FUNCTIONAL GROUPING CODES:

COMBAT, TACTICAL, AND SUPPORT VEHICLES AND SPECIAL PURPOSE EQUIPMENT

This copy is a reprint which includes current pages from Change 5.

HEADQUARTERS, DEPARTMENT OF THE ARMY
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DEPARTMENT OF THE ARMY SUPPLY BULLETIN

FUNCTIONAL GROUPING CODES COMBAT, TACTICAL, AND SUPPORT VEHICLES AND SPECIAL PURPOSE EQUIPMENT

Headquarters, Department of the Army, Washington, DC
27 June 1983

TB 750-93-1, 2 May 1968, is changed as follows:

Page 3, paragraph 6  The following group headings are changed to read:

08 Transfer, Final Drive, Planetary and Drop Gear Box Assemblies
09 Propeller, Propeller Shafts, Universal Joints, Coupler and Clamp Assembly
15 Frame, Towing Attachments, Drawbars and Articulation Systems
22 Body, Chassis and Hull Accessory Items
24 Hydraulic and Fluid Systems (Exclude systems and/or components located in other groups)
43 Gas, Air, and Vacuum Systems (Exclude brake system and/or systems/components located in other related groups)
52 Refrigeration, Air Conditioner/Heater and Air Conditioning Components
58 Sanitation and Fumigation Components (Also see Group 91)
62 Illuminating Equipment (Other than Electrical) (For electrical see Group 39)

Page 4, paragraph 6  The following group heading is changed to read:

84 Nuclear Power Plants

Page 7, Group 07  Transmission. The following subgroup information is changed to read:

NOTE
The following sub-groups, 0700 thru 0707, are for mechanical transmissions only, except for group 0705 which is applicable to all transmissions.

0705 Transmission Shifting Components: Include functional components located in the vehicle or on the transmission. Include hydraulic, air, and/or vacuum tubing and controls and all electrical contacts, switches, relays, connectors, and wiring directly associated with the transmission selection or shifting mechanism. List in-vehicle shift or selector levers: linkages and arms, and cantilevers and bell cranks used for selection or shifting.

0710 Transmission Assembly (Hydraulic), (Hydro-Static), (Torquamatic), (Cross-drive), and Associated Parts:

Include input shaft, bearings, gears, intermediate planetary units, low planetary unit, reverse planetary unit, high planetary unit, high & low splitter planetary unit, out-put shaft, bearings and gears, parking brake, housing, covers, gaskets, mounts, lifting eyes, and plugs, etc. (To include torque converter and/or associated components when integral part of transmission)

0801 Power Transfer, Final Drive, Planetary or Drop Gear Box Assemblies.

Include cases, housing, carriers, caps, covers, input shafts, idler shafts, reduction gear shafts, transfer gear shafts, output shafts, main power shafts, power take-off shafts, countershafts, gasket sets, gaskets, shim sets, gears, gear clusters, bearings, retainers, spacers, seals, planetary units, final drives, mountings, brackets, breathers, filler pipes, plugs, pinions, balancing units and attaching parts, etc.

Page 8, paragraph 7  The following subgroup heading is changed to read:

0804 Lubrication, Cooling or Hydraulic Components and Servo Units.

Paragraph 7  Delete subgroup 0806 Servo Units

Paragraph 7  The following group and subgroup is changed to read:

0900 PROPELLER, PROPELLER SHAFTS, UNIVERAL JOINTS, COUPLER AND CLAMP ASSEMBLY

0901 Propeller Shafts:

Include universal joints, pillow blocks, bearings, couplers and clamp assemblies, etc. (From power unit to functional unit.)

Page 10, paragraph 7  The following group and subgroup is changed to read:

15 FRAME, TOWING ATTACHMENTS, DRAWBARS, AND ARTICULATION SYSTEMS

1503 Pintles and Towing Attachments:

Includes drawbars, lunettes, articulation joint assemblies, etc.

*This change supersedes C4, 21 September 1976.
The following subgroups are changed to read:

1802 Fenders, Running Boards with Mounting and Attaching Parts, Outriggers, Windshield, Glass, Etc. Exclude Items in Group 21

1812 Special Purpose Bodies:
Include medical van, shop van, wrecker, rolling wheel type liquid transporter, power receptacles, post hole digger, telephone maintenance, heating units (other than personnel or winterization heaters), etc., and all parts peculiar to special bodies.

The following group and subgroup are changed to read:

22 BODY, CHASSIS, AND HULL ACCESSORY ITEMS

2202 ACCESSORY ITEMS: Include mirrors, reflectors, defrosters, wipers, horns, intercom devices, personnel heaters and mounted accessories, including all components. (Do not reference components to other indexes.) Include fuel, water, air, gas, or liquid transfer hose assemblies, etc., when mounted on cable reels and unmouted accessories such as hoses or cables externally connected and readily coupled or uncoupled, etc.

The following subgroup is changed to read:

3401 Primary Armament:
Include repair parts for guns, howitzers, mortars, launchers, recoilless rifles, related mounts, coaxial machine gun mounts, remote gun stations, manual or automatic loaders and main gun scavenging system.

The following groups and subgroups are added:

31 BASIC ISSUE ITEMS, MANUFACTURER INSTALLED
3100 Basic Issue Items, Manufacturer or Depot Installed. (This group to be used for identification and initial provisioning purposes only.)

32 BASIC ISSUE ITEMS, TROOP INSTALLED
3200 Basic Issue Items, Troop Installed or Authorized. (This group to be used for identification and initial provisioning purposes only.)

The following subgroup is changed to read:

3401 Primary Armament:
Include repair parts for guns, howitzers, mortars, launchers, recoilless rifles, related mounts, coaxial machine gun mounts, remote gun stations, manual or automatic loaders and main gun scavenging system.

Group 24 is superseded as follows:

24 HYDRAULIC AND FLUID SYSTEMS (Exclude systems and/or components located in other groups)

NOTE
For hydraulic steering system, refer to Group 14 2400 Hydraulic and Fluids Systems (Complete Assembly)

(Insert applicable nomenclature, and use following Indexes for subassembly breakdown)

2401 Pump and Motor:
Include pump drive, pump drive universal joint, motor, accumulator, etc.

2402 Manifold and/or Control Valves:
Include relief valves, check valves, regulating feed valves and mounting parts, etc.

2403 Hydraulic Controls and/or Manual Controls:
Include linkage, hydraulic clutch controls and accumulators, etc.

2404 Tilt Cylinders and Tilt Crank
2405 Mast Column:
Include lift cylinder, lift carriage forks, lift chain, etc.

2406 Strainers, Filters, Lines and Fittings, etc.
2407 Hydraulic Cylinders.
2408 Liquid Tanks or Reservoirs.

The following groups and subgroups are added:

31 BASIC ISSUE ITEMS, MANUFACTURER INSTALLED
3100 Basic Issue Items, Manufacturer or Depot Installed. (This group to be used for identification and initial provisioning purposes only.)

43 GAS, AIR, AND VACUUM SYSTEMS (Exclude Brake System) Delete Functional Groups 4300 thru 4309

4315 Gas, Air, or Vacuum System:
Include tent, shelter, or balloon inflaters, etc.

4316 Assembled Hose, Fitting, Liners, Breathers, Filters and Traps:
(For accessory hose, see Group 22)

4317 Manifold and/or Control Valves:
Include relief valves, relay valves, check valves, mounting parts, etc.

4318 Cylinders Assemblies:
Include diaphragms, chambers, cylinders, etc.

4319 Pumps and Pump Drives: (For compressor units, see Group 50)

4320 Manual Controls:
Include linkage.

4321 Tanks or Reservoirs
4322 Air Flotation System:
For flotable vehicles

4323 Air Pressurization System:
For vehicles equipped with front axle steering knuckle boot.

Add the following subgroup:

4325 Equipment Component Vent System Include hoses, lines, fittings, valves, manifolds, filters, etc. (Exclude breather and relief valves that are not a part of the common vent system, or located in the component related groups/subgroups.

Group 5 is superseded as follows:

52 REFRIGERATION, AIR CONDITIONER HEATER, AND AIR CONDITIONING COMPONENTS
5200 Air conditioner/heater assembly and gas compressor assembly.

The following group is added:

90 MAINTENANCE AND OPERATING SUPPLIES:
Include petroleum products, minerals, chemicals, gages, abrasives, etc., required for operation and maintenance of the equipment.
By Order of the Secretary of the Army:

E. C. MEYER
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

Distribution:
To be distributed in accordance with DA Form 12-38, Organizational Maintenance requirements for 1/4-Ton Truck Utility: 1/4 Ton, 4x4, M151, Al & A2 Utility w/106mm Recoilless Rifle: M151A1C; M825 Ambulance: M718 & A1, one copy to each account.
FUNCTIONAL GROUPING CODES:
COMBAT, TACTICAL, AND SUPPORT VEHICLES
AND SPECIAL PURPOSE EQUIPMENT

Section I. GENERAL

1. Purpose. This bulletin provides Functional Grouping Codes to identify items of materiel for combat, tactical, and support vehicles and special purpose equipment. These codes will be used as identifying elements in Department of the Army equipment publications for the identification of materiel on which inspection, maintenance and/or service is required. Their use is intended primarily for repair parts list and maintenance allocation charts.

2. Scope. The functional group codes are applicable to all equipments logistically assigned to elements of the ITS, Army Materiel Command. They include items such as combat, tactical, and special purpose vehicles, mapping and geodesic equipment, electric power generation equipment, construction and services equipment, barrier equipment (including mine warfare and demolition), bridging and stream crossing equipment, petroleum handling and dispensing equipment, general support equipment and supplies (fire fighting, industrial engines, heating and air conditioning, water purification, materials handling, woodworking field and garrison), CBR equipment, and other similar items.

3. Definitions. The following definitions apply to terms used in this bulletin:

   a. Component. A group of physically connected assemblies and/or parts which are capable of independent operation or may be externally controlled and may derive their power from another source. When combined with other components, assemblies, and/or parts, they form a subsystem or end item.

   b. Functional Group Code. A standardized system to index materiel for ready identification. The basic or two-digit code identifies the major assembly, and the next two digits identify the subassembly and/or part within the major assembly.

This publication supersedes TB750-93-1, dated 16 July 1964, including all Changes.

AGO 9883A
Example: Code 01 identifies an engine assembly and Code 0102 identifies the crankshaft and related parts within the engine assembly.

4. General. The grouping of items is functional insofar as practicable. Only a minor portion of the groupings are based on location or application for reasons considered unavoidable. It is essential that such groupings be kept to an absolute minimum. The use of miscellaneous categories has been avoided wherever possible. In establishing the basic groups (two-digit numbers), the grouping previously used by former technical services has been followed as closely as possible. By this method, the various groups such as 01-Engine, 07-Transmission, 12-Brakes, etc., are standardized and will be universally recognized by the man in the field, regardless of the branch of service. Due to the diversity of equipment, other basic groups have been added, some of which apply to items which are peculiar to individual equipment of the former technical services.

5. Instructions. a. When the title of a respective group includes several items, select only those items for the final title which apply to the equipment being covered.

b. Additional unspecified items may belong in any given group, if functionally associated with the item names or if they are merely different names of the same parts.

c. The subgroups following each respective group in the index are considered adequate, and change will not be made without prior approval. Request for additions will be forwarded on DA Form 2028 directly to Commanding General, U.S. Army Tank Automotive Command, ATTN: AMSTA-TP, Warren, Mich. 48090.

d. Where a main or subgroup covers several variations of like equipment, the insertion of the item name in lieu of the words "Major Assemblage" is intended. In the subgroup entries following these insertions, only those applicable to the inserted name will be used for coverage of the major assemblage breakdown.

e. The descriptive nomenclature following many of the functional group codes uses the phrase "et cetera (etc)." This is intended to cover any items or accessories that are not otherwise specifically listed therein, which normally would belong under that index title. It is also intended to cover future items that may come into the Army Materiel Command area of responsibility and minimize requests for minor changes to the functional group codes. Addition to descriptive nomenclature may be made at the discretion of the user upon the introduction of materiel not previously covered. The added materiel must be functionally related to the subgroup. In this case, prior approval is not required, since the numerical designators are not affected.
### Section II. COMPONENT FUNCTIONAL GROUP CODE NUMBERING SYSTEM


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<td>45</td>
<td>Office Machinery, Equipment, and Furniture (Include household furniture)</td>
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<td>Steam Boilers, Water Heaters, Heating Units, Burners (Exclude heaters in groups 22, 33, and 59)</td>
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<td>61</td>
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<td>63</td>
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<td>65</td>
<td>Reproduction Equipment Components</td>
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<tr>
<td>67</td>
<td>Precision Instruments and Systems, Mechanical, Electrical, or Electronic (See group 34 for fire control) (See group 34 for fire control)</td>
</tr>
</tbody>
</table>
7. Component Functional Group Codes.

01 ENGINE
0100 Engine Assembly:
Internal combustion (Starting engine included) attaching parts, mounting, lifting eyes, brackets, gasket sets, when supplied by the manufacturer, etc., for diesel engines as well as starting engines will be listed in this group.

Note. For Gas or Steam Turbine engines, group 0120 through 0127

0101 Crankcase, Block, Cylinder Head:
Include cylinders and cylinder sleeves when applicable. (Include core and expansion plugs.) List housings, side plates, covers, etc., in groups with which they are associated.

0102 Crankshaft:
Include bearings, balancers or dampers, drive pulleys when on crankshaft, crankcase, oil slingers, thrust washers, oil seals, and miscellaneous hardware.

