

# SYSTEMS AND EQUIPMENT

FOR

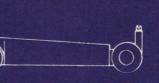
AIRCRAFT · MISSILE · and SPACE VEHICLE GROUND SUPPORT

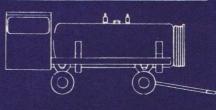
AIR LOGISTICS CORPORATION

3600 E. FOOTHILL BOULEVARD • PASADENA, CALIFORNIA 91109

TELEPHONE AREA CODE 213 795-9971 • 681-1101 (S)

TELEX NO. 67-5350





# THIS CATALOG...

presents a brief functional description, major dimensions and operational characteristics of the component elements comprising the AIR-LOG GROUND SUPPORT SYSTEM for

- AIRCRAFT
- MISSILES
- SPACE VEHICLES





# BASIC ELEMENTS

OF THE AIR-LOG SYSTEM

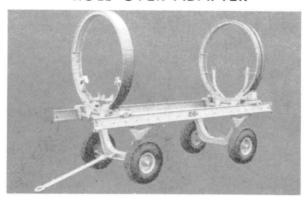
POSITIONING TRAILER

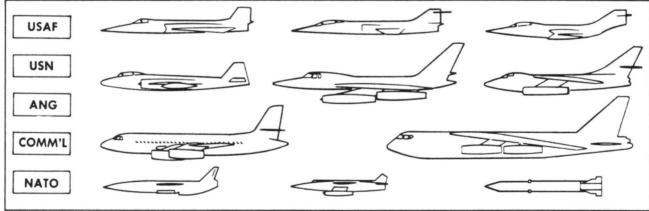


ENGINE HANDLING ADAPTER



**ROLL-OVER ADAPTER** 





# APPLICATIONS

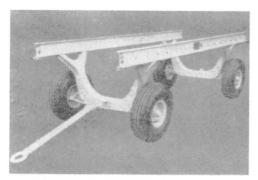
OF THE BASIC
AIR-LOG SYSTEM

REMOVAL AND INSTALLATION OF COMPONENTS	POSITIONING TRAILERS
AIR AND GROUND TRANSPORTATION	TRANSPORTATION TRAILERS
BUILD-UP AND TEST	WORKSTANDS ENGINE REPAIR & TEST SUB-SYSTEMS
INSPECTION AND REPAIR	WORKSTANDS MONORAIL HOISTS ROLL-OVER ADAPT.
STORAGE	WORKSTANDS TRANSP. TRAILERS

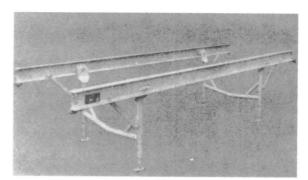


AIR

L D G I S T I C S

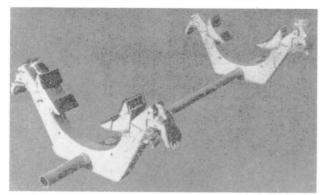


TRANSPORTATION TRAILER

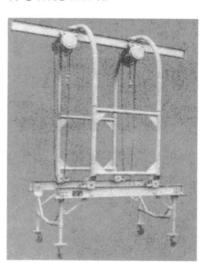


WORKSTAND





MONORAIL HOIST



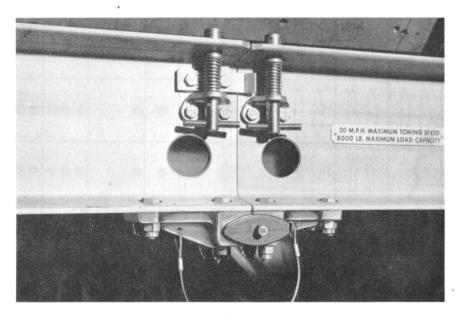
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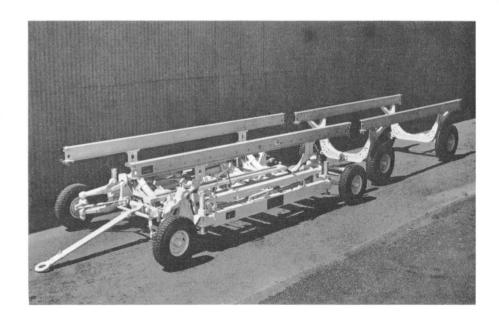
Above: Built-up, "A" section rail for extra heavy duty.

Below: Solid, "I" section rail used on most Air-Log System elements.



## MATCHING RAILS

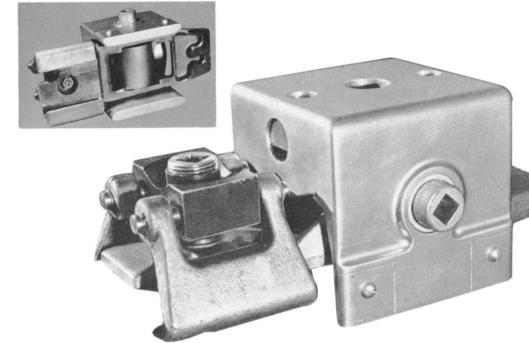
All elements of the AIR-LOG SYSTEM incorporate MATCH-ING RAILS with quick operating rail end couplings which permit mating of the POSITIONING TRAILERS and other elements of the system to form a CONTINUOUS RAIL. This operation normally is accomplished by two men in approximately 90 seconds. This continuous rail feature, together with the ROLLER ADAP-TERS, makes it possible to ROLL-TRANSFER engines and components between the POSITIONING TRAILERS and the transportation, repair or storage elements of the AIR-LOG system without the use of ANY OTHER HANDLING EQUIPMENT. ELIMINATION of heavy and cumbersome CRANES, HOISTS, SLINGS, etc., REDUCES THE COST, MAN HOURS AND HAZARD in handling operations and IMPROVES the OVERALL MOBILITY of the support system.

