## DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in ${ }^{22}$. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies that are not listed, describe and report them in the "Cost of all other materials ..." at the end of this section. If you consumed less than $\$ 25,000$ of a listed material, include the value with "Cost of all other materials . . " Census material code 009700998.
Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.
If quantities are requested, please use the unit of measure specified.
If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.
Valuation of Materials Consumed - The value of the materials, etc., consumed sho ld b ba en the delivered cost; i.e., the amount paid or payable after discounts and including frgig a d d ether dect chages incurred in acquiring the materials.

 the cost of purchases or transfe s. However, if consumptiondil $\varepsilon$ ss ghifica pil from the amounts purchased or transferred, these amounts should be adjusted fon nges n the terials and supplies inventories by adding the beginning inventory to the amount purctinsed (r tr) ns (errealapdrubtracting ending inventory.
Contract Work - Include $a$ m (ria): consunechose you purchased for use by others making products for you under contract. Amounts pa d ty) keompanies doing the contract work should be reported in (15, line A5, and should include freight in and out. OHt the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.
Resales - Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in 15, line A2, not in (16. The value of these products shipped by this establishment should be reported in 22 under Census product code 00099989006 , "Resales."

|  | Materials, parts, and supplies |  | Census material code | Consumption of purchased materials and of materials received from other establishments of your company |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cost, including delivery cost (freight-in) |
|  |  |  | $\begin{aligned} & \hline \text { \$ Bil. } \\ & \hline 0631 \end{aligned}$ | Mil. | Thou. |
| 1 | Components for electronic circuitry, excluding tubes <br> Printed circuit boards <br> Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components) <br> Semiconductors, including transistors, diodes, rectifiers, and integrated circuits <br> Capacitors . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . <br> Resistors <br> Other components and accessories, nec (Specify kind.) $\qquad$ $\qquad$ $\qquad$ <br> Current-carrying wiring devices <br> Fractional horsepower electric motors (less than 1 hp ) |  |  | 334412004 |  |  |  |
| 2 |  |  | 001900 C4 9 |  |  |  |
| 3 |  |  | 334413002 |  |  |  |
| 4 |  |  | 334414000 |  |  |  |
| 5 |  |  | 334415007 |  |  |  |
| 6 |  |  | 001900 D3 0 |  |  |  |
| 7 |  |  | 335931010 |  |  |  |
| 8 |  |  | 335312112 |  |  |  |

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

| $\stackrel{\circ}{2}$$\stackrel{0}{\leftrightharpoons}$ | Materials, parts, and supplies | Census material code | Consumption of purchased materials and of materials received from other establishments of your company |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cost, including delivery cost (freight-in) |  |  |
|  |  |  | \$ Bil. | Mil. | Thou. |
|  |  | 0630 | 0631 |  |  |
| 9 | Electronic communication equipment <br> Electrical transmission, distribution, and control equipment | 334220019 |  |  |  |
| 10 |  | 001900 B1 6 |  |  |  |
| 11 | Electronic computing equipment <br> Electrical instrument mechanisms and meter movements (including instrument relays) | 334100013 |  |  |  |
| 12 |  | 334515012 |  |  |  |
| 13 | Electrical measuring instruments and parts, not listed elsewhere . . . . . . | 334515038 |  |  |  |
| 14 | Insulated wire and cable, including magnet wire <br> Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and other shapes | 331000 A7 4 |  |  |  |
| 15 |  | 325211050 |  |  |  |
| 16 | Fabricated plastics products (excluding gaskets, hoses, and belting) <br> Paper and paperboard containers, including shipping sacks and other paper packaging supplies | 326100070 |  |  |  |
| 17 |  | 322200171 |  |  |  |
| 18 | Sheet metal products (excluding stampings) <br> Bolts, nuts, screws, rivets, washers, and screw machine products | 332000 A9 9 |  |  |  |
| 19 |  | 332722032 |  |  |  |
| 20 | Metal stampings <br> Other fabricated metal products | 332000 AC 2 |  |  |  |
| 21 |  | 332000 AE 7 |  |  |  |
| 22 | Forgings . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 332100015 |  |  |  |
| 23 | Castings (rough and semifinished) <br> Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) | 331000356 |  |  |  |
| 24 |  | 331000398 |  |  |  |
| 25 | Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) | 331421115 |  |  |  |
| 26 | Steel shapes and forms (excluding castings, forgings, and fabricated metal products) | 331200014 |  |  |  |
| 27 | Metal shapes and forms (excluding castings, forgings, and fabricated metal products) | 331000331 |  |  |  |
| 28 | Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) | 331000836 |  |  |  |
| 29 | Liquid crystal display screens (LCD), including LED | 334419009 |  |  |  |