0103 Flywheel Assembly:
Include ring gear, rear end plate housing, and miscellaneous parts, etc.

0104 Pistons, Connecting Rods:
Include bearings, pins, rings, retainers, etc.

0105 Valves, Camshafts, and Timing System:
Include rocker arm, push rods, shafts, lifters, springs, guides, seats, covers, gaskets, adjusting screws, tappets, bearings, cam rings, thrust washers, camshaft drive, timing gears, chains, sprockets, etc.

0106 Engine Lubrication System:
Include oil pumps, scavenger pumps, relief valves, oil filters, oil coolers, pressure regulators, breathers, fillers, oil pan, gaskets, tanks, lines, fittings, level gages, oil temperature controls, etc.

0107 Engine Starting Systems (Other than electric)
Include hand cranking devices, air motors, valves, air distributor, tanks, lines, filters, fittings, traps, levers, shafts, cams, etc.

0108 Manifolds:
Include intake and exhaust manifolds, heat controls, gasket, etc.

0109 Accessory Driving Mechanisms:
Include accessory drive, gears, shafts, quills, bearings, retainers and fan drive, when a part of accessory drive.

0110 Diesel Starting Controls and Conversion Units:
Include valves, guides, springs, retainers, levers, seals, gears, brackets, magnetos, grounding controls, carburetor controls, manifold controls, primer, governor control.
and automatic trip mechanism, tanks, lines, fittings, filters, strainers, cranking devices, etc.

0111 Bearings, Shafts:  
Include couplings, cross drives, belts, transfer gears, chains etc. (Item used to change speed and/or move power to a different level.)

0112 Engine Brake:  
Include bands, linings, controls and related parts, etc.

0120 Engine Assembly, Gas or Steam Turbine
0121 Compressor Assembly: (Including compressor and housing)  
Compressor Housing: Includes inlet air ducts, screens, air plenum, diffuser, deswirl assemblies and miscellaneous parts.  
Compressor: Includes radial or axial impellers, shafts, quills, bearings, oil slingers, oil and air seals, bleed valves, and miscellaneous parts, etc.

0122 Combustion Assembly:  
Include turbine plenum, flame tube and cap assembly, torus or exhaust shroud, muffler and miscellaneous hardware, etc.

0123 Turbine Assembly:  
Include turbine wheel shaft, quills, bearings, bearing housing, seals, nozzle box assembly and miscellaneous parts, etc.

0124 Regenerator Assembly:  
Include regenerators, seals, regenerator drive, shaft assemblies, bearings and miscellaneous items, etc.

0125 Accessory Drive Assembly:  
Include housing, gears, bearings, quills, seals and miscellaneous parts, etc.

0126 Fuel or Steam Control:  
Include fuel pump, fuel governor, fuel scheduling valve, fuel filter, fuel nozzles or atomizers, fuel boost pump, fuel tank, lines, fittings, shutoff valves, drain valves, throttle control and hydraulic governor, and miscellaneous parts, etc.

0127 Lubricating System:  
Include oil tank assembly, oil pump assembly, filter, gas separators, relief valves, lines, fittings, oil cooler assembly and miscellaneous parts, etc.

02 CLUTCH

Note. Special clutches or special design combination clutch and brake will usually be listed in group with which they are associated. This will aid in preventing losing identity of component parts of same.

0200 Clutch Assembly:
Include clutch assembly, housing and clutch drive ring gear when not furnished as part of clutch assembly and is bolted to engine flywheel. List attaching hardware, and disks, pressure and driving plates, facings, linings, hubs, springs, bearings, spindles or shafts, carriers, pilot bearings, etc.

0202 Clutch Release Mechanism:  
Include yokes, fork bearings, pedals and pedal linkage, cross shafts, boosters, bearing lubricating items etc.

Note: Do not Include parts beyond throwout bearing or collar.

0203 Fluid Coupling, Torque Converter:  
(Torque Converter with separate unit) Include converter output, flywheel, pilot cooler, gage, bearings, hub disk, shaft stator gears, turbine, etc.

0204 Clutch Cooling:  
Include hose, lines, fittings, etc.

0205 Clutch Coupling: (Mechanical only)

0206 Clutch Brake: (Use only when a part of master or primary clutch.)

0207 Hydraulic Clutch System:  
Include master cylinder, slave cylinder, lines, fittings, hoses, clips, etc.

03 FUEL SYSTEM

0301 Carburetor, Fuel Injector:  
Include nozzle, clamp, stud, tube, sealing, overhaul kits, etc.

0302 Fuel Pumps:  
Include transfer pumps, injector pumps, diesel fuel pumps, gasoline fuel pumps, lines, fittings, relief valves, drive forks, etc.

0304 Air Cleaner:  
Include pipes, hoses, clamp, etc.
0305 Supercharger, Blower, Turbocharger or Altitude Compensator:
  Include air intake manifold, piping, silencer, etc.

0306 Tanks, Lines, Fittings, Headers:
  Include shutoff valves, controls, lines and fuel manifolds, (high and low pressure).

0307 Fuel Oil Wedge:
  Include pin, etc.

0308 Engine Speed Governor and Controls:
  Include governor assembly, connecting rod or link, governor drive, controls, etc.

0309 Fuel Filters:
  Include fuel filters, strainers, etc.

0311 Engine Starting Aids:
  Include pumps, air heaters, flame primer, lines, fittings, glow plug, wiring, gaskets, etc.

0312 Accelerator, Throttle or Choke Controls

04 EXHAUST SYSTEM

0401 Muffler and Pipes:
  Include muffler, exhaust and tail pipes, shields, brackets or clamps, insulation, etc.

05 COOLING SYSTEM

0501 Radiator, Evaporative Cooler, or Heat Exchanger:
  Include radiator, shell core, expansion tanks, evaporative cooler assembly, caps, grilles, shutters, shutter thermostats, mountings, braces, electrodes, controls, sprays, etc.

0502 Cowling, Deflectors, Air Ducts, Shrouds, etc.

0503 Water Manifold, Headers, Thermostats and Housing Gasket:
  Include lines, fittings, hoses, pipes, clamps, etc.

0504 Water Pump:
  Include fresh water pump assembly, raw water pump assembly, overhaul kit, packing, gaskets, seals, drive, lines, hoses, pipes, clamps, etc.

0505 Fan Assembly:
  Include fan, drive belts, pulleys, guards, hydraulic motor, etc.

0507 Auxiliary Cooling

0508 Water Filter

0509 Keel Cooler:
  Includes lines, etc.

06 ELECTRICAL SYSTEM (Engine and Vehicular, etc.)

  Note. All storage batteries will be covered in this group except electronic system batteries (For electronics system, see group 67.)

0601 Generator, Alternator:
  Include special drive, mounting, attaching parts, repair kits, etc.

0602 Generator Regulator (Voltage).

0603 Starting Motor:
  Include mounting, attaching parts, solenoids, relays, wiring, switches, (other than instrument panel).

0605 Ignition Components:
  Include distributor, magneto, booster coil, ignition coil, wiring, spark plugs, igniter coil, igniter plug, igniter wiring, etc.

0606 Engine Safety Controls:
  Automatic safety devices; include solenoids, circuit breakers, switches, overspeed governor, pressure switches, etc.

0607 Instrument or Engine Control Panel:
  Include wiring, instruments, switches, circuit breakers, lights and lamps etc gages-electrical only (Include electric hourmeter and tachometer.) (For other gages see Group 47) (See 0610 for sending units.)

0608 Miscellaneous Items
  Include light switches, fuses, terminal and junction boxes, etc. (Items not otherwise accounted for.)

0609 Lights:
  Include head, tail, marker lights, lamps, lamp units, and any other additional lights, etc.

0610 Sending Units and Warning Switches:

0611 Horn, Siren:
  Include button and related switches, etc.

0612 Batteries, Storage (Wet or Dry):
  Include hangers, boxes, cables, etc. (Include only cables directly connected to battery.) (Do not include electronic system batteries.)

AGO 9883A
electronic system batteries.) (For A or B type batteries, see group 67).

0613 Hull or Chassis Wiring Harness:
Include trailer couplings and intervehicular connectors. (Electrical only).

0614 Turret Slip Ring Box

0615 Radio Interference Suppression:
(Do not include capacitors or ground straps unless specifically related to radio suppression). Exclude like items in group 40.

0616 Ventilating Equipment

0618 Turret Terminal and Junction Boxes and Switches:
Include control boxes, accessory panels and safety panels, wiring harness, etc.

0619 Turret Cubicle Assembly:
Include signal generator, traversing generator-elevating generator amplifier, accessory box, switches and controls, etc.

0620 Turret Wiring Tiring Harness

07 TRANSMISSION

Note: The following sub-groups 0700 thru 0709 are for the regular Mechanical Transmissions only.

0700 Transmission Assembly (dill and/or secondary
Include transmission case, gasket sets, shim sets, mountings brackets, filler pipes, plugs, covers.

0701 Transmission Shafts:
Include input shaft, output shaft, main shaft, idler shaft counter shafts, power-take-off shaft, gears, bearings, gaskets, seals, retainers, spacers, etc.

0702 Opposed Output:
Include differential, gears, pinions, shafts, carrier, idlers, covers, retainers, gaskets, etc. (Primarily for use where transmission and differential are combined in a single case, but also applies to opposed output where no differential is involved).

0703 Transmission Clutch and Clutch Controls:
(When an integral part of the transmission)

0704 Transmission Top Cover Assembly:
Include shifter shafts, forks, levers, control shafts, rods, U-joints, bell cranks, housings, etc.

0705 Gear Shift, Vacuum Booster and Controls

0707 Transmission Brake

0708 Torque Converter or Fluid Coupling:
(When component of Transmission) (Include lines and fittings.)

0710 Transmission Assembly (Hydraulic), (Hydramatic), (Hydro-Static), (Torqumatic). (Allison), and Associated Parts:
Include input shaft, bearings, gears, intermediate planetary units, low planetary unit, reverse planetary unit, high planetary unit, high and low splitter planetary unit, output shaft, bearings and gears, parking brake, housing, covers, gaskets and plugs, etc. (See group 0703 for torque converter and components).

0713 Intermediate Clutch:
Include Torqumatic brake or retarder, low clutch, high clutch, reverse clutch, high and low splitter clutch.

0714 Serve Unit:
Include servo bands, governor, front servo, rear servo control valves, vacuum lines, main control valves and related parts.

0719 Reduction or Transfer Gears, Shafts, and Bearings

0720 Accessory Drive

0721 Coolers, Pumps, Motors:
Include pumps, filters, coolers, pressure regulators, relief valves, blowers, breathers, vents, pipes, lines, fittings, sending units, etc.

0722 Pump Manifold

0723 Power Gear Train

0724 Clutch Pack of Steering Clutch:
Include all components.

0725 Idler Gears

0726 Brakes, (Special)

08 TRANSFER AND FINAL DRIVE ASSEMBLIES

0801 Power Transfer and Final Drive Assemblies:
Include transfer case, gasket sets, shim sets, mountings, brackets, filler pipes, plugs, covers, input shafts, idler shafts, reduction gear shafts, transfer gear shafts, output shaft, main shaft, power take-off shaft, gaskets, gears, bearings, covers, retainers, spacers, countershafts planetary units, final drive, etc.

0802 Clutch and Clutch Controls:
Include all clutch components.

0803 Gear Shift, Vacuum Booster and Controls:
Include levers, shafts, yokes, forks, seals, covers, boosters, controls, etc.

0804 Lubrication, Cooling, or Hydraulic Components:
Include oil pumps, oil filters, oil coolers, oil pressure regulators, relief valves, breathers, blowers, lines, fittings, etc.

0805 Brakes (Special)

0806 Servo Units

0807 Right Angle Drive Assembly Components

0820 Hydramatic Transfer Assembly

09 PROPELLER AND PROPELLER SHAFTS

0900 Propeller Shafts:
Include universal joints, assemblies, pillow blocks, bearings, etc. (From power unit to functional unit).

0901 Propeller Shaft, Bearings, and Propeller:
(Marine)
Include stuffing box, stern tube and/or strut bearings, universal joint assemblies, propellers, seals, pillow blocks, etc.

10 FRONT AXLE

1000 Front Axle Assembly:
Include axle, tongue, drawbar, lunette, beam, housing, gears, covers, seals, plugs, breathers, shafts, sprockets, chains, bearings, retainers, gasket sets, etc.

1002 Differential:
Include gears, pinions, shafts, carriers, bearings, gaskets, cages, seals, caps, companion flanges or yokes, pumps, relief valves, coolers, blowers, regulators, oil sump, oil pressure regulator, universal joints and propeller shafts, etc.

11 REAR AXLE

1100 Rear Axle Assembly:
Include complete rear bogie, tandem axle, attaching parts, mountings, breathers, gasket sets, shafts, gears, sprockets, bearings, gaskets, chains, seals, retainers, spacers, etc.

1101 Housing, Beam, Housing Covers, Plugs, Seals, etc.
Include planetary final drive housings.

1102 Differential:
Include gears, pinions, shafts, carriers, bearings, gaskets, cages, seals, caps, companion flanges or yokes, pumps, relief valves, coolers, blowers, regulators, oil sump, oil pressure regulator, universal joints and propeller shafts, etc.

1103 Planetary or Final Drive:
Include housings, carriers, caps, covers, shafts, gears, bearings, seals, planetary, mountings, brackets, attaching parts, breathers, fillers, pinions, carriers, balancing units, gear clusters, etc.

