



**LORD Mounts
for General Aviation**

LORD
Ask Us How™

LORD ENGINE MOUNTS FOR YOUR AIRCRAFT APPLICATION

MODEL	LORD PART NO.	NO. PER A/C	SPECIAL INFORMATION
AEROFAB/COLONIAL			
C-2	J-7401-2	4	
AVIAT			
S-1, S-1S, S-2A	J-7401-2	8	
AEROMACCHI			
AL-60C5/F5	J-9613-24 / -9	2 ea.	
BELLANCA			
17-30A	J-12453-1 / -2	2 ea.	S/N 30847 & up
17-31, 17-31A, 17-TC, ATC	J-9868-5	4	
7ECA	J-6230-1	4	Citabria (1967 on)
7GCAA, 7GCBC, 7KCAB	J-6230-1	4	
8KCAB, -180, -CS, -FP	J-6230-1	4	
BRITTON NORMAN			
BN-2, BN-2A MK. 111	J-7402-20	8	
BRITISH AEROSPACE			
3100/3200	LM-600-88	12	Replaces 00-11624-01
3100/3200	LM-600-90	6	Replaces 82-9060-01
CESSNA			
150, 150A-F, F150	SE-1051-3	1	NLG Damper (Early Models)*
152, 152 Aerobat	J-7402-1	4	S/N 15279406-85594
152, 152A, 172	SE-1051-2	1	NLG Damper*
172 I-P	J-9613-49	4	
172Q	J-9613-49 / -72	2 ea.	S/N 17275869 on
172R, S	J-9613-82	4	*
172RG	J-9613-49 / -72	2 ea.	
R172E, K	J-9613-42 / -12	2 ea.	S/N R172-0302 to -0335
177, A-B	J-9613-49	4	
177RG	J-9613-59	4	
180	J-3804-14 / -15	2 ea.	S/N 30002-32150
180, 180A-H	J-6545-1	4	
182, 182A-R	J-6545-1	4	
182 (new)			
T182, TR182	J-9613-12	4	
185, 185A-E	J-6545-1	4	
A188B	J-15198-1 / -2	2 ea.	S/N 18802349 & up
T188	J-15198-2 / J-6545-6	2 ea.	S/N T1883297T & up
205, 205A	J-6545-1	4	
206 (new)			

MODEL	LORD PART NO.	NO. PER A/C	SPECIAL INFORMATION
P206, P206A-E	J-12453-1 / -2	2 ea.	
TU206A-F	J-12453-1 / -2	2 ea.	
U206	J-12453-1 / -2	2 ea.	
207, 207A, 207A II	J-12453-1 / -2	2 ea.	
208	LM-600-60 (Spacer)	3	*
208	LM-600-9 (Sand)	6	*
210, 210A-C	J-6545-1	4	
210D-L	J-12453-1/-2	2 ea.	
P210R	J-12453-1/-2	4/2	
T210F-L	J-12453-1/-2	2 ea.	
T210M, N	J-12453-1/-2/SPEC	2 / 1 / 1	SPEC is Cessna part
310J-Q	J-12390-1	8	
310R, T310	J-9613-58	8	
320, 320A-C	J-7764-4	8	
320D-F	J-9613-31 or -58	8	2 Con TSI0-520-B, BB
335	J-9613-58	8	
336	J-7764-10	8	
337, 337A-H, P337H	J-9613-31	8	
T337B-G	J-9613-31	8	
340, 340A	J-9613-58	8	
401, 401A, B	J-9613-58	8	
402, 402A, B, C	J-9613-58	8	
404	J-9613-54	8	
414, 414A	J-9613-58	8	
421, A, B, C	J-9613-54	8	
425	LM-600-20 (Spacer)	6	*
425	LM-600-9 (Sand)	12	*
441	200PE1210-45	2	*
441	LM-600-12 (Spacer)	6	*
441	LM-600-9 (Sand)	12	*
500/501	LM-420-SA5 / -SA6	4 / 2	*
550/551	LM-420-SA23/30/31	2 ea.	*
DASSAULT			
FALCON 50	LM-833-SA9	2	
FALCON 50, 90, 900EX	LM-833-SA13	2	Engine 2 Isolator
FALCON 50, 900	LM-833-SA10	2	Center Engine Isolator
FALCON 50EX	LM-833-SA20-6 SA18-1	4/2	Side Engines
FALCON 50EX	LM-833-SA21/-SA22	2 / 1	Center Engine Isolator