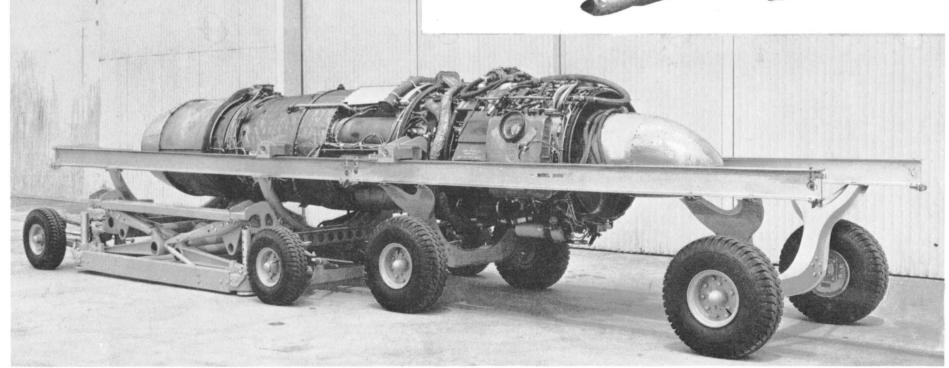




# ROLL TRANSFER

The standard ROLLER ADAPTERS provide the rolling elements between the various ENGINE and COMPONENT ADAPTERS and the rails. Each ROLLER ADAPTER includes a CLAMPING BRAKE and a ROLLER DRIVE which permits the use of standard socket drive ratchets or speed handles to roll the load along the rails.





## POSITIONING TRAILERS ....

These hydraulically actuated precision units are the key elements in all Air-Log low-level, horizontal handling systems. The positioning trailer, as implied by the designation, is used to position jet engines, rocket segments, and aircraft and missile components for installation and removal or in any similar operation requiring three-dimensional handling of the load.

Positioning is achieved and precisely controlled through a combination of hydraulic and mechanical actuators which produce pitch, roll, yaw, and transverse movement together with vertical lift.

All models are equipped with hand operated hydraulic pumps; "B" designated models are built for use with the 2400 Series Electro-Hydraulic Power Pack.

Other design features include:

Retractable wheel suspension, on all models except the lightweight 1030, is hydraulically controlled. This feature permits full retraction os the trailer chassis or partial lowering to adjustable stanchions for solid positioning.

90 degree wheel rotation, on all but the Model 1030, permits sidewise mobility and "pinwheel" rotation of the positioning trailer.

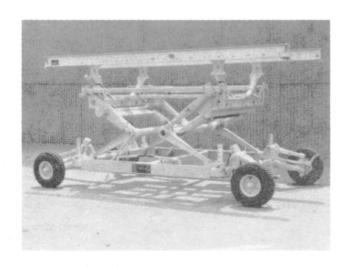
Centerline winches, on Models so equipped (see following table), facilitates movement of heavy loads when rails are inclined.

The broad range of capacities, rail gauges and other pertinent information appear on the following data table.





The 15000-pound capacity MODEL 6200 POSITIONING TRAILER shows integral power pack and inching wheel drive

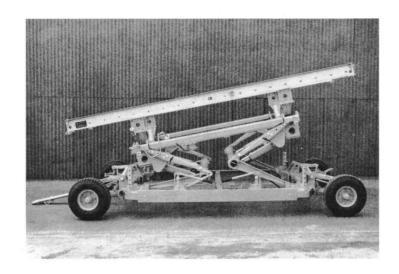


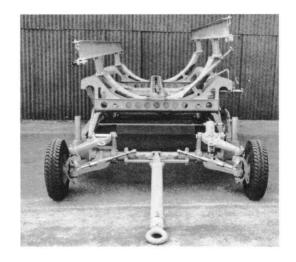
Standard, MODEL 4000A POSITION-ING TRAILER is an 8000-pound capacity unit.

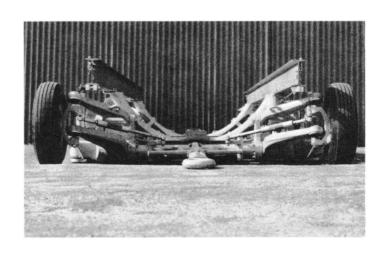


Lightweight, MODEL 1030, positions engines and components up to 3000 pounds.