1104 Steering, SIDESHIFT and Wheel Leaning Mechanism:
Include knuckles, arms, flanges, pins, seals, gaskets, bearings, shims, etc. (Include all drive parts to power control unit), hydraulic motor or cylinder. If manually operated, include all drive parts and controls.

1105 Tandem Drive Assembly:
Include case, gasket sets, shim sets, filler pipes, breathers, plugs, covers.
1107 Caster Forks:
   Include axles, bearings, seals, etc.

1108 Walking Beams, Stub Axles and Parts:
   Applies to those parts commonly used with tandem wheels where there is no through axle to support the weight.
   **Note. The following groups are to be used only for those vehicles having controlled differentials and/or final drive.**

1124 Steering Brakes, Differential and Planetary Drive:
   Include all component parts.

1130 Column and Wheel Drive Assembly:
   Include lever pivot bearing assembly.

12 BRAKES (Other than special purpose)
   **Note. Special purpose brakes or combination of brakes and clutch are to be listed in groups with which they are associated.**

1201 Hand Brakes:
   Include shoes or bands, facings, supports, anchors, levers, springs, adjusting parts; all and only those parts peculiar to the hand brakes (emergency and parking) system as different from the service brakes.

1202 Service Brakes:
   Include shoes, facings, supports, guides, anchors, springs, adjusting parts, cams, camshaft, cam shoes, flange plates, etc. (Parts listed are normally found in all types of brake systems, hydraulic, air and electrical). Exclude linkage and controls.

1204 Hydraulic Brake System:
   Includes master cylinders, power clusters, wheel cylinders, lines, fittings, hoses, clips, etc.

1205 Vacuum System Components:
   Include vacuum booster lines, fittings, etc.

1206 Mechanical Brake System:
   Include rods, cables, brackets, cross shafts, pedal, slack adjusters, etc. (List all parts and controls peculiar to mechanical brakes; also mechanical parts of air, vacuum, hydraulic and electric brakes).

1207 Electrical Brake System:
   Include cables, connectors, switches, magnets, etc. (Parts and electrical controls peculiar to electric brakes, etc.).

1208 Air Brake System:
   Include brake chambers, diaphragms, valves, filters, air reservoir, lines, hoses, fittings, etc.

1209 Air Compressor Assembly:
   Include governor and related parts.
   **Note. (Refer to Group 50 for breakdown)**

1211 Trailer Brake Connections and Controls:
   Include all items on tractor for operation of trailer brakes. (Exclude electrical couplings).

13 WHEELS AND TRACKS

1301 Suspension Assembly:
   Include track frame torsion bars, hydropneumatic wheel suspension and components.

1302 Track Support Rollers and Brackets:

1303 Track Idlers and Brackets:
   Include track tension parts, compensating wheels, etc.

1304 Track Drive Sprockets:
   Include hubs, drums, bearings, seals, etc.

1305 Track Assembly:
   Include links, pins, pads, nuts, bolts, etc.

1311 Wheel Assembly:
   Include nuts, studs, wheel rings, bead locks, bearings, seals, hubs, drums, tire inflation hub device, fittings and lines.

1313 Tires, Tubes, Tire Chains

14 STEERING

1401 Mechanical Steering Gear Assembly: (Tractors, tanks, etc.)
   Include steering wheel, steering levers, steering column, gears, drag links, tie rods, bellcranks, grease fittings, jackshaft box assembly bushings, seals, etc.

1402 Tractor Hitch Steering

1403 Steering Brakes:
   Include clutches, linkage, hand and/or foot controls, etc. (For differential steering brakes, see Group 1124).
1404 Chains, Sprocket. Shafts, Gears, Housings
1405 Steering Yokes: (As used on rollers, tractors, etc.)
   Include brackets, bushings, bearings, caps, swivel pins, king pins, collars, etc.
1406 Marine Steering:
   Include steering gear assembly, motor assembly, motor control assembly, brake
   assembly, clutch assembly, steering stand assembly, miter gear boxes, shafting,
   universal joins, couplings, bearing hanger, bearings, cable, chain, etc.
1407 Power Steering Gear Assembly:
1410 Hydraulic Pump or Fluid Motor Assembly:
   Include pump drive, brackets, mounting parts, etc.
1411 Hoses, Lines, Fittings
1412 Hydraulic or Air Cylinders
1413 Tanks, Reservoirs
1414 Steering System Valves:
   Include steering valves, relief valves, etc.
1415 Remote (Control Devices: (Steering)
1407 Power Steering Gear Assembly:
1410 Hydraulic Pump or Fluid Motor Assembly:
   Include pump drive, brackets, mounting parts, etc.
1411 Hoses, Lines, Fittings
1412 Hydraulic or Air Cylinders
1413 Tanks, Reservoirs
1414 Steering System Valves:
   Include steering valves, relief valves, etc.
1415 Remote (Control Devices: (Steering)

15 FRAME, TOWING ATTACHMENTS, AND DRAWBARS
1501 Frame Assembly:
   Include platforms, superstructures, ramps, catwalks, bumpers, ladder guards, rollers,
   brackets, hangers, attaching parts, etc.
1502 Counterweights
1503 Pintles and Towing Attachments:
   Include drawbars, lunettes, etc.
1504 Spare Wheel Carrier and Tire Lock
1505 Bridge Launching and retrieving Components
1506 Fifth Wheel
1507 Landing Gear, Leveling Jacks: (Mechanical or Hydraulic)
   Include support legs, frame supports, etc.
1508 Bridging Equipment
16 SPRINGS AND SHOCK ABSORBERS
1601 Springs:
   Include main springs, front springs, rear springs, auxiliary springs, overload springs,
   helper springs, roadwheel arm bumper springs, spring bumpers, shackles, attaching
   parts, etc.
1604 Shock Absorber Equipment:
   Include shock absorbers, snubbers, etc.
1605 Torque, Radius, and Stabilizer Rods

17 RAILWAY CAR BODY AND UNDERFRAME
1701 Carbody and Frame Attachments:
   Include tipping blocks, hand holds, grab irons, sill steps, etc.
1705 Coupler, Buffer, and Draft Gear
1706 Foundation Brake:
   Include bushings, keys, pins, rods, brake shoes, etc.
1707 Car Propelling. Crank Assembly, Axle Drive:
   Include bearings, bearing caps, gear shafts, nuts, washers, etc.
1708 Traction Transmission Assembly:
   Include gears, pinions, etc.
1710 Truck Assembly:
   Include bolster, frame, springs, motor suspension, journal box, wheel, axle, truss
   rod, bearings, dust guard, lid packing, hearing wedges, etc.
1715 Outrigger
1717 Rail Clamps (Used for tiedown of car body to rail)

18 BODY, CAB, HOOD AND HULL
1801 Body, Cab, Hood, and Hull Assemblies:
   Include covers, doors, hatches, guards, pillars, sills, bulkhead molding, cowl, cowl
   ventilators, grommets, seals, gun tube travel lock and components, sandshield, splash
   plates, dash panels, engine side panels, hull panels, etc. Exclude items in subgroup
   [1810, 1811, 1812] and group 21.

AGO 9883A
1802 Fenders, Running Boards with mounting and attaching Parts, Windshield, Glass, etc. 
Exclude items in group 21.
1803 Driver's Hatches, Driver's Periscopes, etc.
1804 Drain Valves, Drain Plugs, etc.
1805 Floors, Subfloors, and related Components: exclude items in subgroups 1810, 1811, and 1812
1806 Upholstery Seats and Carpets:
Include trim and trim accessories, sun visors, crash pads, pads, etc.
1807 Ammunition Loading Devices
1808 Stowage Racks, Boxes, Straps, Carrying Cases, Cable Reels, Hose Reels, etc.
Include mounting and attaching parts.
1810 Cargo Body: (Dump, Stake, and Platform)
1811 Tank Bodies: (Gasoline, Water, etc.)
1812 Special Purpose Bodies:
Include medical, van shop, wrecker, rolling wheel type liquid transporter, power receptacles, heating units (other than personnel or winterization heaters) etc., and all parts peculiar to special bodies.

19 TURRET
1901 Turret Race, Traversing Locks:
Include crash pad, seats, machine gun mount stands, platform and basket, antenna mounting.
1902 Driver's Capsule:
Include basket, seat assembly, vision devices, controls, doors, seals, wiring harness, connectors, etc., not associated with other specific functional groups.
1903 Doors and Ports:
Include grommets, seals, locks, periscope mountings, gunner's sighting equipment, commander's cupola, ballistic shield, etc.
1904 Manual Traverse and Elevating Mechanism:
Include reservoir lines, hand drive, hydraulic motor and hydraulic pump, feed back and feed back controls, hand pump, cylinder exterior valves, booster pump and accumulator, gunner's control, commander's control, electric motors, gear boxes.

1905 Power Elevating and Traversing Mechanism:
Include hydraulic motors and adapters, hydraulic pumps, controls, reservoirs, lines, electric motors, etc.
1906 Interior and Exterior Stowage Racks, Boxes, and Straps
1907 Machine Gun Ammunition Box and Booster
1908 Electrically Operated Ammunition Hoist
1909 Rammer and Spade Hoist Motor:
Include controls, lines, fittings, etc.
1911 Stabilizers
1912 Automatic Loading Device:
Include motors, gearboxes, ports, hoses, fittings, mechanical devices, etc., not associated with other specific functional groups.
1913 Hydraulic Power Supply:
Include mechanical couplings, drives, pumps, and lines, fittings, valves, accumulators, and reservoirs, not associated with other specific functional groups.

20 HOIST, WINCH, CAPSTAN, WINDLASS, POWER CONTROL UNIT, AND POWER TAKE-OFF
2001 Hoist, Capstan, Windlass, Crane or Winch Assembly:
Include case, housing, filler pipes, vents or breathers, plugs, covers and related gaskets, bearings, drums, gears, shafts, blocks, cables, pulleys, external drives clutch and brake drums, controls, hydraulic motor and pump and component parts (when an integral part of hoists or winches).
2002 Power Control Unit Assembly:
Assembly case, filler pipes, vents or breathers, plugs, covers, gaskets, bearings, drums, gears, shafts, pulleys sprockets, belts, chains, universal joints, couplings, brackets, controls, etc.
2004 Power Take-Off Assembly: (Wrecker, Auxiliary Transmission, etc.)
   Include case or housing, controls, gears, shafts, spindles, clutch, pulleys, sprockets, cable drums and related parts.
2005 Spade and Parts
2006 Bulldozer Tripod, Main Frame, Jack and Mounting:
   Include hydraulic pump control valve, oil reservoir, lines and fittings, hydraulic jack support, guards and brackets, etc.
2007 Chain Hoist Assembly: (When an integral part of vehicle.)
   Include hoist mounting frame and parts, snatch block, etc.
21 BUMPERS, GUARDS, AND MARINE FENDERS:
   Note. Special usage type, not to be covered in subgroup 1801
2101 Bumpers, Brackets, Guards, and Protective Devices:
   Note. These items are primarily for safeguarding operators against injury in combat/tactical vehicles, etc.
22 BODY CHASSIS OR HULL, AND ACCESSORY ITEMS
2201 Canvas, Rubber, or Plastic Items:
   Include covers, curtains, shelters, tents, struts, base and erection support, etc.
2202 Accessory Items:
   Include mirrors, reflectors, defrosters, wipers, horns, intercom devices, and mounted accessories, including all components. (Do not reference components to other indexes.) Include fuel, water, air, gas, or liquid transfer hose assemblies, etc., when mounted on cable reels, and unmouted accessories such as hoses, or cables externally connected, and readily coupled or uncoupled, etc.
2203 Tire Pumps:
   Include power and hand pumps (For tent shelter or balloon inflation equipment, see group 43.)
2205 Bilge Pumps (Special application) (Not covered in group 55)
2207 Winterization Equipment (Standard vehicular type only, for special Winterization Kits, see group 33)
   Include heating blankets and strips, and all items pertaining to winterization of the equipment, including equipment heater assemblies and components mounted in or on the end item. (Do not reference components to other indexes.) For all other heaters, see groups 2202-60.
2210 Data Plates and Instruction Holders:
   Include caution plates, instruction plates, identification plates, shipping data plates, etc.
24 HYDRAULIC LIFT COMPONENTS (Exclude tractor bulldozer lifts)
2400 Major Assemblage: (Forklift, conveyor, etc.)
   (Insert applicable nomenclature, and use indexes following for subassembly breakdown).
2401 Hydraulic Pump:
   Include pump drive, pump drive universal joint, etc.
2402 Hydraulic Control Valve
2403 Hydraulic Control Levers and Linkage
2404 Hydraulic Tilt Cylinders and Tilt Crank
2405 Hydraulic Mast Column:
   Include lift cylinder, life carriage forks, lift chain, etc.
2406 Hydraulic Lines and Fittings
26 TOOLS AND TEST EQUIPMENT
2604 Special Tools:
   Include tools that are end item peculiar.
2606 Test Equipment:
   (Hydrometers, thermometers, test tubes, scales and laboratory type test equipment, etc).
29 AUXILIARY GENERATOR AND ENGINE AND CONTROLS (Special purpose)
2901 Generator and Engine Assembly
2910 Engine Assembly
2911 Crankcase, Cylinder Sleeve, Cylinder Head and Block:
   Include core and expansion plugs.
2912 Crankshaft:
   Include bearings, balancer, fan drive pulley, crankjaw, oil slingers, thrust washers, oil seals, etc.