FOR REFERENCE ONLY – OEM AIRCRAFT MANUAL IS GOVERNING DOCUMENT

MODEL	LORD PART NO.	NO. PER A/C	SPECIAL INFORMATION
DeHAVILLAND			
DHC6-100/200/300	J-23379-1	6	5906-2SA5 Ovhl Parts Kit
EMBRAER			
EMB-810	J-9613-58	8	
EMB-820	J-9613-12	8	
GAF AUSTRALIA			
N 22B, N24A	LM-206-SA8-1	6	
GULF AMERICAN			
AA-1	J-6113-5	8	
AA-1C, AA-5, AA-5A	J-7402-24	4	
AA-5B	J-9613-49	4	S/N 0001-0399
AA-5B, AG-5B	J-9613-59	4	S/N 0399 & up
AA-IA, B	J-6113-5	8	
GA-7	J-9613-49	8	
111, 112, 112B, 112T, 112TCA	J-9613-40 / -53	2 ea.	
500	J-3804-20	8	
HELIO			
H-250	J-9613-12	4	
LAKE AIRCRAFT			
LA-4A, LA-4-200	J-7402-6	4	
LEARJET			
28, 29	LM-308-SA4	2	*
23, 24, 24D/E, 28, 29	LM-308-19, -33	4 / 2	*
23, 24	LM-308-SA4	2	*
24D, E	LM-308-SA4	2	*
35, 35A, 36, 36A	LM-833-SA4 / -SA5	4 / 2	
MAULE			
M-4-210, -210C, S, T, M-5-210C	J-7764-10	4	
M-5-235C, M-6-235	J-7764-20	4	
MOONEY			
M20B	J-7402-1	4	S/N 1701 to 1939
M20C	J-7402-1	4	S/N 1940 to 20-1258
M20D	J-7402-1	4	S/N 101-260
M20E	J-7402-16	4	S/N 101 to 470
M20E	J-9613-12	4	S/N 471 to 21-1180
M20F	J-9613-12	4	S/N 1 thru 22-1438
M20G (1968 - 70)	J-7402-1	4	680001 to 700006
M20Jv	J-9613-40	4	S/N 24-0001 & up
M20K (1979 - 85)	J-9613-58	4	1 Con TSI0-360-GB1

MODEL	LORD PART NO.	NO. PER A/C	SPECIAL INFORMATION
M20K (1979 - 85)	J-9613-75 / -76	1 / 3	1 Con TSI0-360-GB3 or -MB1
M20 various	J-11968-14		Landing Gear Shock
NEW ZEALAND AERO			
FU24-954	J-9613-9 / -24	2 ea.	
FU24A-954	J-9613-9 / -24	2 ea.	
PARTENAVIA			
P-68	J-9613-40	4	
PIPER			
620 XL, -31T2	LM-423-SA1, -SA12	2	
PA-23-250	J-3804-20	8	S/N 27-1 to 27-2504
PA-23-250	J-9613-12	8	
PA-23-250T	J-9613-12	8	
PA-24-250	J-3804-20	4	S/N 24-103 up
PA-24-250	J-3804-41	4	w/McCauley Prop STC
PA-24-260	J-3804-20	4	S/N 24-33642/400-4782
PA-24-400	J-9613-24 / -9	2 ea.	
PA-25-235	J-3804-20	4	
PA-25-260	J-3804-20	4	
PA-28-140	J-7402-16	4	S/N 20002-24999
PA-28-140	J-9613-40 / -53	2 ea.	S/N 7, 225, 001 & up, 25000-7,125, 641
PA-28-150	J-7402-16	4	
PA-28-150	J-7402-24	4	
PA-28-151	J-9613-40 / -53	2 ea.	
PA-28-160	J-7402-16	4	S/N 1-507
PA-28-160	J-7402-24	4	S/N 28-1479 to 1760
PA-28-161	J-9613-40 / -53	2 ea.	
PA-28-180	J-7402-16	4	S/N 1761-4377
PA-28-180	J-7402-24	4	S/N 330-5149
PA-28-180	J-9613-40	4	S/N 5150 & up
PA-28-181	J-9613-40	4	
PA-28-236	J-9613-12	4	
PA-28R-180	J-9613-40	4	S/N 30001 & up
PA-28R-200	J-9613-40	4	S/N 35001 & up
PA-28R-201	J-9613-40	4	S/N 28R-7737002 & up
PA-28R-201T	J-9613-58	4	
PA-28S-160	J-7402-16	4	S/N 508-1478, 1761-4377
PA-30	J-9613-19	8	
PA-31	J-9613-12	8	

