

## CONTINENTAL AIRCRAFT ENGINE CO.

AIR CORPS HYPER 2A ENGINE  
5-1/2 x 5 SINGLE CYLINDER

ASSEMBLY # HYPER 602

PART NO.	NO REQD	PART NAME
2024	9	Plug 1/8 pipe
2025	3	Plug 3/8 pipe
2441	2	Nut, 3/8-24
2497	18	Lockwasher 3/8
2501	7	Cotter pin 1/16 x 1/2
2506	8	Cotter pin 3/32 x 3/4
2512	1	Cotter pin 1/8 x 1-1/4
2560	10	Palnut 5/16-24
2561	6	Palnut 3/8-24
2732	2	Clamp 2-3/4 O.D. Hose
2886	32	Palnut 1/4-28
2958	10	Palnut 7/16-20
20102	1	Flange, Camshaft drive housing
20103	1	Cover, Camshaft drive gear housing
20111	4	Key, Valve spring washer
20116	2	Bolt, Connecting rod
20119	1	Bushing, Camshaft drive pinion
20120	1	Gasket, Camshaft drive housing
20121	1	Packing, Camshaft drive housing
20123 *	1	Flange, Exhaust pipe
20126 *	1	Gasket, Exhaust pipe flange
20129	2	Nut, Connecting rod bolt
20130	2	Pin, Connecting rod bolt lock
20131	2	Dowel, Connecting rod bearing
20139	1	Plug, 1/2-20 straight
20141	1	Gasket, Camshaft drive gear housing cover
20142	3	Screw: 5/16-24 x 5/8 drilled hex. head

(\*) No drawing. Supplied by Materiel Division

Sheet #1  
6 Sheets

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PART NO.	NO. REQD.	PART NAME
20148	2	Bolt, 3/8-24 x 7/8 hex head
20149	3	Screw: 3/8-16 x 7/8 hex head
20151	7	Bolt, 3/8-24 x 1-1/4 hex head
20152	4	Screw: 3/8-16 x 1-3/8 hex head
20153	2	Screw: 3/8-24 x 1-1/2 hex head
20156	2	Circlet, valve
20157	2	Washer, valve spring lower
20160	1	Insert, Intake valve seat
20162	2	Insert, Spark plug
20163	1	Insert, fuel nozzle
20165	1	Plug, Fuel nozzle replacement
20167	1	Pipe, Cylinder head outlet
A20167		Assembly, Cylinder head outlet pipe
20168	1	Flange, cylinder head outlet pipe
20169	1	Gasket, Cylinder head outlet pipe
20172	1	Bushing, Conn. rod piston pin
20173	1	Cover, Camshaft housing end
20174	2	Bushing, Valve rocker
20175	2	Pin, 1/4 Dia. x 23/32
20178	2	Screw, Valve rocker adjusting
A20178		Assembly, Valve rocker adj. screw
20179	2	Pad, Valve rocker adjusting screw
20180	2	Nut, Valve rocker adjusting screw
20181	2	Plug, Piston pin
20183	6	Stud: 1/4-20; 1/4-28 x 1-19/32
20184	2	Dowel, 1/4 Dia. x 19/32
20185	4	Stud, 5/16-18 & 24 x 1-31/32 Drilled

