

**THE SIERRA SCHOOLS FOUNDATION
 SENIOR PROJECT DREAM BIG GRANT APPLICATION
 Due Friday, October 11, 2019**

Title of Senior Project:

School Site(s):

Auto Mechanics

LHS

Type of Project: **BOOTS: STEM (Science, Technology, Engineering, Math)**
 (Circle Type) Visual & Performing Arts
Career Development
 College Readiness

ROOTS: Outdoor Education
 Environmental Science
 Agricultural Science
 Rural Heritage

Name of Senior: Kayden Flanagan
 Phone: 530-493-4498
 Mailing Address: P.O. box 411
 E-mail Address: Kayden Kincaid12@gmail.com

Brief Description of Project: (Not to exceed 50 words)

I want to improve the engine, replace the bumper also the door.
 I want to have a professional help wrap my project with vinyl.

Grant Application must include (in this order):

- Completed cover sheet (this page)
- 1-2 page narrative (see Page 2 for narrative guidelines)
- A separate page with project budget (see Page 3), **not to exceed \$500**
- Attachments that validate the expenses for your project

Total Project Cost:

1625.16

Estimated start date:

11-1-19

Funding Requested (not to exceed \$500):

500

Estimated finish date:

March 2020

Name of Senior Project Mentor:

Evan Miner, Colin Bell

Mentor phone number and email address:

Evan 775-770-8154

How many pages are included in this application?

16

I understand that the Sierra Schools Foundation is not obligated to fund any or all of my Senior Project. I also understand that no funds will be remitted to me directly and that I must provide written receipts and/or invoices for any and all expenses prior to The Sierra Schools Foundation's payment.

Signature of Applicant:

Kayden

Date

10/16/19

Signatures of Senior Project Advisors

English teacher:

Pet Deyl

Date

10/10/19

Gov't/Econ teacher:

A Lovro

Date

BUDGET FORMAT GUIDELINES:

- A. Provide an **ITEMIZED** budget of this program/project.
- B. Attach **ALL** receipts, printouts, handouts, etc. that would validate your proposed budget needs.

Examples:

- If you want to take a class in ceramics, you would attach a copy of the webpage or a flyer that indicates the cost for the class, including the contact information.
- If you want to build a cabinet, you would attach a bid from a hardware store for all your expenses.
- If you wanted to organize a 3K/5K walk/run to benefit the American Cancer Society, you would attach various printouts of items you would need to organize the event, such as a banner, print shop expenses, water and food expenses, t-shirts, etc.

Attach your budget, using the following format:

Title of project/program Auto Mechanics see attached

Item	<u>receipts 1 set</u>	Cost	\$ <u>57</u>
Item	<u>A. T. ...</u>	Cost	\$ <u>...</u>
Item	_____	Cost	\$ _____
Tax		Cost	\$ _____
Shipping		Cost	\$ _____
Total cost of project			\$ _____
Other funding source (only if applicable)			\$ _____
Other funding source (only if applicable)			\$ _____
Total other funding sources		subtract \$	<u>0</u>
Total request from The SSF			\$ <u>500</u>

If you have any questions regarding this application please contact:

Megan Meschery at (530) 414-3655

Deep Engine Mechanics

My name is Kayden Flanagan and I am learning about deep engine mechanics for my senior project. The hands-on work that I will be doing is cylinder-head replacement, gasket replacement, fuel rail replacement, sensor replacement, timing belt and serpentine belt replacement, oil changing, suspension work, and body repair such as installing a new front end, bumper, and door. In summary, I will be doing engine work, suspension work, bodywork, and break work.

The two engine parts that I am including in my grant are the cylinder and the air intake. The air intake manifold connects to the backside of the cylinder head and allows an amount of air to be sucked into the engine to create compression. The reason I am in need of the cylinder head is because all the valves are bent in the one I have because of the previous owner. The current air intake needs replacing because it is too large and it is letting in too much air.