MODEL	LORD PART NO.	NO. PER A/C	SPECIAL INFORMATION
PA-31-300	J-9613-30	8	
PA-31-310	J-9613-12	8	
PA-31-325	J-9613-12	8	*
PA-31-350	J-9613-29	8	*
PA-31T-1, -500, -620	LM-423-SA1 / SA12	4 / 2	
PA-32-260	J-3804-27	4	S/N 32-570 & up
PA-32-260	J-7402-20	4	S/N 32-1 to 32-569
PA-32-300	J-3804-27	4	S/N 32-40001 to 32-7240055
PA-32-300	J-3804-40	4	S/N 7240056 & up
PA-32-301	J-9613-12 / -19	2 ea.	
PA-32R-300	J-3804-31	4	S/N 32R7680001 & up
PA-32R-300	J-3804-40	4	S/N 32R7680141 & up
PA-32R-301	J-9613-12 / -19	2 ea.	
PA-32RT-300	J-3804-40	4	
PA-32RT-300T	J-3804-37 / -39	2 ea.	
PA-34-200	J-9613-40	4	
PA-34-200, 200T	J-9613-58	4	
PA-38-112	J-7402-16	4	
PA-39	J-9613-19	8	
PA-44-180T	J-9613-40	8	
PA-46-310P MALIBU	J-9613-55	4	8408001-87, 8508109-109, 4608001-140
PA-46-350P	J-9613-55	4	S/N 4622001 & up
RAYTHEON			
E18S-H18S	J-5384-1 / J-5385-1	4 ea.	
19A, M19A, B19	J-7402-16	4	
A23, A23-24	J-10778-4	4	
C-23	J-7402-16	4	
24, A24/R, B24R, C24R	J-10778-14 / -16	2 ea.	
E33, F33	J-7518-2	4	
E33A, C, F33A, C, G33	J-10520-1	4	
35, A35, B35	J-2245-1	8	
E35, F35, G35	J-3049-17	8	
H35 thru P35	J-7518-2	4	
S35, T35, V35A, V35B / TC	J-10520-1	4	
36, A-36	J-10520-1	4	
A36TC	J-10520-1	4	
B50, C50	J-3804-10	8	
E50, F50, G50, H50, J50	J-6545-1	4	