2913 Flywheel Assembly:
   Include ring gear and rear end plate housing.

2914 Pistons and Connecting Rods:
   Include bearings, rings, pins, retainers, etc.

2915 Valves, Camshaft, and Timing System:
   Include rocker arms, push rods, shafts, lifters, springs, guides, seats, covers, gaskets, adjusting screws, tappets, bearings, cam rings, thrust washers, camshaft drive, timing gear, chains, sprockets, etc.

2916 Engine Lubrication System:
   Include oil pumps, scavenger pumps, relief valves, oil filters, oil coolers, pressure regulators, breathers, fillers, oil pan, gaskets, tanks, lines, fittings, level gages, oil temperature controls, etc.

2917 Special Starting Devices

2918 Manifolds:
   Include intake and exhaust manifolds, heat controls, gaskets, etc.

2919 Driving Mechanisms: (Multiple accessories)
   Include accessory drive, gears, shafts, quills, bearings, retainers, and fan drive, etc.

2920 Engine Clutch Assembly and Housing

2921 Engine Clutch Disk

2922 Engine Carburetor

2932 Engine Fuel Pump

2933 Engine Air Cleaner

2934 Engine Supercharger or Blower

2935 Engine Fuel Tank

2936 Engine Speed Governor and Controls

2937 Engine Fuel Filter

2938 Engine Priming System, Lines and Pumps

2939 Engine Throttle and Choke Controls

2941 Engine Muffler, Exhaust and Tail Pipes

2942 Engine Exhaust Ducts

2951 Engine Radiator, Shell, Core, and Expansion Tank

2952 Engine Cowling Deflectors, Air Ducts, and Shrouds

2953 Engine Cooling System Lines

2954 Engine Water Pump

2955 Engine Fan, Fan Drive, Fan Belts, Fan

2960 Sending Units

2961 Generator

2962 Regulator

2963 Starter, Solenoids, Circuits Breakers, Wiring, and Switches

2964 Distributor of Magneto:
   Include ignition system ventilating equipment and magneto booster coil.

2965 Ignition Coil:
   Include wiring spark plugs and switches.

2967 Instrument Panel

2968 Switches, Circuit Breakers and Fuses

30 ELEVATORS, SPECIAL PURPOSE:
   (Hydraulically operated)

3000 Hydraulic Elevator Assembly:
   Include mounting parts, installation kits, etc.

3001 Equalizer Assembly:
   Include pulleys and cables.

3002 Doors, Hinges, and Panels

3003 Chassis, Platform and Guide Rail Assembly

3006 Pedestals, Leveling Jacks

3007 Bar Assembly Locking

33 SPECIAL PURPOSE KITS

3301 Reusable Shipping Containers

3303 Winterization Kits: (Special purpose, not included in group 2207)

3305 Deep Water Fording Kits

3307 Special Purpose Kits

34 ARMAMENT AND SIGHTING AND FIRE CONTROL (ELECTRIC/ELECTRONIC) MATERIEL

3401 Primary Armament:
   Include repair parts for guns, howitzers, Mortars, Launchers, recoilless rifles, related mounts, coaxial machine gun mounts, remote gun stations, and manual or automatic loaders.
<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3402</td>
<td>Small Arms: Include repair parts for machine guns and related mounts except coaxial machine gun mounts.</td>
</tr>
<tr>
<td>3404</td>
<td>Sighting and Fire Control Tools and Equipment: Include repair parts.</td>
</tr>
<tr>
<td>35</td>
<td>PULLEYS, BELTS, SHAFT'S, (Not related to other functional groups)</td>
</tr>
<tr>
<td>3501</td>
<td>Pulleys, Belts, Shafts</td>
</tr>
<tr>
<td>39</td>
<td>SEARCHLIGHT AND ELECTRICAL ILLUMINATING EQUIPMENT</td>
</tr>
<tr>
<td>3901</td>
<td>Searchlight or illuminating, Light Assembly: Include extended hand controls, mounting and attaching parts, etc.</td>
</tr>
<tr>
<td>3902</td>
<td>Box Assemblies and Relay Assemblies: Include ballast-resistor, relay and reactor boxes, taps and busbar assembly, etc.</td>
</tr>
<tr>
<td>3903</td>
<td>Base Assemblies: Including housings, stowing locks and transportation bars; tripods, etc.</td>
</tr>
<tr>
<td>3904</td>
<td>Control Box Assemblies: Include azimuth and elevation gearing, etc.</td>
</tr>
<tr>
<td>3905</td>
<td>Turntables: Include trunnion arms, bearings, housings, collector rings and brush assemblies, etc.</td>
</tr>
<tr>
<td>3906</td>
<td>Rear Lamp Housing Assembly: Include rear section with reflecting mirror; ducts and ventilating system, etc.</td>
</tr>
<tr>
<td>3907</td>
<td>Front Lamp Housing Assembly: Include drum section with doors, shutters, lens, recarboning lamps and carbon rack, etc.</td>
</tr>
<tr>
<td>3908</td>
<td>Lamp, Electrodes, and Lamp Mechanism: Include feeding, rotating and focusing mechanism; lamp control box assemblies, sockets, etc.</td>
</tr>
<tr>
<td>3909</td>
<td>Cables: Include power, internal control and sound locator; special cable reels.</td>
</tr>
<tr>
<td>3910</td>
<td>Control Station: Include controller base, carrying bars, handwheels; distant electrical control systems with operator instruments, binocular mounting, etc.</td>
</tr>
<tr>
<td>3911</td>
<td>Switches: Include boxes, switches, signal keys, capacitors, and electrical connectors, etc.</td>
</tr>
<tr>
<td>40</td>
<td>ELECTRIC MOTORS AND GENERATORS: (Other than engine accessories) Include motor generators and dynamotors when unitized construction, except welding equipment. For welding equipment, see group 44.</td>
</tr>
<tr>
<td>4000</td>
<td>Major Assemblage: Motor Generator and Rotating Exciter Assemblies: (Insert applicable nomenclature and use indexes following for subassembly breakdown).</td>
</tr>
<tr>
<td>4001</td>
<td>Rotor Assemblies: Include coils, rotor bars, end rings, commutators, slip rings, cores, spindles, pole pieces and shoes, insulation, shafts, hardware, etc.</td>
</tr>
<tr>
<td>4002</td>
<td>Stator Assemblies: Include coils, cores, pole pieces and shoes, frames, insulation, hardware, etc.</td>
</tr>
<tr>
<td>4003</td>
<td>Brush Holders: Include rocker rings, interconnections and miscellaneous wiring; brush holder assemblies, brushes, terminal lugs, leads and miscellaneous wiring, etc.</td>
</tr>
<tr>
<td>4004</td>
<td>Ventilating System: Include fans, blowers, dust guards, baffles, etc.</td>
</tr>
<tr>
<td>4005</td>
<td>Frame Support and Housing: Include bases, end brackets and shields, bearings, seals, caps, junction boxes, etc.</td>
</tr>
<tr>
<td>4006</td>
<td>Starting and Protective Devices: (Electric motors only) Include capacitors, built in switches, fusing and overload devices, etc.</td>
</tr>
<tr>
<td>4007</td>
<td>Drive Components: Include couplings, pulleys, belts, shafts, pinion gears, reduction gears, etc.</td>
</tr>
</tbody>
</table>

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4008 Brake: (Electric motor only)
   Include hub, plate, coil and rings, etc.

4009 Control Panels, Housing, Cubicles:
   Include mounting parts, lights, instruments,
   metering converters, wiring, etc., mounted on
   or attached to panel.

4010 Master or Auxiliary Control Assembly:
   Include contactor assembly, rheostats for
   controller output, local or remote, etc. sub-
   panels) include electric governing and control
   units. (Electronic items are covered in group
   67).

4011 Circuit Breakers, Cutouts, Fuse and
   Fuseholders: (Exclude master or auxiliary
   control parts).

4012 Switches:
   Include reversing polarity, meter switches,
   toggle, thermostatic controlled switches, etc.
   (Do not include built-in starting devices).

4013 Regulator, Voltage or Current:
   Include components and mounting hardware.

4014 Resistors: (Fixed variable or tapped)
   Include control rheostat and potentiometers,
   etc.

4015 Relay or Assembly: (Exclude component of
   contractor assembly and battery circuit
   components).

4016 Coils: Choke or Filter: (Exclude rectifier circuit
   and excitation circuit).

4017 Transformers: Rectifiers: (Exclude excitation
   components).

4018 Terminal Blocks, Junction Boxes:
   Include main power receptacles, terminal
   boards, busbars, etc.

4019 Radio Interference Suppression:
   Include capacitors, filters, ground straps,
   mounting hardware, etc., and all items
   directly related to radio interference
   suppression in group 40 only. (Exclude like
   items in groups 06, 42 or 44.)

4020 Static Exciter Components:
   Include rectifiers, diodes, reactors, inductors,
   transformers, etc.

42 ELECTRICAL EQUIPMENT (Not contained in
   other functional groups)

4201 Transformer, Power Line or Distribution:
   Include primary and secondary windings,
   cores, lead in insulators, cases and covers,
   insulation brackets, etc.

4202 Electrical Controls (Main and auxiliary):
   Include panels, terminal studs and lugs,
   binding posts, terminal strips, panel wiring,
   insulators, frames, cabinets, covers, doors,
   brackets, supports, lifting eyes and mounting
   parts, etc.

4203 Circuit Breakers, Cut Out Devices, Fuse and
   Fuse Holders:
   Include relays, switches, safety controls, etc.
   (Do not list items that promote engine shut
   down.) (See group 0606).

4204 Voltage and Current Regulators:
   Include choke coils and reactors, etc.

4205 Control Resistances: All fixed and variable
   resistors, potentiometers, and/or rheostats).
   Include mounting hardware.

4206 Thermostatic, Automatic and Manual Control
   Devices.
   Include trip and travel devices, solenoids,
   automatic power transfer switch, mounting
   parts, sending units, etc.

4207 Idling Controls:
   Include engine speed controls on generator
   sets, etc.

4208 Special Remote Controls:
   Include light-actuated relay units, selsyn
   devices, etc.

4209 Signaling Devices:
   Include warning lights, buzzers, bells, sirens
   and sending units, etc. (Do not include
   intercom devices listed in group 2202).

4210 Instruments:
   Include all voltmeters, ammeters, watt hour
   meters, frequency meters, etc. (Transformer
   or chokes for same) and panels.

4211 Power Receptacles

4212 Heating Units:
   Include all coil or strip resistances used for
   heating purposes, other than items covered
   in group 22.
4213 Non Rotating Rectifiers, Converters, Inverters: Include transformers, filter chokes, coils and condensers, frequency changers, dry and wet type rectifiers, inverters, converters, etc. (Do not include transformers covered in 4201).

4214 Radio Interference Suppression: Include all capacitors, resistors, choke coils, filters, etc. (Those items used primarily for radio interference suppression) Exclude similar items used on ignition systems and rotating electrical equipment, etc., coverable in groups 06, 40, and 44. All other radio interference suppression circuits will be covered here.

4215 Electrical Test Equipment: (Portable or Mounted) (If electronic type see group 67).

4216 Miscellaneous Wiring and Fittings
4217 Magnet (Crane, Sweeper, etc.): Include controller, exciter generator assembly, reel assembly resistor, etc.

43 HYDRAULIC, FLUID, AIR AND VACUUM SYSTEM: (Exclude brake system)

Note. For hydraulic steering system refer to group 14

4300 Hydraulic System: (Complete assembly)
4301 Strainers, Filters, Hose, Pipe Fittings, Tubing, etc.
4302 Pump and Pump Drives: Include mounting parts, etc.
4305 Manifold and/or Control Valves: Include relief valves, check valves, regulating feed valves, and mounting parts, etc.
4306 Hydraulic, Vacuum, or Fluid, Motor
4307 Hydraulic Cylinders
4308 Liquid Tank or Reservoirs
4309 Hydraulic Controls and/or Manual Controls: Include linkage, hydraulic clutch controls, accumulators, etc.
4315 Gas, Air or Vacuum System: Include tent, shelter or balloon inflators, etc. Use indexes following, as applicable, for breakdown.

4316 Assembled Hose, Fitting, Lines, Breathers, Filters and Traps: (For accessory hose, see group 22)
4317 Manifold and/or Control Valves: Include relief valves, relay valves, check valves, mounting parts, etc.
4318 Air or Vacuum Cylinder Assemblies: Include diaphragms, chambers, cylinders, etc.
4319 Pumps and Pump Drives: (Air or vacuum) (For compressor units, see group 50).
4320 Air, Vacuum and/or Manual Controls: Include linkage.
4321 Tanks or Reservoirs
4322 Air Floatation System: For floatable vehicles
4323 Air Pressurization System: For vehicles equipped with front axle steering knuckle boot

44 WELDING, METALIZING, METAL HEATING, AND PLATING EQUIPMENT

4400 Major Assemblage: Arc Welders, Electro Plating, Flame Cutting, or Gas Welding Units, etc. (Insert applicable nomenclature and use groups following for sub-assembly breakdown).
4401 Rotor Assembly: Include motor, generator, exciter, etc.
4402 Stator Assembly: Include motor, generator, exciter, etc.
4403 Brush Holder Assembly: Include motor, generator, exciter, etc.
4404 Drive Components: Include belts, pulleys, couplings, etc.
4405 Frame Support, Housing, Carrier, etc.
4406 Ventilating, Cooling System
4407 Control Panels, Housing, Cubicles: Include indicators, instruments, wiring assemblies, etc.
4408 Connecting Devices: Include terminal blocks, junction boxes, connectors, hoses, wiring
harness assemblies, etc. See group 2202 for hose or cable of accessory type.