## **POSITIONING TRAILERS**

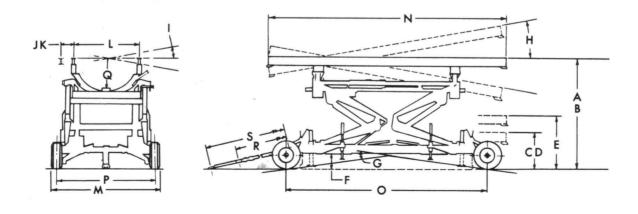
#### MAJOR DIMENSIONS AND OPERATIONAL DATA

Note "B" Models are Equipped for Installation of the 2400 Series Power Pack

	MODEL	1030	4000A 4000B	4060	4072	4100 4100B	4120 4120B	4160 4160B	4172	6200
A B C D	Capacity (pounds) Max.Rail Ht. (Spacer) " "w/o Spcr. Min.Rail Ht.w/Spcr.	3000 57.0	8000 89.0 82.0 31.5 24.5	8000 90.0 85.0 32.5	91.0	10,000 115.0 110.0 34.0 29.0	10,000 122.3 37.3	10,000 118.0 113.0 37.0 32.0	10,000 115.0 34.0	15,000 85.13
EFGHIJK	" " w/o Spcr. Transpt. Ht.w/o Spcr. Ground Clear Ramp Angle Clear Tilt Angle (Rail) Roll Angle (Rail) Yaw Angle (Rail) Lateral Movement	$ \begin{array}{c} 22.0 \\ 33.0 \\ 0-5.0 \end{array} $ $ \begin{array}{c} +10^{\circ} \\ 7^{\circ} \\ -3^{\circ} \\ 2.0 \end{array} $	35.5 0-11.0 N/A + 10° + 10° + 2.25° + 3.0	27.5 38.5 0-11.0 N/A + 10° + 2.5° + 3.0	34.0 45.0 0-11.0 N/A + 10° + 10° - 2.25° + 3.0	39.5 0-10.5 N/A + 10° + 1.75° + 3.0	47.8 0-12.5 N/A + 10° + 15° + 1.75° + 3.0	42.5 0-10.5 N/A + 10° + 8° + 1.75° + 3.0	44.5 0-10.5 N/A + 10° + 10° + 1.75° + 3.0	29.0 37.13 0-8.13 20° + 7-1/2° - 5° - 2° + 4.0
LX ZOPQ	Rail Spacing Max. Width Max. Length(w/o Towbar) Rail Length Wheel Base Wheel Tread Radial or Vert. Clear-	48.0 61.2 117.0 85.0 95.0 54.0	78.0 78.0 152.0 152.0 126.0 72.0 16.5 R.	60.0 78.0 152.0 152.0 126.0 72.0	72.0 80.5 152.0 152.0 126.0 72.0	48.0 78.0 174.0 174.0 148.0 72.0 16.5	90.0 96.0 174.0 174.0 148.0 72.0	60.0 78.0 174.0 174.0 148.0 72.0 23.0	72.0 84.0 174.0 174.0 148.0 72.0	48.0 94.35 186.0 186.0 154.0 85.0
RS	ance Below Rail Caps Towbar (Min.) Towbar (Max.) Tire Size Tire Inflation Towing Speed Unit Weight (pounds) 90° Wheel Rotation Screw Adjust. Outriggers Adjust. Steady Rests Engine Removal Winch Self-Power "Inching" Integral Power Pack Nat. Stock No.	48.0 48.0 4.00x8 80 psi 20 mph 1300 No No No No No	2600 Yes No Yes Yes No No 1730-00-	44.5 72.0 6.00x9 100 psi 20 mph 2500 Yes No Yes No No	44.5 72.0 6.00x9 100 psi 20 mph 3000 Yes No Yes Yes No No	to 21.5 44.5 72.0 6.00x9 100 psi 20 mph 3400 Yes Yes Yes No No 1730-00-	44.5 72.0 7.50x10 100 psi 20 mph 3700 Yes No Yes No No No	to 28.0 44.5 72.0 6.00x9 100 psi 20 mph 2950 Yes No Yes No No	44.5 72.0 6.00x9 100 psi 20 mph Yes Yes Yes Yes No No	72.0 120.0 24x7.7 150 psi 20 mph 7000 Yes No Yes No Yes Yes 1730-00-
	Air-Log Part No.	108918	528-6616 100628A 106700	106354	105854	554-4799 102650 106100	105997 106269	107159 106933	106005	724-9610 107242

\*4000A only

\*\*4100 shown; 4100B Stock No. 1730-00-655-8064



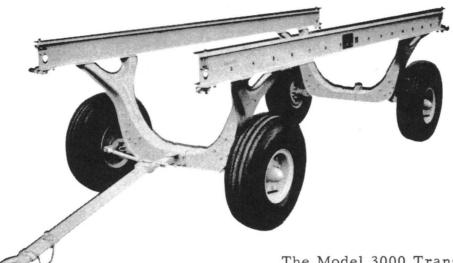


# TRANSPORTATION TRAILERS & STANDS....

Air-Log transportation trailers provide for air, truck and ground transportation of jet engines, rocket segments, aircraft and missile components and stores.

Rugged, simplified design permits higher net load capacities, at the same time insuring load protection under all transport conditions by virtue of the mixed spring rates involved in the combination of rails, frame and tires.

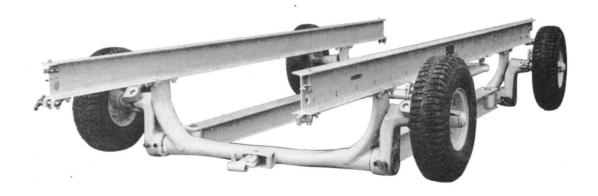
Load capacities, rail gauges and other design data for trailers and stands are listed in the following tables.



The Model 3000 Transportation Trailer. This Air-Log System element, an Air Force standard unit, has been in wide use in this country and abroad since 1954.



The 60 inch Model 3060 Double-End Steering Transportation Trailer. Other models in this category are the 60 inch 3060A and 3060B, the 48 inch 3000F and 3000G.



The 48 inch retractable Model 3030 Transportation Trailer. Other retractable models are the 48" 3010 and heavy duty 15000 lb capacity 6400, and the 60" models 3032 and 3060C.



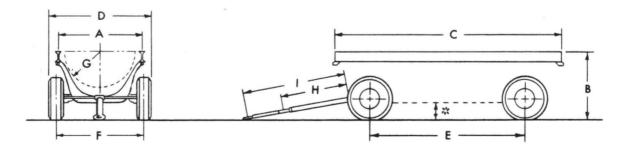
## TRANSPORTATION TRAILERS

### MAJOR DIMENSIONS AND OPERATIONAL DATA

	MODEL	1200	1210	1230	1240	2000	3000	3000A	3000B
A	Capacity (pounds) Rail Spacing	3000 30.0	4500 48.0	3000 30.0	3000 48.0	4000 48.0	8000 48.0	8,000 48.0	8000 48.0
CD	Rail Height Rail Length Max. Width	18.2 115.0 66.4	34.4 152.0 96.0	32.0 108.0 42.3	27.5 88.0 58.5	38.0 108.0 54.0	40.0 132.0 58.5	40.0 152.0 58.5	34.0 152.0 73.4
E	Max. Length(w/o towbar) Wheel Base Wheel Tread	115.0 90.0 60.4	152.0 90.0 88.0	108.0 72.0 36.3	88.0 68.0 54.0	108.0 72.0 46.0	132.0 90.0 50.0	152.0 92.0 50.0	152.0 90.0 65.0
	Radial or Vert. Clear- ance Below Rail Caps	6.1	18.5	13.0	18.0	21.0	21.5	21.5	21.5
H	Towbar Min. Towbar Max. Tire Size	60.0 6.00x9	60.0 7.50x10	44.5 72.0 6.00x9	49.0 4.00x8	44.5 72.0 6.00x9	44.5 72.0 7.50x10	44.5 72.0 7.50x10	44.5 72.0 7.50x10
	Tire Inflation Towing Speed	30 psi 20 mph	25 psi 25 mph	40 psi 20 mph	60 psi 20 mph	30 psi 20 mph	30 psi 20 mph	30 psi 20 mph	30 psi 20 mph
	Unit Weight (pounds) Rear Wheels Steerable Nat. Stock No.	450 No	700 No 1450-00-	400 No 1740-00-	380 No	350 No 1740-00-	500 No 1740-00-	700 No 1740-00-	680 No R1740-00-
	Air-Log Part No.	105332	726-1119 106051	690-5284 107238	108969	516-7929 100334	516-7930 100315	680-2910 105021	589-7082 104904