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PART NO.	NO. REQD.	PART NAME
20186	1	Plug, 1" square head pipe
20187	2	Stud: 5/16-18; 5/16-24 x 1-9/32
20188	11	Nut, 5/16-24 S.A.E. Plain
20189	44	Washer, 17/64 I.D. x 1/2 O.D. x 1/16
20190	14	Washer, 21/64 I.D. x 9/16 O.D. x 1/16
20191	2	Washer, 25/64 I.D. x 11/16 O.D. x 1/16
20192	4	Nut, 5/16-24 S.A.E. Castle
20193	3	Nut, 1/4-28 S.A.E. Castle
20194	32	Nut, 1/4-28 Plain
20195	2	Nut, 3/8-24 S.A.E. Castle
20196	8	Nut, 3/8-24 Plain
20197	4	Stud, 1/4-28 x 1-13/32 (Special)
20199	6	Dowel, 3/16 x 1/2
20200	2	Stud, 3/8-16 & 24 x 2-3/32 drilled
20201	12	Screw, 1/4-28 x 1-5/32 hex head
20202	4	Washer, 29/64 I.D. x 7/8 O.D. x 1/8
20203	4	Nut, 7/16-20 S.A.E. Castle
20204	1	Nut, 7/8-14 S.A.E. Castle
20205	1	Washer, 57/64 I.D. x 1-3/8 O.D. x 1/8
20206	3	Bolt, 1/4-28 x 23/32 Special
20207	10	Stud, 1/4-20; 1/4-28 x 1-5/32
20208	4	Stud, 5/16-18; 5/16-24 x 1-17/32
20209	1	Gasket, Camshaft housing end cover
20210	2	Shaft valve rocker
A20210		Assembly, Valve rocker shaft
20211	4	Plug, Valve rocker shaft
20212	1	Tube, Camshaft drive housing

PART NO.	NO. REQD	PART NAME
A20212		Assembly, Camshaft drive housing
20213	2	Stud, 3/8-16; 3/8-24 x 1-31/32
20214	1	Gasket, Intake pipe
20215	1	Flange, Intake pipe
20216	2	Stud, 3/8-16; 3/8-24 x 1-19/32
20217	1	Hose, 2-3/8 I.D. x 2-3/4 O.D. x 2
20218	1	Gasket, 1/2 I.D. x 3/4 O.D. annular
20219	10	Nut, 7/16-20 (Special)
20220	2	Stud, 3/8-16; 3/8-24 x 1-15/32
20221	5	Screw, 5/16-24 x 1-11/32 hex head
20222	10	Stud, 7/16-20 x 2 Special
20223	1	Pin, piston
20224	2	Gasket, Carburetor
20226	2	Nipple 7/8 O.D. Hose
20227	1	Plug 1"-18
20228	3	Gasket -Cylinder transfer elbow
20229	1	Cover -Cylinder transfer
20230	3	Gasket 1" I.D. annular
20231	1	Insert -Exhaust valve seat
20232	2	Roller -Valve rocker
20233	34	Pin 3/32 Dia. x 5/16
20234	2	Guide -Valve
20235	2	Hub -Valve rocker roller
A20236		Assembly -Valve rocker
3301	1	Support, Camshaft drive pinion
3305	1	Gear, Camshaft
3310	1	Bearing, Conn. rod upper

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PART NO.	NO. REQD.	PART NAME
3311	1	Bearing, Conn. rod lower
3318	1	Bracket, Camshaft housing support
3322	1	Support, Carburetor
3323	1	Stiffener, Carburetor support L.H.
3326	1	Stiffener, Carburetor support R.H.
3327	2	Spring, Valve outer
3328	2	Spring, Valve intermediate
3329	2	Spring, Valve inner
3331	2	Rocker - Valve
3332	1	Valve - Intake
3334	1	Cap, Camshaft front bearing
3338	1	Pinion, Camshaft drive
3340	2	Washer, Valve spring upper
3341	3	Ring, compression piston
3342	2	Ring, Oil scraper piston
3344	1	Housing, Camshaft drive gear
3345	4	Stud: 1/2-13: 7/16-20 x 5-17/32 Drilled Special
3346	1	Adapter, Carburetor intake pipe
3347	2	Elbow - Cylinder transfer
4201	1	Connecting rod
4208	1	Flange, Dynamometer
4212	1	Piston, 5.75 to 1 compression ratio
4213	1	Barrel, Cylinder
4215	1	Flange, Cylinder adapter
4216	1	Camshaft
4219	1	Support, Camshaft housing
4220	1	Support, Valve rocker

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PART NO.	NO. REQD	PART NAME
4221	1	Pipe, Intake
A4221		Assembly, intake pipe
4223	1	Cylinder head
A4223		Assembly -Cylinder machining
4224	1	Jacket -Cylinder barrel
4225	1	Valve -Exhaust
4226	1	Cam -Intake
4227	1	Cam -Exhaust
6080	1	Crankshaft
6084	1	Housing, Camshaft
6085	1	Cover, Camshaft housing