4409 Protective Devices, Electrical:
   Include fuses, fuseholders, insulation, etc.

4410 Switching, Timing and Speed Control:
   Include circuit breakers, thermal overload switches, relays, solenoids, electron tubes, bypass and blacking capacitors, etc.

4411 Resistor Components
4412 Transformer Components
4413 Rectifier Components
4414 Radio Interference Suppression:
   Include resistors, capacitors, filters and grounding, etc., used for R. F. suppression.
   Exclude like items used in groups 06, 40, 42.

4415 Head, Torch and Gun Initialing Components

45 OFFICE MACHINERY, EQUIPMENT, AND FURNITURE. (Include household furniture)
4501 Office Machinery and Equipment
4502 Furniture: (Include household furniture).

46 REPAIR EQUIPMENT: (Shoes, clothing, textile)
4601 Repair Equipment: (Shoes)
4602 Repair Equipment: (Textile)
4603 Repair Equipment: (Clothing)

47 GAGES (NON-ELECTRICAL), WEIGHING AND MEASURING DEVICES:
   Note. Do not include in these groups items (gears, etc.) located in the Accessory Drive, Transmission, Transfer, etc. Which are integral parts thereof, and which may have dual functions. Use cross references to identify those items, and the group in which they are listed.

4701 Instruments (Speed and distance):
   Include speedometers, tachometers, odometers, revolution counters, drive shafts, adapters, etc.

4702 Gages, Mountings. Lines, and Fittings:
   Include pressure, quantity, temperature, vacuum, measuring, liquid level, etc.

4703 Hourmeter:

4704 Density Indicator:
   Include batchometer, bitumeter, thickness control, scale, screws, handles, pedals, linkage, etc.

4705 Flow Meters and Regulators:
   Include water meters, motor oil meters, viscometers, etc. (Applies to devices for measuring and, for controlling rate of flow of liquids, air, gases, etc.).

4706 Weighing or Balancing Devices:
   Include beam scales, spring scales, etc. (For laboratory type scales, see group 26).

48 FOOD PREPARATION EQUIPMENT: (Mobile and field)
4801 Coffee Urn
4802 Exhaust Fan and Grease Trap
4810 Immersion Heater
4815 Range
4820 Refrigerator
4825 Sink
4830 Toaster
4835 Other Food Preparation Equipment

50 PNEUMATIC EQUIPMENT. (Air compressors, pneumatic motors, etc.)
5000 Air Compressor Assembly: (For brake compressor assembly, see group 12) (For refrigeration compressor, see group 52).

5001 Crankcase, Block, Cylinder Head:
   Include rotor housing, cylinders, sleeves, warming devices, (non-electrical) attaching parts, mountings, lifting eyes, etc. (Covers are to be listed in those groups with which they are associated.)

5002 Crankshaft
   Include bearings, balancers, gear, fan drive pulley, etc.

5003 Flywheel Assembly:
   Include flywheel housing, clutch, clutch

5004 Pistons, Connecting Rods, and Rotors:
   Include rings, pins, bushings, hearings etc.
5005 Valves, Camshaft and Timing Mechanism:
Include valves, springs, seats, guides, lifters, arms, rockers, camshafts, bearings, gears, drives, etc.

5006 Lubrication System:
Include oil pump, relief valves, breathers, fillers, oil pan, coolers, tilters, lines, fittings, regulators, etc.

5007 Compressor Drive:
Include shafts, gears, belts, pulleys, etc.

5008 Air Intakes:
Include manifold, pipes, air cleaner, etc.

5009 Unloader System Components:
Include manifold, pipes, air cleaner, etc.

5010 Compressor Cooling and Heating:
Include intercooler, fans, brackets, pumps, radiator, hoses, pipes, air blowers, etc.
(Include internal or external heating devices not covered in 2207.

5012 Throttling Devices:
Include diaphragms, pressure switches, etc.

5013 Hose Reel:
(See group 18 for breakdown of reel; see group 22 for hose assemblies.)

5014 Air Receiver:
Include governing valves.

5015 Air Discharge System:
Include manifolds, lines and fittings, etc.

5019 Pneumatic Motor Assembly:
Include grinders, sanders, drills, tampers, hammers, chisels, jack, etc. Include components, attaching parts, and accessories not covered in other index groups.

5020 Governor: (Pneumatic motor)
Include handles, throttle valves, air inlet, strainer, controls, etc.

51 WATER PURIFICATION SYSTEM
5100 Water Purification Unit (Major assemblage or demineralization unit): (Insert applicable nomenclature and use groups following for sub-assembly breakdown.)

5101 Hypochlorinator Assembly:
Include pumping block, clamp plate, distribution block, diaphragm, camshaft, drive shaft, springs, valves, etc.

5102 Tanks, Containers:
Include baffles, filters, etc.

5103 Piping, Valves:
Include fittings, connection, etc.

5104 Water Testing Equipment

5105 Demineralization Equipments Components:
Include all components not contained in group 51 that are applicable.

5106 Heat Exchanger:
Include exhaust heat exchangers, engine water coolers, heat exchangers, after coolers, etc.

5107 Evaporators, Condensers:
Include steam chests, heads, separators, ducts, shells, vents, condensers, air ejectors, air ejector pumps, etc.

5108 Compressors, Air Blowers:
Include housings, bearings, shafts, gears, rotors, drive pulleys, belts, and related parts.

5109 Multiple Take-Off (Line drive)

52 REFRIGERATION AND AIR CONDITIONING COMPONENTS
5200 Gas Compressor Assembly:
Include attaching parts, mountings, lifting eyes, brackets, etc.

5201 Compressor Columns and Cylinder Heads:
Include covers, housings, gaskets, studs, etc.

5202 Crankshaft:
Include bearings, stuffing boxes, glands, etc.

5203 Compressor Drive, Pedestal, Base:
Include drive pulley, outboard bearings, etc.

5204 Pistons, Connecting Rods:
Include rings, pins, bearings, etc.

5205 Suction and Discharge Components:

AGO 9883A
Include safety head, discharge valves, suction valves, springs, plates, seats, (cages, etc.

5206 Oil Pressure Relief Valve (When integral part of compressor)

5207 Vacuum Pump
   Includes crankshaft, pistons, connecting rods, suction and discharge valves, drive forks, etc

5210 Compressor Manifold:
   Include valve bonnet, packing unit, etc.

5211 Manifold Valve Stem:
   Include button, handwheel, etc.

5212 Suction Strap Cap:
   Include screen gasket stud, etc.

5213 Safety Valve Bonnet:
   Include cone, seal cap, spring guide, spring rod, button, valve, spring, etc.

5214 Compressor lubricating Pump:
   Include oil pump drive, gears, shafts, shaft extensions, keys, lines, fittings, etc.

5215 Unloader System

5216 Oil Piping:
   Include valves, elbows, tees, flanges, etc.

5217 Refrigerant Piping:
   Include valves, tees, flanges, couplings, etc.

5218 Water Connections

5220 Ice Tank Crane:
   Include crane truck parts.

5222 Ice or Freezing Tank:
   Include coils, headers, flanges, etc.

5221 Refrigerant Accumulator

5228 Oil Separator:
   Include heads, baffles, flanges, etc.

5230 Condenser: (Water or air cooled)
   Include water pan, coils, eliminator, overflow hood, float valve, etc.

5232 Brine Agitator:
   Include housings, propeller, shafts, bearings, etc.

5235 Hydrating Equipment

5240 Humidifiers or De-Humidifiers

5241 Evaporator

5242 Cooling Tower

5243 Blower Assembly:
   Include shafts, bearings, etc.

5244 Thermostatic Controls: (Air temperature and moisture)

5245 Air Filters

5246 Air Cycle Conditioner System: (Used primarily with gas turbines).
   Include valves, controls, water separators, heat exchangers, cooling turbines, fans, flow regulators, and miscellaneous items, etc.

5247 Heating Units: (Include all components, attaching parts, etc.)

53 LAUNDRY EQUIPMENT

5301 Extractors

5302 Tumblers

5303 Washers (Clothing)

54 TENTAGE, EQUIPPAGE, AND SPECIAL, PURPOSE CLOTHING COMPONENTS

5401 Tent Body (Main fabric components)

5402 Tent Liners

5403 Tent Support Components (Frames, poles, arches, etc).

5404 Tent Anchoring Components (Pins, anchors, guy lines, anchor ropes, etc.).

5405 Tent Accessories (Covers, reusable containers, flies, stovepipe sleeves, etc.).

5406 Helmet and Hood Body (Fabric plastic, metal)

5407 Helmets and Hood Visual Components

5408 Helmet and Hood Communications Components

5409 Helmet and Hood Respiratory Components

5410 Helmet, Hood and Clothing (Heating and cooling components)

5411 Bulk Materials (Include fabrics, tapes, webbing, thread and other items not supplied as piece parts).

5412 Hardware, Fastening Devices and Findings

55 PUMPS (Exclude engine and special pumps).
   (See group 2205 for bilge pumps).

5500 Pump Assembly:
   Include volute housing, spindle housing, lifting eyes, mountings, attaching parts,
brackets, stator, bowl, base, body, etc.

5501 Shafts, Rotors, Impellers:
Include impeller shaft, crankshaft, eccentric shaft seals, bearings, etc.

5502 Pistons, Rings, Pins, Rods, Bearings, Diaphragms

5503 Crank Case:
Include gear case and plates, etc.

5504 Cylinder, Cylinder Head

5505 Suction and/or Discharge Assembly:
Include valves, heads, priming devices, etc.

5507 Pump Drive:
Include shafts, belts, gears, clutch and related parts, pump drive jack assembly, pump auxiliary drive.

5508 Lubricators:
Include steam lubricators, grease cups, oil cups, oiler, etc.

5509 Force Attachments

5510 Inlet and Outlet Components:
Include sand traps, foot valves, strainers, formed hose, fittings, etc.

5511 Couplings:
Include flexible shaft couplings, cable drive couplings, racket couplings, etc.

5512 Column Assembly

5513 Fluid lines:
Include connections, valves, controls, etc.

5514 Steam Chest

5515 Cross Stand

5516 Cross Head Assembly

5517 Proportioner, Mixer, Regulator:
Include water motor.

5518 Manifold Assembly: (Distribution)
Include mounting and attaching parts, valves, gaskets, plates, etc., which are part of the assembly.

56 FILTERS, SEPARATORS, AND PURIFIERS

Note. The following groups 5600 through 5605 apply to FILTERS AND SEPARATE AND MISSILE AIR PURIFICATION SYSTEMS.

5600 Fuel, Water, Air, Filter/Separation or Purifier Assembly

5601 Automatic Discharge and Relief Valve

5602 Auxiliary Control Valve

5603 Float Chamber

5604 Canisters and Elements

5605 Common Valves, Lines, and Fittings

Note. The following groups 5606 through 5624 apply to PURIFIERS.

5606 Purifiers (Diesel fuel, lubricating oil).

5607 Lubricating Oil Purifier Assembly

5608 Diesel Fuel Oil Purifier Assembly

5609 Frame Cover and Inlet Arm

5610 Pulley Assembly:
Include belts, pulleys, collets, nuts, etc.

5611 Idler Assembly

5612 Bowl Assembly

5613 Wormwheel and Friction Clutch

5614 Housing Plate and/or Pump Assembly

5615 Top Bearing and Bowl Spindle

5616 Bearing Assembly

5617 Brake and/or Drag Assembly

5618 Speed Indicator

5619 Bottom Screw

5620 Heater, Filter and Lines

5621 Strainer or Filter Assembly

5622 Instruments and/or Controls

5623 Motor Assembly

5624 Controller Assembly

57 SPRAY EQUIPMENT COMPONENTS

5700 Major Assemblage: (Insert applicable nomenclature and use groups following for subassembly breakdown).

5701 Insect Spray Gun

5702 Insect Spray Components

5703 Air Blower Assembly:
Include shafts, belts, guards, etc.

5704 Spray Ducts and Manifolds:
Include jets, fittings and controls

5706 Dust Bin:
Include filter screens and controls, etc.

5707 Instrument Panel

5708 Tanks, valves, Lines, Hoses, Fittings and Liquid Strainer: (See group 22 for hoses).

5709 Metalizing Gun

5710 Paint Spray Gun

AGO 9883A
5711 Paint Spray Extension
5712 Paint Spray Tank
5713 Paint Spray Air Control Unit
5714 Paint Spray, Hose:
    Include valves, fittings, connection, etc. (See group 22 for hose).
5715 Paint Spray Pressure Cup
5716 Paint Spray Strainer and Air Filter

58 SANITATION AND FUMIGATION EQUIPMENT
   COMPONENTS: (Also see Group 91)
5801 Sanitation Equipment Components
5802 Fumigation Equipment Components

59 WATER SUPPLY SYSTEMS
5900 Water Pump Assembly (See group 55 for breakdown).
5901 Motor (Electric) (See group 40 for breakdown).
5902 Air Valve
5903 Water Closet
5904 Lavatory and Shower
5905 Water Cooler
5907 Water Heating 'Electric) (See group 42 for controls).
5908 Water Purification (See group 51 for breakdown).
5909 Water Reservoir

60 STEAM BOILERS, WATER HEATERS,
   HEATING UNITS, BURNERS (Exclude heaters in groups 22, 33, and 59).
6000 Major Assemblage: Heaters, Air, Water, Steam,
   Chemical, Electric.
   (Includes personnel or space heaters not covered in groups 22, 33, and 59).
   (Insert applicable nomenclature and use groups following for subassembly breakdown).
6001 Housing and Insulation
6002 Feed Water Line:
    Include fittings, valves, injectors, etc.
6003 Steam Jet Assembly:
    Include hose, valves, fittings, etc.
6004 Fuel System:
    Include pumps, strainers, etc.
6005 Burner Assembly:
    Include igniters, igniter coils, or transformer,
    jets, nozzles, preheaters, strainers, burner
    blowers, valves, lines, fittings, etc.
6006 Motor Assembly:
    Include brushes, brush holders, bearings, etc.
6007 Fuel Tank:
    Include valves, lines, hoses, fittings, etc.
6008 Blower Assembly:
    Include housing, lines, etc.
6009 Ventilating System:
6010 Exhaust System:
    Include piping, stack and heating coil, etc.
6011 Combustion Chamber:
    Include lines, insulation, etc.
6012 Circulating Pump (Hot Water) Assembly
6013 Heat Exchanger Assembly
6014 Unit Heater (Personnel):
    Includes electric, steam, water, etc.
6015 Water Heater Assembly:
    Include auxiliary equipment, damper control,
    flexible drive coupling, etc.