		3000D	3000E	3000F	3000G	3000H	3000J	3010	3020
A B C D E F G H I	Capacity (pounds) Rail Spacing Rail Height Rail Length Max. Width Max. Length(w/o towbar) Wheel Base Wheel Tread Radial or Vert. Clear- ance Below Rail Caps Towbar Min. Towbar Max. Tire Size Tire Inflation Towing Speed Unit Weight (pounds) Rear Wheels Steerable Nat. Stock No. Air-Log Part No.	8000 48.0 34.0 152.0 73.4 152.0 90.0 65.0, 21.5 44.5 72.0 7.50x10 30 psi 20 mph 710 No	8000 48.0 40.0 152.0 58.5 152.0 92.0 50.0 21.5 44.5 72.0 7.50x10 30 psi 20 mph 593 No 1740-00- 770-9859 107640	8000 48.0 34.0 152.0 73.4 152.0 90.0 65.0 21.5 44.5 72.0 7.50×10 30 psi 20 mph 730 Yes	8000 48.0 40.0 152.0 58.5 152.0 92.0 50.0 21.5 44.5 72.0 7.50x10 30 psi 20 mph 645 Yes	c 62 The 3000H is identical to the 3000A c 10 Except for a 7210-11510 towbar and c 20 Except for a front of rail position.	12,000 48.0 40.0 152.0 58.5 152.0 92.0 50.0 21.5 44.5 72.0 7.50×10 30 psi 20 mph 735 No	8000 48.0 21.5-35.0 132.0 73.0 132.0 101.7 67.0 17.5 44.5 72.0 6.00x9 100 psi 20 mph 750 No 1740-00- 554-1667 104624	8000 90.0 40.0 152.0 99.5 152.0 90.0 92.0 24.0 44.5 72.0 7.50x10 30 psi 20 mph 750 No

(Continued)





AIR LOGISTICS CORPORATION

	MODEL	3030	3032	3060	3060A	3060B	3060C	6300	6400
A B C D E F G	Capacity (pounds) Rail Spacing Rail Height Rail Length Max. Width Max. Length(w/o towbar) Wheel Base Wheel Tread Radial or Vert. Clear-	8000 48.0 21.5-35.0 152.0 73.0 152.0 90.0 67.0	8000 60.0 19.0-46.7 152.0 88.5 152.0 90.0 82.5 22.0/	8000 60.0 34.0 132.0 85.4 132.0 90.0 77.0	8000 60.0 39.0 132.0 85.4 132.0 90.0 77.0	10,000 60.0 34.0 132.0 85.4 132.0 90.0 77.0	8000 60.0 30.2-50.0 132.0 77.5 132.0 90.0 71.0	15,000 48.0 34.0 152.0 78.0 152.0 90.0 68.0	15,000 48.0 *** 26.0-35.5 136.0 84.5 136.0 106.0 76.5 17.0
H	ance Below Rail Caps Towbar Min. Towbar Max. Tire Size Tire Inflation Towing Speed Unit Weight (pounds) Rear Wheels Steerable Nat. Stock No. Air-Log Part No.	44.5 72.0 6.00x9 100 psi 20 mph 770 No 1740-00- 580-0494 105722	15.0 44.5 71.5 6.00x9 100 psi 20 mph 800** Yes	44.5 72.0 7.50x10 30 psi 20 mph 750 Yes	44.5 72.0 7.50x10 30 psi 20 mph 775 Yes	44.5 72.0 7.50x10 30 psi 20 mph 850 Yes	44.5 72.0 6.50x10 100 psi 20 mph 750** Yes	5',10' or 15' 7.50x10 75 psi 20 mph 850 No	72.0 120.0 24x7.7 75 psi 20 mph 3,450 Yes 1740-00- 724-9611 107261

#### Model 3032

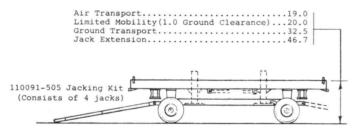
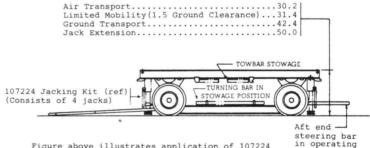


Figure above illustrates application of 110091-505 Jack Kit to Model 3032 Trailer. Jacks are used as interim support when retracting or raising the loaded trailer. For the Model 3032, spacers are available up to 7" to increase the radial and vertical clearance below rail caps.

#### Model 3060C



position

Figure above illustrates application of 107224 Jack Kit to Model 3060C Trailer. Jacks are used as interim support when retracting or raising the loaded trailer.

- Retracting wheels allow the trailer to rest on a sub-frame during air or truck transportation. A limited mobility position raises sub-frame 1.5 to 2.0 inches from floor. Models 3030 and 3060C incorporate shear-type shock absorbers which isolate the sub-frame from the upper rail assembly.
- \*\* Weight without ground jacking kit which consists of four hand hydraulic units supporting the trailer at rail-ends.
- \*\*\* Wheel support arms actuated by hydraulic rams vary the rail height at either end of the trailer to maintain near-level attitude while negotiating loading ramps.
  - t Rubber Cushion Tires



## **WORKSTANDS...**

Air-Log workstands are designed to provide a portable, lightweight facility for build-up, inspection, repair or storage of jet engines, rocket segments and aircraft and missile components.