I have two mentors; Collin Bell, who is a certified auto-mechanic, and Evan Miner. I have worked with Collin in the past. He has helped me understand the basics of how an engine works, about suspensions, and breaks. Evan is a family member who knows engine work better than most mechanics, and he is a very reliable source.

My budget research for my project includes using the Internet for price comparisons, including EBay and AutoZone. Because my car is an older one, I was most successful with EBay at getting inexpensive parts. I will be using money that I've earned for the remainder of the parts.

I choose this project because I want to do this type of work in the future. Also, learning to fix my car will make me more self-reliant, and I won't have to pay someone a lot of money to work on my car.

I am excited about the possibility of learning about engine repair because I love all things about cars. I love car meets, car races, and car show competitions. I hope to learn a lot about automotive engines and for it to take me far in life.

Hello, my name is Evan Miner. I am 32 years old. I graduated from Portola High School back in 2006. Shortly after high school, I worked in auto mechanics and worked with oil refining. I have been working with oil refinery for 10 years.

I have been working on cars since I was thirteen years old. I will be helping Kayden with his 20 hours, working on his project car and sponsoring him.

Thank you,

Evan

CAR PARTS COST ESTIMATE

Cold Air Intake	\$320.99
Cylinder Head:	\$279.00
Gasket:	\$52.28
Fuel Rail	\$3.26
Sensors	\$378.99
Timing Belt	\$96.99
Serpentine Belt	\$32.99
Oil Filter	\$8.99
Front End	\$58.07
Front Bumper	\$78.33
Door	\$297.27

TOTAL COST OF PROJECT: \$1625.16

OTHER FUNDING: Me

TOTAL REQUEST FROM SSF: \$500

Internet #308141350 Model # AEM-21-436C



Please tell us more about your vehicle to ensure perfect fit.

Use our car picker tool to select your vehicle.

Select Vehicle

AEM >
Cold Air Intake System C.A.S. MITS
LANCER RALLIART 2.4L 04-05, M/T

Write the first Review Ask the first question

\$320⁹⁹

OR

\$54⁰⁰ per month* suggested payments with
6 months* financing on this \$320.99 purchase*

Apply for a Home Depot Consumer Card

Feedback

Hi! Sign in or register

Daily Deals

Brand Outlet

Help & Contact

TGIF! Get Hot
\$5 Deals All Day

Sell

ebay

Shop by category

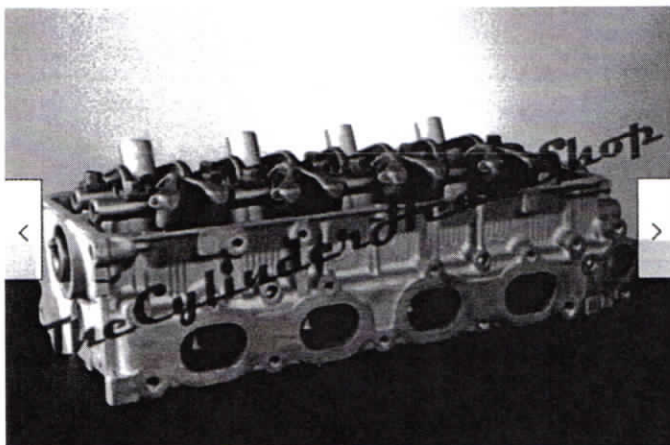
Search for anything

Back to search results | Listed in category: eBay Motors > Parts & Accessories > Car & Truck Parts > Engines & Components > Cylinder Heads & Parts > See more 2.4 Mitsubishi SOHC 4g64 GALANT Eclipse Expo D...



Check if this part fits your vehicle

Contact the seller



2.4 MITSUBISHI SOHC 4G64 GALANT ECI EXPO OUTLANDER CYLINDER HEAD CASTING #G6

1993 - 2005 -- COMPLETE AS PICTURED - 1 YEAR WARRANTY

★★★★★ Be the first to write a review.