61 GAS GENERATING EQUIPMENT
   COMPONENTS
6100 Major Assemblage: Liquid Oxygen, Nitrogen,
   Hydrogen, etc.
   (Insert applicable nomenclature and use
   groups following for subassembly breakdown).
6101 Compressor and Manifold Assembly
6102 Crankcase, Cylinder, Cylinder Heads
6103 Rotor and Housing:
    Include bearing, seals, etc.
6104 Crankshaft and Flywheel:
    Include bearings, balancer, seals, housing,
    etc.
6105 Piston Connecting Rods:
    Include rings, bearings, crossheads, guides,
    etc.
6106 Compressor Valves:
    Include springs, seats, etc.
6107 Oil Pan Lines:
    Include connections, fillers, plugs, etc.
6108 Flash Arrestors, Pressure Reducers:
   Include strainers, pressure regulators, leak
   testing units, etc.
6109 Lubrication System (oil, soap, etc.)
6111 Heat Exchanger Assembly:
   Include casing, guard, collecting pan,
   brackets, baffles, grilles
6112 Air Blower Assembly:
   Include casing, shaft bearings, drive pulley
   belts, etc.
6113 Cooling Coils, Manifolds, Valves, Piping:
   Include pins, spray heads, floats, switches,
   valves, etc.
6114 Hot Air Heater Assembly
6115 Air Manifolds, Condenser, Receiver, Dryers,
   Separators:
   Include inlet, outlet, dividing, bypass, suction
   and discharge trap.
6116 Tanks, Formed, Hose, lines, Fittings, etc.
   (Other than fuel). See group 22, for auxiliary
   hose.
6117 Power Train:
   Include clutches, shafts, belts, pulleys, etc.
6118 Distillation Tower Unit:
   Include liquifier oxygen column, control
   station, instrument panel, intercooler, fans,
   brackets, etc.
6119 Charging Manifold
6120 Air and Gas Drying Cylinders:
   Include valves, lines, fittings, etc.
6121 Expansion Engine Assembly
6122 Crankshaft, Bearings
6124 Piston, Crossheads
6125 Valves, Spring, Guides:
   Include pushrods, bushings, inserts, etc.
6126 Manifolds Ports
6127 Scrubbers
6128 Absorbers
6129 Gas Coolers
6130 Reactivators
6131 Mixer, Agitators
62 ILLUMINATING EQUIPMENT (Other than
   electrical) (For electrical, see group 39).
6200 Major assemblage: Chemical, Gas, or Oil
   Lights, etc.
6201 Light Assembly:
   Include reflectors holder, swing joint, etc.
6202 Combination Container Assembly:
   Include carbide container carbic cake
   container, gage, guide cylinder cap, etc.
6203 Inside Cylinder Assembly:
   Include cylinder, container lock, baffle plate,
   cylinder top, cylinder band, pipes, fittings,
   etc.
6204 Tank and Filter Assembly:
   Include tank, band, bottom, bottom bar,
   cylinder lock, handle, cleats, screen, pipes,
   reducer, etc.
6205 Burner Control Valve:
   Include stem, tip cleaner, valve stem tip,
   packing washer, packing nut, handle, burner
   tip, etc.
63 CONTROL PANELS AND CONTROL
   COMPARTMENTS:
   To be used for control stations and/or control
   compartments on equipment such as liquid
   oxygen, nitrogen or gas generating plants,
   missile systems, or remotely located central
   control units, used to control multiple pieces
   of equipment, etc.
6300 Major Assemblage (Insert applicable
   nomenclatures and use groups following for
   subassembly breakdown).
6301 Gages:
   Exclude engine gages. Include mountings.
6302 Controls:
   Exclude engine controls.
6303 Lines and Fittings:
   Include clamps, brackets, mountings, etc.
64 VENTILATING FANS AND BLOWERS: (Special
   purpose)
6401 Ventilating Fan Assembly
6402 Blower Assembly
6403 Motor Assembly:
   Include brushes, brush holders, bearings, etc.
65 REPRODUCTION EQUIPMENT COMPONENTS

6500 Major Assemblage, Printing Presses, Cameras, Projectors Reproduction Equipment, etc. (Insert applicable nomenclature and use indexes following for sub-assembly breakdown).

6501 Offset Press File Feeder:: Include component parts.

6502 Offset Press Feeder: Include Component parts.

6503 Offset Main Press Assembly

6504 Offset Press Inker: Include component parts.

6505 Offset Press Water System: Include component parts.

6506 Pile Delivery: Include component parts.

6509 Camera Assembly: Include component parts.

6510 Projector Assembly: Include component Parts.

6511 Enlarger Assembly: Include (component parts.

6513 Whirler: Include component parts.

6515 Printing and Developing Machines: Include component parts.

6517 Grainer: Include component parts.

6519 Duplicator Assembly: Include component parts.

6521 Dryers: Include component parts.

6523 Frame, Printing Multiplex: Include component parts.

6525 Pantograph: Include component parts.

6527 Sketch Master: Include component parts.

6529 Table, Negative Paper Cutting Equipment, or Multiplex, etc. Include component parts.

6531 Cooling Unit Multiplex. Include component parts.

67 PRECISION INSTRUMENTS AND SYSTEMS, MECHANICAL, ELECTRICAL, ELECTRONIC
(For fire control, see group :34).

6700 Major Assemblage: (Mine detectors, sniperscope weapons sights, surveying instruments, gyro compass, oscillators, electronic tester apparatus, pyrometers, etc.) Insert applicable nomenclature and use groups following for subassembly breakdown.

6701 Telescope Assembly: Include tube, mounts, etc.

6702 Optics: (Reflecting and transmitting type) Include filters.

6703 Mechanical, Structural, and Precision Parts: Include housing, covers, panels, frames, chassis, hardware, drive, dial mechanisms, knobs, etc.

6704 Batteries: Include internal, external wet and dry types.

6705 Fuses and Lamps: Include fuse holder and socket assemblies, mounting parts, etc.

6706 Rotating Equipment: Include motors selsyns, etc.

6707 Modules

6708 Electronic Tubes and Semi Conductors: Include all types of vacuum and gas tubes, photo tubes, cathode ray tubes, transistors, rectifiers, etc.

6709 Infra Red Elements: Include image tubes, thermal and photo detectors, etc.

6710 Circuit Components: Include resistors, capacitors, coils, chokes, printed circuit boards, transformers, potentiometers, etc. Both fixed and variable types.

6711 Controls, Indicators and Special Components: Include switches, radio phones, etc. (Meters are covered in group 42).

6712 Mounted Connecting Devices: Include terminal blocks, receptacles, lugs, tube sockets, tube shields, etc.

6713 Miscellaneous Wiring and Fittings:
Include internal and external wiring and fittings.

6714 Antennas, Grounds and Related Equipment
6715 Special Electronic Testing Equipment, Mounted or Portable
6716 Oscillating Equipment: (When used as a major subassembly, components are not to be referenced to other indexes).
6717 Power Supply: (Self contained)
   Include vibrator, rectifier, wiring harness, etc.
6718 Compass and Level:
   Include items that are not major components, but are essential to the end item.
6719 Tripods:
   Include tripod cover plates, firing plate assembly, brackets, etc.

68 WARNING, SCANNING, AND SIGNALING DEVICES AND NAVIGATIONAL INSTRUMENTS (Land, air, and water)
6801 Gyro Compass System:
   Include ballistic assembly, amplifier unit, inverter unit, cable harness, connectors, gaskets, lamps, mercury, packing, switches, tubes, fuses, armatures, bearings, brushes, etc.
6802 Magnesium Compass System
6803 Magnetic Compass
6804 Loran Equipment
6805 Shoran Equipment
6806 Radar System:
   Include radar receiver, transmitter, radar indicator control, antenna, heater control box, motor generator set, starter for .G. set and safety switch.
6807 Radio Direction Finder:
   Include radio direction finder unit, power unit.
6808 Underwater Sound System:
   Include sonar equipment; underwater listening equipment, fathometers.
6809 Radio Telephone System:
   Include radio transmitter-receiver, converter, connection box, switch box, power panel.
6810 Infra-Red System
6820 Laser and Maser Systems
6830 White Light System
6840 IFF Radar System
69 SAWMILL COMPONENTS
6901 Husk or Operating Controls:
   Include levers, pulleys, bearings, mandrels, etc.
6902 Carriage:
   Include setworks, head block, dog, etc.
6903 Trackway:
   Include rails, ropes, pulleys, bearings, etc.
6904 Edger:
   Include idlers, bearings rollers, shafts, etc.
6905 Cut-Off Rig:
   Include controls, drives, bearing, etc.
6906 Dust Blower and Conveyor:
   Include collector pipes, fittings, chains, rollers, sprockets, etc.
6907 Saws (Head, edger, cut-off)
   Include component parts.

70 MACHINE TOOLS AND RELATED EQUIPMENT:
   Note. For pneumatic tools see group 50, for arc welders see group 44
7001 Lathes:
   Include component parts and cutting tools.
7002 Shapers:
   Include component parts and cutting tools.
7003 Milling Machines:
   Include component parts and cutting tools.
7004 Planer, Surfacer of Jointer: (Woodworking equipment)
   Include component parts and cutting tools.
7005 Drills: Power Wrenches: (Other than pneumatic)
   Include component parts.
7006 Power Hammers: (Other than pneumatic)
   Include component parts.
7007 Power Grinders: (Other than pneumatic)
   Include component parts.
7008 Power Saws: (other than pneumatic)
   Include component parts.
7009 Heat Treating Equipment (Bake ovens, furnaces, etc.)
   Include component parts.
7010 Foundry Equipment (Forges, blast furnaces, etc.)
   Include component parts.
7011 Track Jacks, Shifters, Tampers:
   Include component parts.
71 SNOW REMOVAL, MOWING AND SWEEPING EQUIPMENT COMPONENTS
   **Note.** Following groups (7100 through 7103) apply generally to snow plows.
7100 Snow Plow Assembly
7101 Frames, Semi-Circles:
   Include brackets, braces, struts, handers, etc.
7102 Moldboard, Blades:
   Include side wings plowboards, shoes, attaching parts, etc.
7103 Feed and Discharge: Activating Mechanism:
   Include rotor, rake, blade, fan shafts, auger bearings, drive controls, tilting attachments, etc.
   **Note.** Following groups (7107 through 7115) apply generally to mowers and sweepers
7107 Pushbars:
   Include hinges, bellcranks, couplings, etc.
7108 Housing:
   Include power gears, bearings, seals, shields, etc.
7109 Crankshaft: Crankhead:
   Include bearings and related parts.
7110 Wheels and Axles:
   Include gears, pawls, bearings, etc.
7111 Cutter and/or Boom Assembly:
   Include cutting attachments, grass board, brooms, suspension drives, pitman, chain tightening devices, etc.
7112 Clutch and Clutch Controls:
   Include gears, shafts, and related parts.
7113 Lifting and Tilting Devices
7114 Spray System:

7115 Magnet, Lifting:
   Include components, leads, mountings, etc.

72 DISPENSING AND SERVICING EQUIPMENT COMPONENTS
7201 Lubricating Equipment:
   Include power and hand guns, reservoir, oilers, etc.
7202 Pumps and Meters:
   Include component parts.
7203 Valves, Fittings, Lines:
   **Note.** For hose reels, see group 18.
   For hose, see group 22

7204 Miscellaneous Parts and Accessories
7205 Brake Service Unit:
   Include component parts.
7206 Steam Cleaning Units:
   Include component parts.
7207 Brake Relining Machine:
   Include component parts.
7208 Saw Filing, Setting, and Retoothing Machines:
   Include component parts.
7209 Presses:
   Include component parts.

73 CONCRETE AND ASPHALT EQUIPMENT COMPONENTS (Mixers, pavers, spreaders, dust collectors, finishers, etc.)
7300 Major Assemblage: (Mixers, pavers, spreaders, dust collectors, finishers, etc.) (Insert applicable nomenclature and use groups following for sub-assembly breakdown).
7301 Power Loader Skip:
   Include skip extension leader, hoist, controls, counter shaft, and attaching parts.
7302 Drums (Mixer or dryer):
   Include drum drives, rollers, shafts, gears, transfer doors, mounting parts, etc.
7303 Controls (Machinery):
   Include all machine operating controls, taper, screed, vibrator, hoppers, gates, chutes, feeder controls, speed change lever, thickness and crown controls, etc.
7304 Hoppers, Gates, and Chutes:  
   Include charging and discharging doors opening and closing devices, attaching parts, etc.