MODEL	LORD PART NO.	NO. PER A/C	SPECIAL INFORMATION
55, A55, B55	J-7518-2	4	S/NTC1 to TC15
55, A55, B55, B55A	J-9613-5	4	S/N TC176 thru TC-1254
C55, C55A, D55, D55A, E55, E55A	J-10778-16	8	
56TC, A56TC	J-9613-9	8	
58	J-10778-16	8	
58P, 58TC	J-12453-12	8	
60, A60, B60	J-9613-9	8	
65, A65	J-6545-1	8	
70	J-6545-1	8	
76, 76TC	J-9613-49 / -50	2 ea.	
77	J-7402-1	4	
80, A80, B80	J-6545-1	4	
95, B95, B95A	J-7402-1	8	
D95A, E95	J-7402-1	8	
C90, C90A	LM-427-SA7	6	
E90, F90, A100	LM-427-SA7	6	
B100	LM-821-SA49/-SA50	4 / 2	
200, B200, 200C, 200CT	LM-427-SA7	8	
C90, E90, C99	LM-427-SA12	3	Overhaul Kit for Barry Controls P/N 5906-2SA9
200, 200C, 200CT, A200, A200C/CT, B200, B200C/CT/T	LM-427-SA12	4	Overhaul Kit for Barry Controls P/N 5906-2SA9
MU-2B-20	LM-821-SA40/-SA41	4 / 2	S/N 224 & up
MU-2B-25/-26	LM-821-SA47 / -SA48	4 / 2	S/N 280 & up
MU-2B-60	LM-821-SA47 / -SA48	4 / 2	all effective S/N
MU-300, MU-300-10	LM-420-SA15 / -SA16	4 / 2	
400	LM-420-SA15 / -SA16	4 / 2	
RILEY			
Dove Convers.	J-9613-9	9	
SHORT BROS.			
SC, 7, Series 3	LM-821-SA22/24/31	2 ea.	
SIAI-MARCHETTI			
S-208, SF-260 / M / W	J-3804-40	4	
SOCATA			
235C, E	J-9613-40	4	

MAINTENANCE OF BONDED SANDWICH MOUNTINGS AND ASSEMBLIES

For type certificated aircraft, you must use the FAA approved component maintenance manual.

1. General Comments

Bonded sandwich assemblies are natural rubber or specially blended synthetic compounds bonded to two plates. The normal installation requires four assemblies, each consisting of two sandwich mountings and one spacer. Satisfactory performance requires that the spacer be designed to the correct length to precompress each mounting to guarantee proper positioning of the mountings. When properly installed, these mountings provide excellent isolation of engine vibration, resulting in smoother, quieter flight. Always order replacement mountings by the mounting assembly number to ensure the correct spacer.

2. Visual Inspection Of Installed Mountings

At each annual inspection and at FAA-required inspections of the aircraft's engines, all mounting assemblies should be visually inspected in their installed state while supporting the engine weight. The correct visual inspection procedure is as follows:

- Inspect all bonded sandwich mountings for metal-to-rubber bond separations, flex cracks, rubber deterioration due to exposure to fluids, and mechanical damage such as cuts in the rubber surface.
- Visually inspect all bonded steel parts for cracks and excessive nicks, scratches or gouges.
- Inspect all nut locking wires for looseness and tighten as necessary.
- When applicable, measure all drift indicators in each mounting assembly for excessive deflection.
- Whenever any of the conditions detailed above in steps a, b and d are found, remove the mounting assembly from the engine, disassemble, inspect and repair it as described in the maintenance manual.

CAUTION: WHENEVER THE AIRCRAFT'S ENGINES ARE CLEANED DURING A NORMAL INSPECTION, COVER EACH MOUNTING ASSEMBLY TO PROTECT IT FROM CONTAMINATION BY CLEANING FLUIDS OR SOLVENTS. THIS ALSO APPLIES TO ENGINE LUBRICANTS. SHOULD ANY SUCH MATERIALS ACCIDENTALLY GET ON A MOUNTING ASSEMBLY, WIPE IT OFF THOROUGHLY AS SOON AS POSSIBLE WITH A CLEAN, DRY RAG.

3. Disassembly

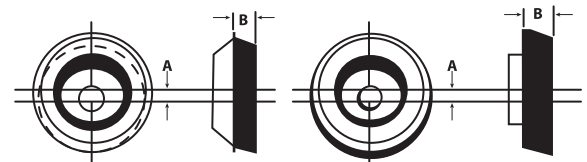
To remove mounting assemblies from the installation, it is necessary to remove the engine weight from the mountings, by the use of a chain hoist or equivalent, and disconnect the nuts and bolts which hold the mountings in place. In general, removal of one mounting at a time can usually be accomplished, if necessary, without removing the engine weight from the mountings.