## 16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued



## DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

General - The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of 23. PLEASE DO NOT COMBINE PRODUCT LINES.
If quantities are requested, please use the unit of measure specified.
If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.
Valuation of Products - Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.
Contract Work - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific product lines as if they were made by you in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" for printed circuit boards under Census code 0009300031 3, printed circuit assemblies under Census code 0009300032 1, and all other contract work receipts under Census code 00093000149.
Resales - Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census code 0009998900 6, "Resales."
Detailed Data Reported Elsewhere - Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR form, the sum of the detailed products should equal the total reported on this form.
NOTE: Only totals are requested; do not duplicate detail reported on the CIR.

## If not shown, please enter your 11-digit Census File

 Number (CFN) from the mailing address.DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued


DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

| $\begin{aligned} & \dot{0} \\ & \underset{\sim}{Z} \end{aligned}$ | Products and services <br> *Items correspond to products reported on Current Industrial Reports (CIR) | Census product code | Products shipped and other receipts |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Value, f.o.b. plant |  |  |
|  |  |  | \$ Bil. | Mil. | Thou. |
|  |  | 0730 | 0731 |  |  |
| 15 | Sighting, tracking, and fire-control equipment, optical-type (Corresponds to the value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 8379-8391.)* <br> Binoculars and astronomical instruments (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 8211-8215.)* <br> Other optical instruments and lenses (except sighting, tracking, and firecontrol) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 8221 8245.)* | 33331411000 |  |  |  |
| 16 |  | 33331431107 |  |  |  |
| 17 |  | 33331432303 |  |  |  |
|  | Measuring and controlling devices, nec |  |  |  |  |
| 18 | Aircraft engine instruments, except flight (except chronometers) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 6101 6119.)* | 33451911102 |  |  |  |
| 19 | Chronometers <br> Physical properties testing and inspection equipment and kinematic testing and measuring equipment (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 6201-6218.)* | 33451911201 |  |  |  |
| 20 |  | 33451931001 |  |  |  |
| 21 | Water leak detectors <br> Nuclear radiation, detection, and monitoring instruments (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 7001-7039.)* | 33399989921 |  |  |  |
| 22 |  | 33451951009 |  |  |  |
| 23 | Commercial, geophysical, meterological, and general-purpose instruments and equipment (except medical thermometers) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 6601-6655.)* | 33451971007 |  |  |  |
| 24 | Surveying and drafting instruments and apparatus, including photogrammetric equipment (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 4551-4561.)* | 33451991005 |  |  |  |
| 25 | Aeronautical, nautical, and navigational instruments, not sending or receiving radio signals, except engine instruments (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 4420-4518.)* | 33451111000 |  |  |  |
| 26 | Search and detection and navigation and guidance systems and equipment (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)* | 33451131008 |  |  |  |
| 27 | Relays for electronic circuitry, industrial control overload, and switchgear type (Corresponds to value of shipments reported on CIR Form MA335A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 2002, item codes 5400-5496.)* | 33531411008 |  |  |  |

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

| $\begin{aligned} & \stackrel{\circ}{2} \\ & \stackrel{\otimes}{\Xi} \end{aligned}$ | Products and services <br> *Items correspond to products reported on Current Industrial Reports (CIR) | Census product code | Products shipped and other receipts |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Value, f.o.b. plant |  |  |
|  |  |  | \$ Bil. | Mil. | Thou. |
|  |  | 0730 | 0731 |  |  |
|  | Relays and industrial controls <br> Specific-purpose industrial controls (Corresponds to value of shipments as reported on CIR Form MA335A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 2002, item codes 6101-6355.)* <br> General-purpose industrial controls (Corresponds to the value of shipments reported on CIR Form MA335A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 2002, item codes 6402 6509.)* |  |  |  |  |
| 28 |  | 33531431006 |  |  |  |
| 29 |  | 33531451004 |  |  |  |
| 30 | Parts for industrial controls and motor-control accessories (Corresponds to value of shipments reported on CIR Form MA335A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 2002)* | 33531471002 |  |  |  |
| 31 | Printed circuit (wiring) boards or assemblies (Report contract work receipts for work done by you for others on their own materials on lines 52 and 53.) <br> Printed circuit (wiring) boards (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)* | 33441201002 |  |  |  |
| 32 |  | 334418 A100 8 |  |  |  |
| 33 | Electronic components, nec <br> Crystals, filters, piezoelectric, and other related electronic devices, except microwave filters (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)* | 33441911006 |  |  |  |
| 34 | Transducers, electrical-electronic, input or output (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)* <br> Switches for electronic circuitry (mechanical) (Corresponds to value of shipments reported on CIR Form MA3340, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)* | 33441941003 |  |  |  |
| 35 |  | 33441971000 |  |  |  |
| 36 | Microwave components and devices, except antennae, tubes, and semiconductors (Corresponds to the value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards and Other Electronic Components, for 2002.)* | 33422071002 |  |  |  |
| 37 | Electronic teaching machines, teaching aids, trainers, and simulators, including kits (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)* | 33331971003 |  |  |  |
| 38 | Communication systems and equipment (excluding broadcast; including space satellite borne and mobile telephone communications equipment) (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, for 2002)* | 33422011008 |  |  |  |
| 39 | Irradiation (ionizing radiation) equipment, including $X$ ray, beta ray, gamma ray, and nuclear (medical, dental, industrial, and scientific) (Corresponds to value of shipments reported on CIR Form MA334S, Electromedical and Irradiation Equipment, for 2002.)* | 33451701008 |  |  |  |

DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued


| If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued |  |  |  |  |  |
|  | Products and services <br> *Items correspond to products reported on Current Industrial Reports (CIR) |  | Products shipped and other receipts |  |  |
|  |  |  | Value, f.o.b. plant |  |  |
|  |  |  | \$ Bil. | Mil. | Thou. |
|  |  |  | 0731 |  |  |
|  | Miscellaneous receipts <br> Receipts for research and developmental work <br> Receipts for repair work (maintenance) <br> Sales of scrap, refuse, and other miscellaneous receipts <br> Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in (15, line A2.) <br> TOTAL (Should equal 4, line A) |  |  |  |  |
| 55 |  |  |  |  |  |
| 56 |  |  |  |  |  |
| 57 |  |  |  |  |  |
| 58 |  |  |  |  |  |
| 59 |  |  |  |  |  |

A. Indicate activities that were performed by this establishment or were performed for this establishment by another company during 2002.
(Mark "X" ALL that apply.)

1. Product design/engineering
2. Order fulfillment
a. Bundling or kitting (combining multiple items into a prepackaged product)
b. Pick and pack (taking goods from inventory and packaging them to fill orders).
c. Warehousing of finished products
d. Breaking bulk (reducing large shipments into smaller portions for customers)
e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas)
f. Long distance delivery (beyond local areas and commercial zones).
g. Processing of returned merchandise
.

| This activity was performed - |  |  |  |
| :---: | :---: | :---: | :---: |
| By this establishment | By another establishment of this company | By another company | Not at all |
| ${ }^{0} 921 \square$ | ${ }_{8071} \square$ | $0941 \square$ | ${ }^{0} 961 \square$ |
| ${ }_{0} 0923$ | ${ }_{8072} \square$ | $0943 \square$ | $0963 \quad \square$ |
| $0924 \square$ | ${ }_{8073} \square$ | $0944 \square$ | $0964 \quad \square$ |
| ${ }_{0} 025 \square$ | ${ }_{8074} \square$ | $0945 \square$ | $0965 \square$ |
| ${ }_{0} 0926 \square$ | ${ }_{8075} \square$ | $0946 \square$ | $0966 \square$ |
| ${ }_{0} 0927$ | ${ }_{8076} \square$ | $0947 \square$ | $0967 \quad \square$ |
| ${ }_{0} 0928$ | ${ }_{8077} \square$ | $0948 \quad \square$ | $0968 \quad \square$ |
| ${ }_{0} 0932 \square$ | ${ }_{8078} \square$ | $0952 \square$ | $0972 \square$ |

B. During 2002 did this establishment:

1. Manage inventory owned by this establishment AND held at this location?


If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

OPERATIONAL STATUS
Activity that best describes this establishment's status at the end of 2002
(Mark "X" only ONE box.)

0011
$\square$ In operation
0013Temporarily or seasonally inactive

0012Under construction, 0014 development, or exploration

 Ceased operation - Give date at right $\longrightarrow$ 0018 | Month | Day | Year |
| :--- | :--- | :--- |
|  |  |  | 0015



Sold or leased to another operator - $\qquad$ Give date at right AND enter new name and mailing address below $\nabla$


Remarks (Please use this space for any explanations that may be essential in understanding your reported data.)

CERTIFICATION - This report is substantially accurate and was prepared in accordance with the instructions.


Thank you for completing your 2002 Economic Census form.