7305 Main Drive:  
   Include countershfts, gears, sprockets, chains, belts, bearings, bearing housings, seals, retainers, oils, pulleys, chain tighteners, idlers, shims, spacers, guards, housings, covers, etc.

7306 Pugmill:  
   Include shafts, paddles, liners, bearings, arm tips, shims, spacers, fittings, oils, seals, bearing housings, etc.

7307 Feeding and Conveyor Frames:  
   Include supports, guards, flashing, wear plates, etc.

7308 Reciprocating and Vibrating Feeders or Conveyors:  
   Include traveling rollers, supports, support wheels, shafts bearings, oils, fittings, sprockets, pulleys, chains, associated and attaching parts, guards, extensions, etc.

7309 Vane or Screw Feeders or Conveyors:  
   Include shafts, bearings, bearing housings, seals, oils, fittings, belts, sprockets, pulleys, chains, attaching parts, guards, extensions, etc.

7310 Pan Feeder or Conveyors:  
   Include gears, sprockets, plates, pans, chains, belts, pulleys, oils, fittings, seals, retainers, shafts, cleats, drag pans, track, attaching parts, etc.

7311 Feeding or Conveyor Shaft:  
   Include gears, sprockets, belts, pulleys, bearings, seals, retainers, oils, fittings, head shafts, tail shafts, counter shafts, idlers, chain and belt tighteners, clutches, bearing housings, spacer, shims, attaching parts, etc.

7312 Feeder or Conveyor Discharge:  
   Include test gates, chutes, spouts, troughs, flashings, guards, wear plates, chains, cables, hooks, locks, supports, brackets, pins, attaching parts, etc.

7313 Screed, Vibrator Agitator:  
   Include shafts, chains, belts, sprockets, gears, gear box, seals, bearings, retainers, bearing housings, spacers, shims, brackets, supports, pulleys, end cutoff and deflector plates, attaching parts, etc.

7314 Tampers and Tamper Drive:  
   Include shafts, arms, hammers, extensions, bars, frames, brackets, plates, bearings, oils, seals, retainers, sprockets, chains, pulleys, eccentrics, clutch, flywheel, tamper, jackknife drive, guards, etc.

7315 Traction Drive:  
   Include wheels, shafts, bearings, retainers, seals, fittings, sprockets, chains, pulleys, oils, belts, etc.

7316 Form Oiler:  
   Include lines, fittings, tanks, strainers, etc.

7317 Material Spray Bar:  
   Include mounting and attaching parts.

7318 Tanks, Valves, Formed, Hoses, Lines, Fittings;  
   (For accessory hoses, see group 22).

7319 Water System:  
   Include nozzles, lines, tanks, valves, glands, drives, feed hand controls, etc.

7320 Boom and Attaching Parts

7321 Dust Collector Assembly:  
   Include mounting parts, drive components, ducts, housings, storage compartments, etc.

7322 Blower Assembly:  
   Include mounting parts, drive component parts, etc.

7323 Boomlift, Swing, Clutches, Gears, shafts, Bearings

7324 Bucket, Carrier Assembly, Trip Mechanism

7325 Bucket, Travel Drum, Clutches, Gears, Shaft and Bearings

7326 Screens:  
   Include attaching parts.

7327 Mechanical Level Indicator:  
   Include steering indicator, leveling arm and parts, level match gauge, attaching parts, etc.

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CRANES, SHOVELS, AND EARTH MOVING
EQUIPMENT COMPONENTS

Note. The following groups (7401-7407) apply to marine cranes.

7401 Crane:
Include swingerrack pivot assembly, turntable truck assembly, king pin assembly, boom foot securing assembly, fleeting sheave assembly, main load and auxiliary hoist lead sheave assembly, "A" frame hanger assembly, boom hanger assembly, main hoist load block assembly, auxiliary hoist load block assembly, main boom block sheave assembly, whip line load block assembly, boom point sheave assembly, cable assembly, etc.

7402 Hoist:
Include boom hoist drum assembly, main load drum assembly, whip line drum assembly, pillow block assembly, gear reducer assembly, drive shaft and pinion assembly, control shaft assembly, flexible coupling assembly, hydraulic brake assembly, hoist motor assembly, motor brake assembly, brake control assembly, brake band pawl assembly.

7403 Swinger:
Include brake assembly, motor assembly, flexible coupling assembly, gear reducer assembly, pillow block assembly, etc.

7404 Electrical Controls:
Include boom hoist control assembly, main line and whip line control assembly, swinger control assembly, master switch assembly, limit switch assembly, ammeter panel assembly, generator and main line control panel assembly, collector ring assembly, magnetic brake assembly, etc.

7407 Hull and Deck Machinery (accessories):
Include air horn and signal bell, anchor, anchor hoist, cable, cab heater, fresh water pump, fuel oil pump, lighting fixtures, floodlights, portable bilge pump, ballast pump, radio suppression rotary collector, running lights, trolley hoist, windshield wiper, light switch, unit heater, water circulating pump (see group 55 for breakdown), fuel oil transfer pump, hull fittings, etc.

Note. The following groups (7410-7427) apply to power cranes and shovels.

7410 Shovel Front Attachments:
Include boom shippershaft, crowd and rerack mechanism, dipper, handle, padlock block, etc.

7411 Crane Dragline or Clamshell Attachments
Include boom, jib mast, boom harness, safety boom stop hook block, tagline, fairlead, buckets, cables, pulleys, pins, bushings.

7412 Backhoe Attachments:
Include boom, mast, bucket, handles, pulleys, block, pull drum, cradle, telescopic harness, etc.

7413 Pile Drive Attachment

7414 Base Deck:
Including rotating base, catwalks, brackets and related parts.

7415 Clutch:
Include auxiliary clutch, hoist clutch, luffing clutch, propelling clutch, swing clutch, etc.

7416 Shafts:
Include drive shaft, drum shaft, slewing shafts, clutch shaft, jack shaft, center drive shaft, horizontal shaft, intermediate shaft, travel shaft, crowd shaft, swing shaft, (Use applicable heading).

7417 Hoists:
Include boom hoist, main hoist, swivel joints, tagline.

7418 Transmission Assembly:
Include speed reducer mechanism, bearings, couplings, gears, etc.

7419 Turntable:
Include turntable hubs, turntable pivot post, turntable rollers, swing lock, swing brake (when not a part of the swing shaft).

7420 Machinery Gear Case or Frame
7421 Independent or precision Boom Hoist
7422 Machinery Mechanism Controls
7423 Gantry
7424 Crawler Bed, Frame and Ring Gear

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Propel and Steering Mechanism
Mounting Base (other than crawler)

Miscellaneous Valves:
Include double check and check valves, pilot unloader, pressure regulator, quick release valve, diaphragm, relay release control retainer, reservoir release valve, safety, three-way shut-off valve, whistle, horn, etc.

Note. The following groups 7435-7443 apply generally to graders and dozers.

Moldboard Assembly:
Include blades, extensions, bits, ditching boots, back slopers, points, etc.

Lift Arms and Pivot Assemblies:
Include guides, shafts, cradles, rods, linkage, springs, steps, etc.

Loader Bucket Assembly or Forklift:
Include shafts, cutting edges, teeth, pins, bushings, springs, cables, chains, latches, etc.

Circle and Drawbar Assembly:
Include supports, connections, adjusting bars, adjusting brackets, lift shafts, tilt linkage, etc.

Circle Reverse Drawbar Side Shift and Lift Mechanism:
Include gear cases, gears, pins, bearings, shafts, universal joints, gaskets, seals, etc. (Include all drive parts up to power control unit, hydraulic motor or cylinder. If manually operated, include all drive parts and controls).

Scarifier Assembly:
Include drawbar, hinge rod or pins, bushings, angle adjusting items.

Scarifier Actuating:
Include lift shafts, arms, gear cases, gears, pins, bearings, bushings, drive shafts, universal joints, gaskets, seals, etc. (Include all drive parts up to power control unit or hydraulic motor or cylinder). If manually operated, include all drive parts and controls.

Leaning Frame Mechanism
Main Frame Assembly:
Include tripod, jack and mountings, etc.

Note. The following groups 7444-7448 apply generally to scrapers and dump wagons.

Main Body:
Include pulleys, pins, bearings, bushings, wedges, rollers, blocks, ground plates, etc.

Tail Gate Components:
Include tail gate, gate return rollers, pulleys, bearings, pins, wedges, springs, pull plates, etc.

Rear Truck Components:
Include pulleys, bearings, pins, etc.

Push Beam and Yoke Components:
Include push beam, yoke, fairleads, pulleys, bearings, pins, rollers, wedges, kingpins, universal yokes, etc.

Bowl and Discharge Components:
Include bowl tilting discharge, pulleys, pins, bearings, apron, etc.

Note. The following groups 7449-7465 apply generally to ditchers and trenchers.

Digging Wheels:
Include buckets, teeth, cutting edges, side cutters, rims, gear segments, rooters, etc.

Upper Trucks:
Include pillow blocks, shafts, wheels, collars, bearings, seals, etc.

Lower Trucks:
Include closures, bearings, seals, wheels, supports, etc.

Boom:
Include pulleys, pins, bearings, cables, clamps, thimbles, sliders, etc.

Digging Wheel Drive:
Include sprockets, bearings, boxes, seals, differential case, gear case, covers, gaskets, gears, pins, chains, idlers, springs, plates, etc. (Include all drive parts to main drive train).

Bucket Line:
Include buckets, links, teeth, side cutters, etc.

Bucket Line Boom:
Include rollers, pin, plates, guides, foot shafts, foot sprockets, bearings, idlers, pulleys, etc.

Boom Headshaft:
Include sprockets, gears, shafts, take-ups, safety sprockets, springs, pins, etc.

Note. The following groups 7449-7465 apply generally to scrapers and
7457 Boom Erection Sheave Shaft:
   Include pulleys, plates, spacers, collars, springs, etc.

7458 Boom Push Arms:
   Include trunnions, links, shafts, pins, shims, arms, boots, plates, pivot shafts, bearings, etc.

7459 Connecting Links:
   Include arms, angles, chains, pins, bushings, etc.

7460 Bucket Line Drive:
   Include sprockets, bearings, collars, chain idlers, controls, etc. (Cover drive from train to headshaft safety sprocket).

7461 Multiple Take-Off: (Line drive, main drive)
   Include jack shaft, sprockets, collars, flexible coupling, housings, clutch rollers, plates, forks, springs, shafts, etc.

7162 Conveyor Discharge:
   Include belts, drums, rollers, shafts, side shifters, gears, bearings, seals, guide hoists, lifts, etc.

7463 Follow Up Scraper:
   Include scraper, crumbling shoe, cutting edges, lift parts, hanger, push arms, springs, plates, pins, pivots, etc.

7461 Boom Hoist Assembly:
   Include drums, bearings, shafts, gears, clutch, jaws, shoes, spiders, bands, controls, etc.

7465 Rooters, Rippers, Plows, Harrows, and Rotary Tillers:
   Include component parts.

   **Note. The following groups (7466-7474) apply generally to road rollers.**

7466 Steering Rolls:
   Include axles, caps, plugs, seals, bushings, bearings, plates, etc.

7467 Center Rolls: (Three axle tandems)

7468 Drive Rolls:
   Include attached gears, axles, caps, plugs, seals, spikes, gaskets, etc.

7469 Rolls, Miscellaneous (Usually towed):
   Include axles, snow rolls, single tow rolls, cluster tow rolls, bearings, feet, feet bands, plugs, plates, gasket, etc.

7470 Roll Scrapers:
   Include blades, brackets, rods, springs, shafts, controls, linkage, etc.

7471 Sprinkler System:
   Include tank pipes, valves, regulators, mat, mat holder, shields, etc.

7472 Towing Wheel, Lowering and Elevating:
   Include jack box, handles, shafts, gears, bushings, plates, pins, etc. (See group 43 for hydraulic components).

7473 Lift and Swing Mechanism:
   Include frame boom, tower gears, shafts, bushings, clutch covers, bearings, seals, springs, locks, brakes, jack screw, mounting brackets, guide rails, spacer bars, centralizers, leg points, etc.

7474 Drive Mechanism:
   Include housings, shafts, bearings, bushings, gears, retainers, etc.

7475 Spindle and Cutter:
   Include chuck, helix, cutter lips, shutter plates, shanks, teeth, yokes, points, guards, etc.

7476 Feed and Leveling (Hand or mechanical):
   Include chain, chain guide and roller, shafts, eccentrics, sockets, bearings, gears, pinions, housing covers, recoil mechanisms, clutch, ratchet, cylinders, pistons, rods, packing, rings, bumpers, etc.

7477 Hand Control and Linkage:
   Include lever brackets, bushings, shafts, arms, yokes, rods, pins, valves, controls, bushings, springs, etc.

   **Note. The following groups (7478-7488) apply generally to well-drilling equipment.**

7478 Countershaft Assembly:
   Include clutches, wheels, bearings, retainers, seals, gears, belts, chains, etc.

7479 Bull Reel or Hoisting Drum:
   Include brakes, clutches, dividers, traveling blocks, hook shafts, bearings, mountings, sprockets, gears, etc.