All stands incorporate the parallel, matching rail feature which permits their use singly or coupled as a stationized assembly line installation. This same feature also permits use of the 4600 Series Monorail Hoists and the 4500 Series Rotational Adapters as rolling, rail mounted inspection and repair fixtures.

Capacities, rail gauges and other pertinent design features are listed in the following tables.

The Model 3100A, Adjustable Height Workstand. This element is a widely used standard for maintenance, minor repair and storage.

utilized for maintenance and storage of engines and components ranging to 10000





pounds.



## **WORKSTANDS**

#### MAJOR DIMENSIONS AND OPERATIONAL DATA

	MODEL	1400	1440	3100	3100A	3100B	3100E	3109	3110
A B C D E F G H I	Capacity (pounds) Rail Spacing Rail Height (max.) Rail Height (min.) Rail Length Max. Width Radial or vert. clear- ance below rail caps Leg Base Leg Tread Rail-end overhang from leg center Folding Demountable Caster Mounted Unit Weight (pounds) Nat. Stock No. Air-Log Part No.	3000 30.0 19.0 16.0 115.0 39.0 90.0 37.0 12.5 No Yes No 160	3000 48.0 27±.5 88.0 52.8 20.0 58.0 48.0 15.0 No Yes No 300	8000 48.0 33.0 30.0 152.0 52.8 21.5R 90.0 42.1 31.0 Yes Yes No 247 4920-00- 293-8429 101830	8000 48.0 39.0 30.0 152.0 52.8 21.5R. 90.0 42.1 31.0 Yes Yes No 280 4920-00- 589-6831 101830 -501	2200 48.0 30.0** 39.0** 84.0 52.8 21.5R 74.0 42.1 5.0 Yes Yes Yes 248 4920-00- 086-6900 102915	1 20 40 C Identical to 3100B except for 2.6 C larger casters which add 6.8 C 2.0 to height.	750 9.0 29.5 30.0 3.0 21.5 26.0 4.25 No No Yes 120	10,000 48.0 39.0* 152.0 53.0 21.5R 46.4 (x2) 48.0 Yes Yes No 470 4920-00- 625-4268 105011

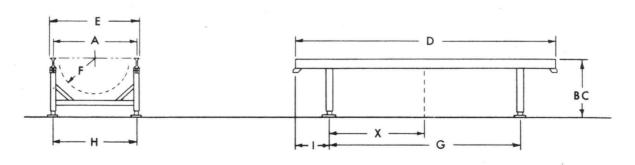
		3120	3160	3160A	3160B	3160C	3170†	6500
A B C D E F	Capacity (pounds) Rail Spacing Rail Height (max.) Rail Height (min.) Rail Length Max. Width	10,000 90.0 39.0* 30.0* 152.0 95.0	8000 60.0 33.0 30.0 152.0 64.8	8000 60.0 39.0* 30.0* 152.0 64.8	2200 60.0 30.0** 39.0** 84.0 64.8	8000 60.0 35.0 31.0 152.0 66.3	NOTE † 48.0 28.0 152.0 55.0	15,000 48.0 *** 43.31 29.31 152.0 52.8
GHI	Radial or vert. clear- ance below rail caps Leg Base Leg Tread Rail-end overhang	27.0 92.8 90.0	21.5 90.0 54.1	21.5 90.0 54.1	21.5 74.0 54.1	23.3 90.0 60.0	18.0 83.9 45.25	22.2R 42.0 (x3) 48.0
	from leg center Folding Demountable Caster Mounted Unit Weight (pounds)	29.6 Yes Yes No 442	31.0 Yes Yes No 290	31.0 Yes Yes No 290	5.0 Yes Yes Yes 230	31.0 No Yes Yes 700	34.0 No No Yes 775	13.0 No Yes No 650
	Nat. Stock No. Air-Log Part No.	105186	106288	106761	106320	107218	4920-00- 769-1808 106267	4920-00- 724-9612 107303

\* Adjustable in 3.0 inch increments with screw adjust of  $\pm$  1.5 inch.

\*\* Adjustable in 3.0 inch increments

\*\*\* Adjustable in 2.5 inch increments with screw adjust of  $\pm$  2.0 inch.

† A portable, engine test stand; 30,000 lb. thrust capacity. The unit is mounted on solid wheels, castering at the aft end.





IR LOGISTICS CORPORATION

4920-00-

796-1808

# MONORAIL HOISTS . . . .

The Model 4600 Series Hoists are monorail, dual hoist assemblies of medium to heavy duty capacity, available in rail mounted or castered configuration. By rolling on or straddling the rails of a workstand line, either type may be utilized for stationized engine repair and build-up.

Additional data and design details are shown on the following pages.

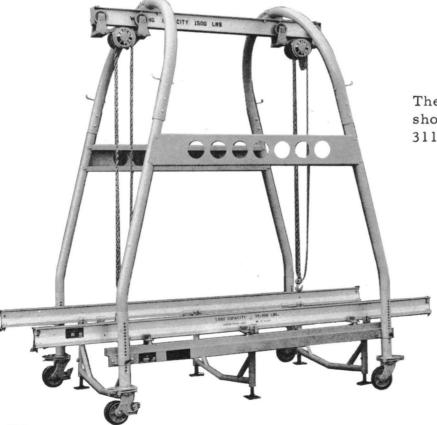


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Models 4600 and 4600A Monorail Hoists, Left to Right. Both hoists are equipped with Standard Roller Adapters for use as rolling elements on the Air-Log twin rail minor repair system.

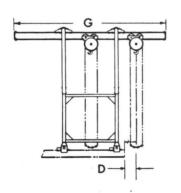


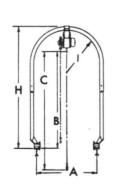
The Model 4630 Monorail Hoist shown in position with a Model 3110 Workstand.