4. Cleaning & Inspection

- Wipe oil and dirt from bonded mountings, but do not dip in cleaning solvents.
- Steel bolts and spacers should be inspected for cracks or damaged threads. Examine spacers for crushing of ends, caused by excessive tightening torque on bolt. Replace if either condition is apparent.
- Examine bonded rubber mounting for oil swelling, bond or rubber separation and shear or compression set. Bond separation, oil swelling or flex cracks in the surface of the rubber are cause for rejection. The effects of shear and compression set are determined by measuring the dimensions shown on the sketch. Reject parts which have an eccentricity greater than dimension "A" or an overall thickness less than dimension "B"

Mounting Series Number	Eccentricity Max. "A"	Thickness Min. "B"
J1552	0.05	0.29
J2245	0.06	0.45
J3049	0.07	0.71
J6113	0.05*	0.39
J7401	0.06	0.75
J7530	0.06*	0.75
J7649	0.06*	0.75
J7763	0.08	1.02
J8381	0.06	0.75
J9555	0.06*	0.75
J9612	0.08	1.22
J10533	0.10*	0.80
J10776	0.10*	1.01
J12165	0.20	1.00
J12397	0.20	0.86
J12454	0.20	1.30
J12799	0.20	1.28
J13051	0.23	1.40
J15199	0.40	1.60
J7763-34 (BTR-II)	0.14	1.02
J9612-30 (BTR-II)	0.14	1.20
J9612-32 (BTR-II)	0.12	1.20

*From original position (see installation drawing)



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LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.

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For a listing of our worldwide locations, visit LORD.com.

LORD® Fluid-Free Shimmy Dampers

The LORD® Fluid-Free Shimmy Damper offers high-performance damping with a maintenance free design. It uses surface-effect technology to provide consistent damping for nose gears. Instead of using fluids to resist motion, our Shimmy Damper features a unique rubber formulation with a high-tech lubricant to absorb nose wheel shimmy. Since there is no fluid, this damper will not leak.

Accelerated life testing of the LORD Shimmy Damper demonstrates that it performs in excess of 5,000 ground-air-ground duty cycles. This represents a product life of more than 10 years of usage on the typical high-use aircraft (fixed landing gear models only).

Just 10 to 20 drops of fluid leakage can cut the performance of a traditional, hydraulic damper in half. But, with the LORD Shimmy Damper, vibration control remains constant. Due to its surface effect design,

the Shimmy Damper's spring rate, force and energy dissipation can be precisely controlled over time and within a wide range of temperatures. This same patented technology has been proven with more than 10 years in the aerospace industry.

Features & Benefits

Valuable – Simple design provides high reliability and lowers operating costs.

Efficient – Simplicity of use (one-for-one replacement) and compatible with existing installation.

Reliable – Large diameter shaft increases durability and reduces wear of nose gear linkages. No performance degradation over time and use.

Versatile – Consistent damping from -30° to 150°F.

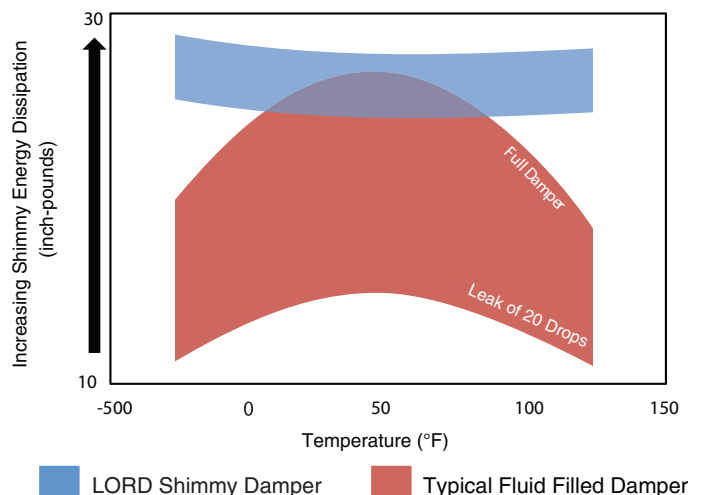


LORD Shimmy Damper

Surface-Effect Technology

The LORD Shimmy Damper utilizes surface-effect technology. LORD has replaced the hydraulic piston in the traditional damper with a fully-bonded rubber piston that presses out against the inner diameter of the housing. This rubber piston then rides on a very thin film of grease. The rubbing action between the piston and the housing provides the damping. Since there is no hydraulic fluid to leak out, you won't need to service the damper.

