - manifold	35-40	1/2	NPT
Pump end cover and bearing head	55-60	7/16	14 NC
Seal plug - pump bearing head	60-75	7/8	14 NF
Sight glass	35-45	1 1/2	18 NEF
Special cap screw - aux. control valve	8-12	1/4	28 NF

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USAGE	TORQUE	SIZE	THREADS
Suction and discharge manifold	80-90	1/2	13 NC
Suction and discharge manifold cover	35-60	7/16	14 NC
Suction manifold and cover	140-150	5/8	11 NC
Suction manifold cover	80-90	1/2	13 NC
Unloader power element assembly	18-22	5/16	24 NF
Valve plate	55-60	7/16	14 NC

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