7480 Sand Reel:
   Include clutches, brake divider, eccentrics, shafts, bearings, mountings, gears, etc.
7481 Crankgear and Pitman:
   Include pins, gears, bushings, blocks, arms, etc.
7482 Spudder Beams:
   Includes shafts, pulleys, springs, bearings, shoes, seats, heads, brackets, rods, etc.
7483 Rotary Table:
   Include drill heads, housings, yokes, chucks, locks, slides, kelles, bushings, etc.
7484 Cathead:
   Include gears, sprockets, bearings, mountings, shaft, drums, clutches, etc.
7485 Mud Pump:
   Include drive, power end, clutch, crosshead, cylinders, valves, water swivel, hoisting plug, bearings, seals, etc.
7486 Mast:
   Include crown block, mast head, hoist, stem guide, mast supports, shafts, bearings, mountings, pulleys, etc.
7487 Hand Controls and Linkage:
   Include yokes, levers, links, pins, rods, etc.
7488 Pipe, Hose, Valves, etc.:
   Note. See group 22 for hoses.
7499 Cables and Ropes: (Applies to reeving cables only).

75 CONVEYING, FEEDING AND CRUSHING, SCREENING AND WASHING EQUIPMENT COMPONENTS:
   Note. The following groups (7501-7508) apply to conveying and elevating equipment components.
7501 Belting, Chain:
   Include supports, hoppers, skirtboards, etc.
7503 Drums, Pulleys, Sprockets:
   Include bearings, shafts, etc.
7504 Rolls:
   Include bearings, shafts, etc.
7505 Clutch and Controls
7506 Shafts:
   Include countershafts, etc.
7507 Winding, Folding and Hoisting:
   Include Ratchets, drums, etc.
7508 Elevating Wheel:
   Include drum, shield, plates, shafts, rollers, etc.
   Note. The following groups (7510-7515) apply to feeding equipment components.
7510 Feeding Frames:
   Include hoppers, guards, etc.
7511 Reciprocating and Vibrating Plates and Grizzlies:
   Include traveling rollers, supports, support wheels and shafts, etc.
7512 Feeding Shafts:
   Include gears, clutches, eccentrics, etc.
7513 Feeder Discharge:
   Include test gates, chutes, spouts, and controls, etc.
7514 Vane Feeder:
   Include shafts, sprockets, chains, etc.
7515 Pan Feeder:
   Include plates, pans, chains, sprockets, shafts, cleats, etc.
   Note. The following groups (7520-7523) apply to crushing components.
7520 Crusher Frames:
   Include springs, hopper, spouts, etc.
7521 Crushing Jaws, Base and Pitman:
   Include wedges, springs, etc.
7522 Rolls:
   Include segments, spiders, etc.
7523 Shafts:
   Include gears, sprockets, pulleys, etc.
   Note. The following groups (7525-7529) apply to screening components.
7525 Screening Base, Box:
   Include supports, springs, hoppers, etc.
7526 Clutch Shafts:
   Include gears, idlers, etc.
7527 Screen Hoisting Mechanism
7528 Screens and Attaching Parts
7529 Eccentric or Gyrator Shaft:
   Include pulleys, housings, bearings, seals, shims, etc.
   Note. The following groups (7532-7536) apply to washing and dehydrating components.
7532 Drums, Hoppers, Chutes:
   Include baffles, liners, flumes, guards, etc.

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7533 Screw or Flight Shafts:
   Include bearings, collars, sprockets, gears, pulleys, etc.
7534 Piping, Valves, Hoses:
   Include couplings, fittings, nozzles, etc. See [group 22 or 26] for hoses.
7535 Mechanically Driven Lubricators
7536 Traction Drive: (Items not included in [groups 07, 11 or 13]).

76 FIRE FIGHTING EQUIPMENT COMPONENTS:
   Note. For platforms, walkways, ladders, etc., see Group 15.
7601 Fire Pump Assembly
7602 Relief Valve Assembly
7603 Control Relief Valve Assembly
7604 Priming Pump Assembly
7605 Primer Valve Assembly
7606 Drain Valve Assembly
7607 Clutch Operating Lever Assembly
7608 Propeller Shaft Assembly
7609 Engine Throttle Assembly
7610 Foam Proportioner Assembly (Includes Jet Ejector, Check Valve, Ball Valve, and Metering Valve.)
7611 Foam Turret Assembly
7612 Foam Tank Assembly
7613 Water Tan-r Assembly
7614 Hose Reel Assembly
7615 Instrument Housing Assembly (Includes all parts shown on Drawing 10572-15 and related parts.)
7620 Siren Assembly
7621 Warning Light Assembly
7622 Spotlights (Front and Rear)
7623 Dome and Engine Light Assemblies
7624 Turn Signal Light Assembly
7625 Storage Battery, 12 Volts
7626 Miscellaneous Electrical Equipment (Includes Battery Cables, Battery Charging Receptacles, Circuit Breakers, Wiring Harness, etc.)
7627 Heater, Vehicular Compartment

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and coils, transformers and condensors.

7706 Reverberation Unit (Sound):
   Include fluid type or dry type, coil driver unit, coil springs, crystal, reflecting pin.

7707 Pedal Switch Assembly:
   Include busbars, contact springs, terminals, choke coil, resistors, filters, pistons, contact.

7708 Amplifier:
   Include capacitors, connectors, tubes, reactors, sockets (tube), condensors, transformers.

7709 Loudspeaker:
   Include coil, transformer, cone, frame.

7710 Cable:
   Include cable (power, electric), cable (special purpose electric), connectors and sockets.

7711 Miscellaneous Attachments:
   Include items not covered in groups 7701 thru 7710 above.

80 STORAGE EQUIPMENT COMPONENTS:
   Note. Include all empty containers which are recoverable type items, for example: acetylene containers, oxygen containers, steel or metal drums which are reusable and can be recharged, etc. This group will also cover transportable or skid mounted tanks such as used for Lox storage.

8000 Major Assemblage: (Instructions: Insert end item or major component nomenclature)
   Include component parts.

84 NUCLEAR POWER PLANTS:
   Note. Groups 8400, 8500, 8600 and 8700 inclusive are to be used for nuclear power equipment exclusively. All components will be kept in these indexes and not referred to other indexes.

8400 Nuclear Components: (Primary System)
8401 Vapor Container:
   Include doors, seals, sprays, etc.
8402 Rod Drive Sump Pump
8403 Reactor
8404 Pressure Vessel
8405 Core Assembly:
   Include fuel elements
8406 Control Rod
8407 Drive Mechanism
8408 Motor
8409 Drive Shaft Assembly
8410 Clutch Drive Assembly
8411 Water Seal Assembly
8412 Instrument Bracket Assembly
8413 Pressurizer
8414 Primary Coolant and Fill Pumps
8415 Motor
8416 Pump
8417 Steam Generator (Heat Exchanger):
   Include lines, fittings, thermocouple, etc.
8418 Seal Leakage System:
   Include valve switches, lines, fittings, etc.
8419 Seal Assemblies
8420 Seal Leakage Pumps
8421 Motors
8422 Pump
8423 Tank
8424 Primary Coolant Blowdown System:
   Include cooler piping
8425 Primary Coolant Blowdown Pump
8426 Motor
8427 Water Cooler
8428 Control Valves (Electrical)
8429 Control Valves (Pneumatic)
8430 Monitoring (Radiation)
8431 Demineralizers
8432 Filters:
   Include elements, gaskets, seals, etc.
8433 Measuring Devices:
   Include conductivity, temperature, pressure flow meters, etc.
8434 Primary Coolant Make-Up System:
   Include tank, lines, fittings, etc.
8435 Make-Up Pump
8436 Pump
8437 Variable Speed Drive
8438 Motor
8439 Lubricator
8440 Transmission

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8441 Filters
8442 Control Valves:
  Include check valve, safety valve, etc.
8443 Gages
8444 Differential Pressure Converter:
  Include safety valve, pressure switch alarm, etc.
8445 Hydrogen System:
  Include flow indicator pressure control, helium valve, etc.
8446 Moderator Water System
8447 Shield Water System
8448 Spend Fuel Pit Storage and Chute:
  Include chute plug, cover, etc.
8449 Fuel Shipping Container
8450 Movable Platform
8451 Recirculating Pumps
8452 Pump
8453 Motors
8454 Contaminated Waste System:
  Include hot waste tank, tank pressure indicator, level control, temperature indicator, etc.
8455 Reprocessing Skids:
  Include tanks, lines, fittings, etc.
8456 Hot Waste Discharge Pumps
8457 Pumps
8458 Motors
8459 Laboratory Waste Storage Tank:
  Include level indicator, line, fittings, etc.
8460 Water Ejector

85 NUCLEAR COMPONENTS: (Secondary System)
8501 Feedwater System:
  Include feedwater heater and lines.
8502 Boiler Feed Pumps
8503 Electric Motor:
  Include controls.
8504 Steam Turbine:
  Include controls.
8505 Pumps
8506 Evaporator:
  Include lines, flow meters, etc.
8507 Regulating Valves
8508 Preheater

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8551 Turbine Gage Board
8552 Condenser
8553 Air Ejector
8554 Inter Condenser
8555 After Condenser
8556 Flow Control Valves
8557 Controller
8558 Manual Load Station
8559 Transmitter
8560 Reduction Gear
8561 Generator
8562 Generator Exciter
8563 Space Air Cooler
8564 Skid Frames and Shock Mounts: (Portable units only)
8565 Process Tubing and Hardware
8566 Bus and Switch Gear
8567 Circuit Breakers
8568 Transformers
8569 Relays
8570 Batteries
8571 Inverter, Converter/and Rectifier Charger
8572 Seal Pit Monitor Pump
8573 Pump
8574 Motor
8575 Chemical Feed Pump
8576 Pump
8577 Motor
8578 Chemical Feed Tank
8579 Steam Traps and Strainers
8580 Gages
8581 Thermometers
8582 Pipe Pit Sump
8583 Pump
8584 Motor
8585 Oxygen and PH Analyzer

8600 NUCLEAR COMPONENTS. (System Controls and Instrumentation)
8601 Control Room
8602 Operators Console
8603 Annunciator Panel
8604 Rod Control Panel
8605 Miscellaneous Control Panel
8606 Front Graphic Panel
8607 Rear Graphic Panel
8608 Electrical Panel
8609 Generator Section
8610 Station Service Section
8611 Battery and Motor Control Section
8612 Synchronizing Section
8613 Nuclear Panel
8614 Radiation Panel

87 NUCLEAR COMPONENTS. (Auxiliary Equipment and Plant Accessories)
8701 Air Conditioner
8702 Heating System
8703 Closed Circuit Television
8704 Public Address System
8705 Sanitary System
8706 Fire Protection System
8707 Storage Containers and Gas Cylinders
8708 Fuel Element Replacement Equipment
8709 Operator Tools, Common
8710 Operator Power Tools
8711 Operator Tools, Special
8712 Maintenance Tools, Common
8713 Maintenance Team Tools, Special
8714 Radiation Monitoring Stations, (fixed)
8715 Radiation Monitoring Devices, (portable)
8716 Test Equipment, Chemical
8717 Test Equipment, Electrical
8718 Test Equipment, Instruments
8719 Test Equipment, Mechanical
8720 Chemical Supplies
8721 Hardware Supplies, Common
8722 Hardware Supplies, Special
8723 Electrical Supplies, Common
8724 Instrument Components
8725 Maintenance and Operating Supplies
8726 Hoist
8727 Portable Demineralizer
8728 Decontamination and Vent Fans
8729 Vacuum Pump
8730 Radiation Counting Equipment
8731 Laundry Equipment
8732 Washer
8733 Dryer

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CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL (CBR) EQUIPMENT

9110 Collective Protection Equipment
9111 Gas Particulate Filter Units
   Include precleaner, housing assembly, motor-blower assembly, gas filter, particulate filter, etc.
9112 Control Systems
   Include control panels, flow control valves, pressure sensitive switches, alarm assembly, indicators, etc.
9113 Shipping and Storage Containers
9114 Liners
9115 Protective Entrances
   Include mounting and attaching frames, permeable membrane doors, light and communication assemblies, etc.
9116 Associated Kits
   Include installation kits, modification kits, repair kits, tool kits, test kits, etc.
9120 Decontamination Equipment
9121 Tank Assembly
   Include covers, agitators, hoppers, valves, attached piping, etc.
9122 Power Systems
   Include engine and all associated controls, gages, and fuel system, all components of power take-off system, etc.
9123 Discharge Hoses
   Include gun assemblies, couplings, reels, etc.
9124 Suction Hoses
   Include footvalve and strainer.

Shower Assembly
Include piping, brackets, supports, etc.

Pump Assembly
Include valves, controls and piping.

Prime-Foam Tank Assembly
Include valves and controls.

Water Heaters
Include all components and accessories for the heater.

Special Tools and Accessories
Include all special tools, accessories, repair parts kits, and components not included under previous headings.

Warning and Detection Systems

Chemical Agent Alarms
Include all components and associated items.

Personnel Detectors

Chemical Agent Detection Kits

Radioactive Test Kits

Personnel Protection Equipment

Masks and Respirators
Include filter, eye lens, water drinking equipment, resuscitation equipment, voicemitter, microphone, carrier, etc.

Breathing Apparatuses
Include the tanks, harness assembly, carrying case, winterization kit, tools, etc.

Protective Suits and Overgarments
Include gloves, boots, hoods, etc.

GENERAL USE STANDARDIZED PARTS

Hardware Supplies and Bulk Materiel, Common

PARTS PECULIAR

Multi-Listed Parts
By Order of the Secretary of the Army:

HAROLD K. JOHNSON,
General, United States Army,
Chief of Staff.

Official:
KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

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