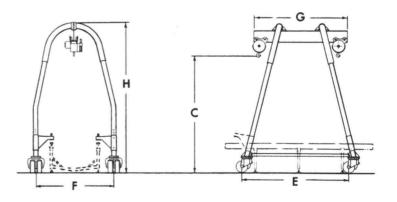
# MONORAIL HOISTS

#### MAJOR DIMENSIONS AND OPERATIONAL DATA

	MODEL	4600	4660	4600A	4660A	4600B	4620	4630
A B C D	Rail Mounted  Rail Spacing Capacity: (pounds) Between Supports Any point on rail Max. Lift from Rails Total Lift Rail-end Overhang (max.)	48.0 8000 4000 78.0 108.0 25.0	60.0 8000 4000 78.0 108.0 25.0	48.0 4400 2200 77.8 96.0 25.0	60.0 4400 2200 77.8 96.0 25.0			
CEF	Floor Mounted, Castering Straddle Clearance For:  Alignment Fixtures For: Capacity: (pounds) Between Supports Any point on rail  Total Lift Caster Base Caster Tread	,				3000 Series 8000 112.0 110.0 80.0	48.0 Stands 48.0 Stands 8000 4000 120.0 110.0 80.0	48.0 Stands 48.0 Stands 1500
G H	General  Hoist Travel Monorail Length Max. Height: From Rails From Floor Yoke Radius (clearance) Unit Weight (pounds) Nat. Stock No.  Air-Log Part No.	106.5 117.5 108.0 26.5 560 1730-00- 604-1668 104955	106.5 117.5 108.0 26.5 560	105.5 121.5 97.7 26.5 693 1730-00- 627-1370 102651	105.5 121.5 97.7 26.5 693	75.0 96.0 154.0 2500	66.0 96.0 154.0 2540	74.2 91.0 140.5 685







**RAIL MOUNTED** 

**FLOOR MOUNTED** 



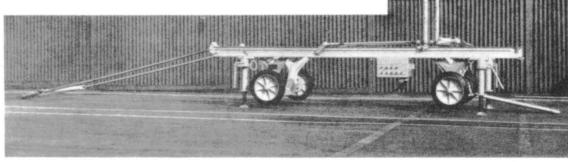
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# RUN-UP & TEST EQUIPMENT . . . .

- The Model 12,000C Jet Engine Run-Up and Test System provides a light weight universal, mobile and inexpensive means of running and testing turbojet engines. The system will handle engines up to 33,000 pounds thrust, regardless of make, model or QEC configuration. The components such as control booth, fuel tank, tie-down, load banks are packaged on the module principle allowing these components to be used together as a unit or separately if the condition so dictates. Also, the module principle simplifies the maintenance.
- The Model 2750 Agra Shell Dispenser is a portable, lightweight unit which is utilized for carbo-blast cleaning of jet engines. The Model 2750 is an approved, standard design, refined to its present status following a program of prototype field testing conducted in close cooperation with the U.S. Air Force. Results of field tests show a significant improvement in engine power, reduced RPM, exhaust temperature and fuel consumption, in addition to greatly reduced maintenance costs and engine "down time".







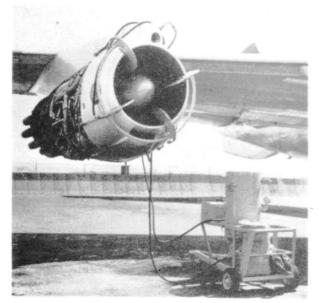
The MODEL 12000 ENGINE RUN-UP and TEST System elements.

Above: Operator's cab, Power sec-

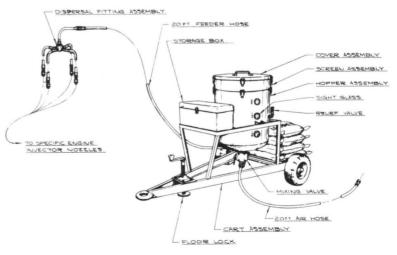
tion and Auxiliary Fuel Tank

Below: Engine Thrust Stand with

Tie-Down Apparatus



The MODEL 2750 AGRA SHELL DIS-PENSER. Photo at left shows the prototype in one of many field test runs.



## **RUN-UP AND TEST SYSTEMS**

### MAJOR DIMENSIONS AND OPERATIONAL DATA

MODEL 12,000 C

CONTROL C	AB & FUEL	ENGINE TRAILER &	x				
TANK ASSEM	IBLY	TIE - DOWN ASSEMBLY					
Length Height Width Fuel Capacity Cab Weight Trailer Weight Tank Weight	222 inches 84 inches 62 inches 1000 gallons 900 pounds 725 pounds 900 pounds	Length Height Width Trailer Weight Tie-Down Weight Jacks and Stabilizer Weight	180 inches 40 inches 58 inches 725 pounds 300 pounds				
	Weight - 3750 pe		200 pounds				
Control booth accommodates two operators.  Input power is 208 VAC 400 Cycle/28 VDC, or 208 VAC 60 Cycle 15 KVA  Fuel tank has a capacity of 1000 gallons complete with necessary piping, pressure feed systems and safety provisions.							
	AIR-LOG PA	RT NO. 109018					

MODEL 273	
O/A Height O/A Width O/A Length Average Engine Cleaning Time	51.0 48.0 98.0 98.0
AIR-LOG PART NO.	109120

#### DISPENSER INJECTOR KIT ORDERING GUIDE

AIR-LOG PART NO.	ENGINE	BELLMOUTH MFG.
109230 109231 109388 109389 109376 109375 109375 109391 109392 109512	J57 J57 J57 J57 J75 J75 J79 J47 J47 J47 JT3C-6 7 &12	Pratt & Whitney North American Mc Donnell Pratt & Whitney Republic General Electric General Electric



# ACCESSORY EQUIPMENT

The Model 2400 series Power Pack units offer a selection of electrically driven, hydraulic units which may be used on any "B" designated positioning trailer.

The power packs, which vary to suit particular electrical requirements and hydraulic flow rates, are self-contained units which include a selective valving system which operates in lieu of the standard hand pumps.