LORD Performance Advantage



LORD PRODUCT INFORMATION

Aircraft Applicability *(fixed landing gear models only)*

LORD PART NUMBER	AIRCRAFT APPLICABILITY	PMA SUPPLEMENT
SE-1051-2 Replaces Cessna P/N 0442512-1 and 0542119-1 for models listed	CESSNA 150G, H, J, K, L, M F150G, H, J, K, L, M, A150K, L, M, FA150K, L FRA150L, FRA150M 152 (ALL) 1978 thru 1985 (no letter designators) F152 (ALL) 1978 thru 1984 (no letter designators) A152 (ALL) 1978 thru 1985 (no letter designators) FA152 (ALL) 1978 thru 1984 (no letter designators) 172, 172 A, B, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S F172D, E, F, G, H, K, L, M, N, P P172D, FR172E, F, G, H, J (REIMS ROCKET) R172K, FR172K 175, 175A, B, C 182B, C, D	102
SE-1051-3 Replaces Cessna P/N 0442512-2 and 0542119-2 for models listed	CESSNA 150, 150A, B, C, D, E, F	67 Amendment 1
SE-1068-5 Replaces Cessna P/N 0743624-1 for models listed	CESSNA 182K, L, M, N, P, Q, R, S, T y T182T	91
SE-1069-3 Replaces Cessna P/N 0743624-2 for models listed	CESSNA 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, T182T 206H, U206B, U206C, U206D, U206E, U206F, U206G, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, TU206H, P206B, P206C, P206D, P206E 207, 207A, T207, T207A 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, T210K, T210L, T210M, T210N, P210N, P210R	83
SE-1070-7 Replaces Cessna P/N 2643090-3 for models listed	CESSNA C208, C208A, C208B	96
SE-1076-1 Replaces Hawker Beechcraft P/N(s): 35-825145, 35-825145-2, and 35-825145-6	HAWKER BEECHCRAFT 58P, 58TC 35-33, 35-A33, 35-C33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC 95-55, 95-A55, 95-B55, 95-C55, 95-C55A, G58, D55, D55A, E55, 58 35, A35, B35, C35, D35, E35, F35, G35	103
SE-1088-1	CESSNA CARDINAL 177, 177A, 177B	112
SE-1090-1 Replaces Cessna P/N 0842410-2 for models listed S/N 0001-0710 for 182 models	CESSNA 310, 310B, 310C, 310D, 310F, 310G, 310H, 310I, 310J, 310K, 310L, 310N, 310P, T310P, 310R, T310R, 320, 320A, 320B, 320C, 320D, 320E, 320F, 335, 340, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A, 414, 414A, 421, 421A, 421B, 421C, 425, 404, 406, 441, R182, TR182, FR182	104
SE-1508-1 Replaces Piper P/N 456-015 for models listed	PIPER PA-28 PA-28-140, PA-28-140B, PA-28-140C, PA-28-140D, PA-28-140E, PA-28-140 Cruiser, PA-28-150, PA-28-150B, PA-28-150C, PA-28-160, PA-28-160B, PA-28-160C, PA-28-180, PA-28-180B, PA-28-180C, PA-28-180D, PA-28-180E, PA-28-180F, PA-28-180G, PA-28-180 Challenger, PA-28-180 Archer, PA-28-181, PA-28-181 Archer II, PA-28-181, Archer III, PA-28-181 Archer LX	124
SE-1508-2 Replaces Piper P/N 456-015 for models listed	PIPER PA-28 PA-28-151, PA-28-161, PA-28-161 Warrior II, PA-28-161 Warrior III, PA-32-301 Saratoga, PA-32-301T Saratoga, PA-32-301XTC, PA-32-301FT 6X	124

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LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.

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