Condition: **Remanufactured**

Quantity: 7 available / 1 sold

Price: **US \$279.00**

Buy It Now

Add to cart

♥ Add to Watchlist

- 1-year protection plan from SquareTrade - \$49.99
- 10 minute call for repair assistance with a certified technician - \$14.95

Longtime member

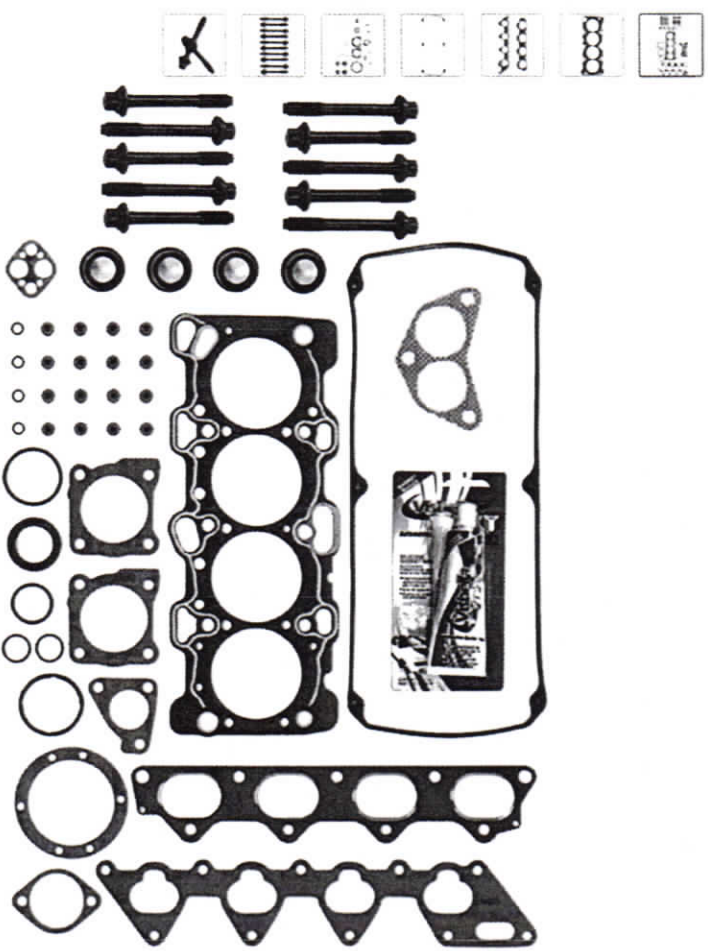
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Returns accepted

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To creat
address
agree to



Fits 93-99 Mitsubishi Galant 2.4 4G64 Head Gasket Set+Bolts

by Domestic Gaskets

★★★★★ 1 rating

Price: \$52.28 & FREE Shipping

Get \$70 off instantly: Pay \$0.00 ~~\$52.28~~ upon approval for the Amazon Prime Rewards Visa Card. No annual fee.

Note: Not eligible for Amazon Prime.

- Increasing torque and performance with decreasing consumption and emissions
- Withstand high and low temperatures to provide a reliable seal with minimal tightening
- Durable and Long-lasting withstand aggressive media, higher temperatures, lower component strength and higher deformation under mechanical stress
- Reducing the flow of oil through the cylinder-head into the combustion chamber
- Please see description details below to ensure the fitment
- › See more product details

Compare with similar items

New (1) from \$52.28 & FREE shipping.

Report incorrect product information.

\$52.28
& FREE Shipping

Arrives: **Oct 18 - 24**

Fastest delivery: **Wed, Oct 16**

📍 Deliver to Katherine - Loyalton 96118

In Stock.

Qty: 1 ▼

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Buy Now

Ships from and sold by Domestic Gaskets.

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Fel-Pro®
Fuel Injector O-Ring Kit

★★★★★ 0 | **VEHICLE SPECIFIC** | #mpn1352140

Mitsubishi Lancer 2.0L / 2.4L 2004, Fuel Injector O-Ring Kit by Fel-Pro®. If you are looking for quality sealing solutions, Fel-Pro offers you various replacement products from seals and bolts to O-Rings and dowel pins. Engineered using...