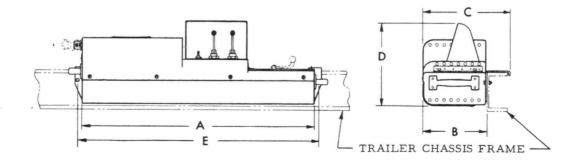
The hand pumps are not blocked out of the trailer system, and may be used to augment the power pack when fine positioning is necessary.

# HYDRAULIC ACCESSORIES MAJOR DIMENSIONS AND OPERATIONAL DATA



The Model 2400 Power Pack, showing protected operating levers. Clean, compact design is typical of the series of auxiliary hydraulic units.

	MODEL	2400	2410	2410A
	Motor	2 HP, 2500 RPM, 110/220 VAC, 3 PH 400 Cycle	2.5 HP, 3600 RPM, 220/440 VAC, 3 PH 60 Cycle	2.5 HP, 3400 RPM 110/220 VAC, 1 PH 60 Cycle
	Flow Rate	0.90 GPM @ 3000 PSI, 0.45 Ea. Outlet	1.34 GPM @ 3000 PSI, 0.67 Each Outlet	1.28 GPM @ 3000 PSI 0.64 Each Outlet
A	Length	36.0	36.0	36.0
В	Width (Basic)	8.70	9.62	9.62
C	Width (Incl. Bracket)	12.30	13.25	13.25
D	Height	12.75	12.75	12.75
E	Dim. Between Bracket Mount Holes	37.10 to 37.14	37.10 to 37.14	37.10 to 37.14
	Unit Weight	56 Lbs.	80 Lbs.	104 Lbs.
	Nat. Stock No.	1730-00-654-8389		
	Air-Log Part Number	105421	106111	106118





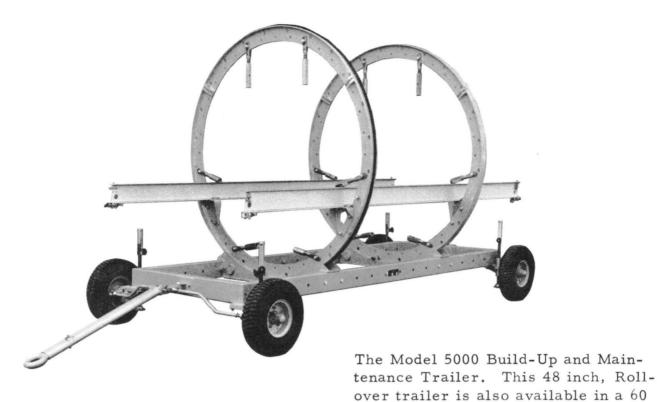
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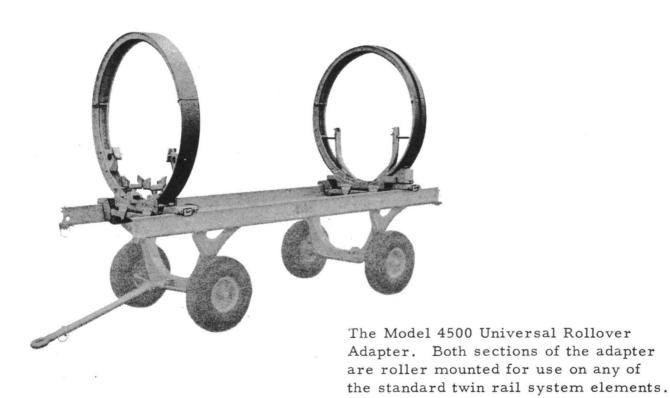
# BUILD-UP TRAILERS & ADAPTERS....

The Model 5000 Series Trailer and 4500 Series Roll-Over Adapter provide a 360 degree axial rotation capability which greatly speeds and simplifies build-up, inspection and repair of jet engines.

Capacities, dimensions and general design data are listed in the following tables.





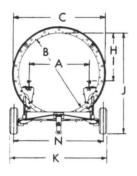


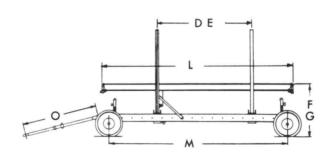
inch version as the Model 5060.

## **BUILD-UP TRAILERS AND ADAPTERS**

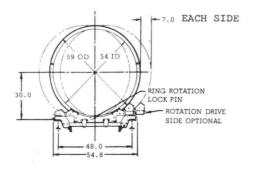
#### MAJOR DIMENSIONS AND OPERATIONAL DATA

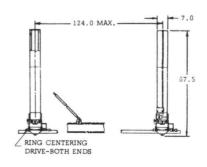
	MODEL	5000	5060
BCDEFGHIJKLM	Capacity Rail Spacing Inside Ring Diameter Outside Ring Diameter Distance Between Rings (min) Distance Between Rings (max) Normal Rail Height Alt. Rail Height Normal Clearance Above Rails Alt. Clearance Above Rails O/A Height O/A Width Rail Length Wheelbase Wheel Tread Towbar Length Nat. Stock No. Air-Log Part No.	8000 lbs. 48.0 64.0 72.0 24.0 126.0 45.0 39.0 37.5 43.5 82.5 75.5 152.0 141.0 69.0 44.5 - 72.0 1740-00- 534-0595 101671	8000 lbs. 60.0 72.25 82.0 8.5 118.5 44.3 46.0 90.6 82.0 152.0 141.0 69.0 44.5 - 72.0





MODEL	4500
Capacity Weight Rotation	4500 lbs. per ring 675 lbs. 360°
Nat. Stock No. Air-Log Part No.	1730-00- 574-2110 102930







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## ADAPTERS....