- Direct OEM replacement for a proper fit

\$3.26

VIEW DE



Bosch - Oxygen Sensor (Part No. 15592)

[Description](#)

from **\$378.99**

[VIEW PRODUCT](#)

Compare



FREE NEXT DAY 

Vehicle Specific

Duralast/Dayco Mechanical
Water Pump WP332K1A

Price: **\$255.99**

CHECK THE FIT ▶

★★★★★ (0)


Part Number: WP332K1A

Warranty: Limited Lifetime

Notes: Interference engine
Kit Includes: Water Pump, Timing
Belt, Balance Shaft Belt,
Hydraulic Actuator, Camshaft
Belt ...

Store Pick Up
Order in Store

[See Store\(s\) With Item](#)

Ship To Home
In Stock | Next Day
Eligible 

ADD TO CART ▶

2004 Mitsubishi Lancer Cooling, Heating And Climate Control

2004 Mitsubishi Lancer Engine Cooling

2004 Mitsubishi Lancer Belt

Narrow Your Results

Brand

- ACDelco (2)
- Continental Serp (4)
- Duralast Serpentine (5)
- Valucraft Serpentine (4)

Related Parts:

- A/C Compressor Bypass Pulley
- Belt Tensioner
- Idle Pulley
- Water Pump
- Water Pump Housing

Related Products:

Hand Cleaner

Show of 15 Results

COMPARE ITEMS

Compare Item

Compare Item

Compare Item



FREE NEXT DAY

Vehicle Specific

Continental Serpentine Belt
4060740

Price: **\$32.99**

CHECK THE FIT



FREE NEXT DAY

Vehicle Specific

Continental Serpentine Belt
4060705

Price: **\$38.99**

CHECK THE FIT



FREE NEXT DAY

Vehicle Specific

Continental Serpentine Belt
4040305

Price: **\$24.99**

CHECK THE FIT

Vehicle Specific Products (831)

Show 12 of 831 R

Brand

- ACDelco (52)
- aFe (41)
- Bosch (62)
- Fram (205)
- K & N Pro-Series (47)

[Show All](#)

Related Parts:

- Air Filter
- Breather Filter
- Cabin Air Filter
- Fuel Filter
- PCV Valve
- Repair Manual - Vehicle
- Transmission Filter (A/T)

Related Products:

- Oil Filter Wrench



FREE NEXT DAY 
Vehicle Specific

STP Extended Life Oil Filter S6607XL

Price: **\$8.99**

\$ SAVE NOW - See Details

CHECK THE FIT ▶



Shop Mitsubishi Lancer



**Mitsubishi Lancer Front
Passenger Side Axle Assembly -
New**

SKU No.:DSS9616N

☆☆☆☆☆ (0 reviews)

\$58.07

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Fit the following Mitsubishi

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SK

\$5

Fit



Replace®
Front Bumper Cover

★ ★ ★ ★ ★ 0 | **VEHICLE SPECIFIC** | # 1514662485

Mitsubishi Lancer ES / LS / OZ Rally 2004, Front Bumper Cover by Replace®. Bumper Comes Primed – Ready To Paint. Replace bumper covers will come in handy if you need to replace your scratched, dinged, or collision damaged cover to...

- Same quality as OE for less money
- Designed with the latest software and manufactured with modern tooling

\$78.33

VIEW DETAILS

1 | MAKE
 Mitsubishi

2 | MODEL

PRICE

- < 50
- 50-100
- 100-300
- 300-500
- 500-700
- 700-900
- 900-1100
- 1100-1300
- 1300-1500
- 1500 & More

\$ Min \$ Max

GO



TruParts®
 Front Passenger Side Door Shell (M11301103)

★★★★★ 0

\$297.27

Sherman®
 Door Skin F

★★★★★

\$21.36