Air-Log adapters are divided into two basic categories:

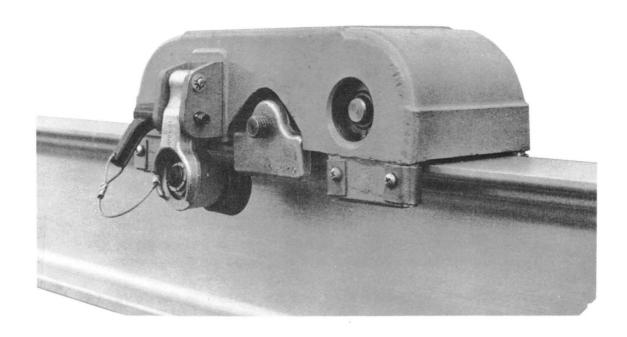
ROLLER ADAPTERS..... The standard, single and double roller adapters are the rolling element between the various component adapters and the rails of the system.

The various types are illustrated and described in the following pages of this section.

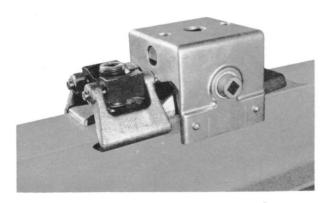
COMPONENT ADAPTERS.... The variable element which results in the multiple purpose capability of the Air-Log System and the system elements themselves. In this group are component handling adapters of varying types, engine transportation installation and run-up adapters.



### **ROLLER ADAPTERS**



The Model 2620 Roller Adapter is used in two or four point support applications and is equipped with an up-load roller for use in assymetrical load conditions. When clamping brake is fully backed off and up-load roller is swung out, the Adapter may be lifted vertically from the rail.



Model 2550 Single Roller and 2610 Double Roller Adapters. All Air-Log Standard roller adapters are fitted with clamping brakes, and may be operated



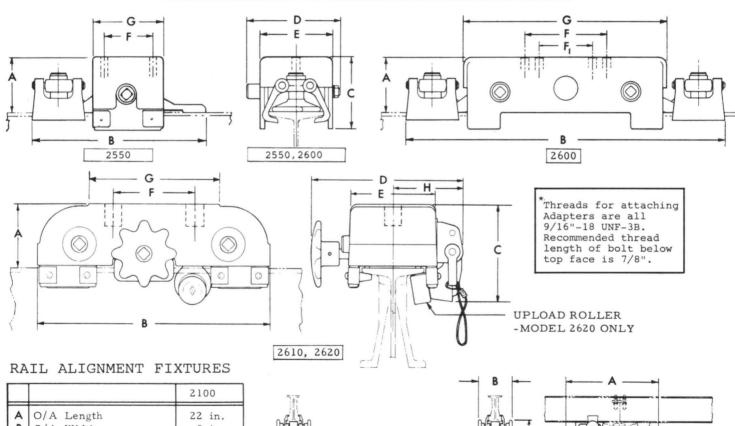
with a standard, 1/2 inch square socket drive. The center brake, Model 2610 may be fitted with an upload roller, becomes Model 2620.



## **ROLLER ADAPTERS AND RAIL FIXTURES**

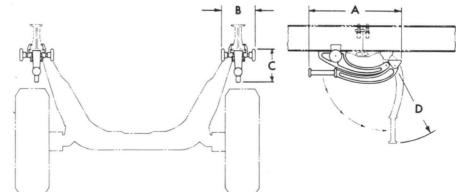
#### MAJOR DIMENSIONS AND OPERATIONAL DATA

	2550	2600	2610	2620
Working Capacity (down)	5500	5000	7500	7500
(up)	650	1500	650	650
(side)	650	700	1000	1000
Ultimate Braking Cap.	7000	14,000	7000	7000
Dimension A	3.38	3.38	3.38	3.38
В	10.50	19.50	12.50	12.50
С	4.375	4.40	4.37	5.25
D	5.25	5.65	6.96	8.15
E	4.61	4.44	4.52	4.52
F	3.25	5.00	5.00	5.00
F,		3.25		
G	4.53	12.50	6.90	6.90
Н			2.56	3.75
Weight (pounds)	11.5	28.0	18.5	19.0
Nat. Stock No.	1730-00- 986-3702		1730-00- 606-4138	
Air-Log Part No.	104568	100882	105710	105612



		2100
	O/A Length O/A Width	22 in. 8 in.
C	O/A Height Clearance Arc	8 in. 18.4 in.
	Unit Weight Nat. Stock No.	22 lbs. 1730-00-
	Air-Log Part No.	631-6419 105904*

<sup>\*</sup>Kit contains two(2) fixtures. Part no. for single fixture is 105275.

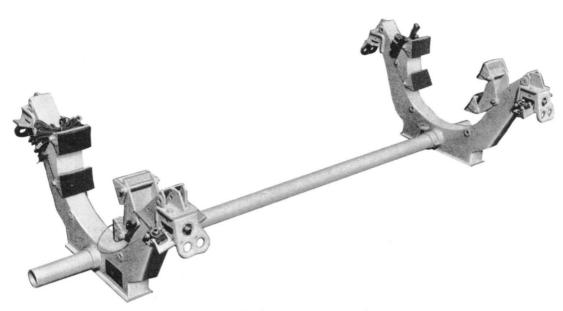




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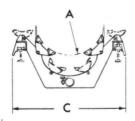
## **COMPONENT ADAPTERS**

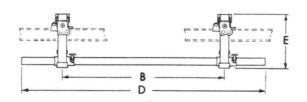
#### MAJOR DIMENSIONS AND OPERATIONAL DATA



Model 3500 Universal Component Adapter. Quick-change, pin mounted pads carry shapes ranging from 15 inches in diameter to a flat surface.

	MODEL 3500 SERIES (General)						
A B	Range of Adaptability Distance Be- tween Yokes	13.0 Dia. to Flat Surface 9.60 to 111.40	C D E	O/A Width O/A Length O/A Height Unit Weight	55.50 120.00 26.00 260 Lbs.		
	3500			3500A	3500B		
	Capacity Nat. Stock No. No. Air-Log Part No.	8,000 Lbs. 1730-00- 534-0570 101719		10,000 Lbs.	12,000 Lbs.		







AIR LOGISTICS CORPORATION

#### ENGINE HANDLING ADAPTER INDEX

The JT8D Engine Handling Adapter illustrated below is typical, in its category, of the adapters and adapter kits listed in the following index.

In the index, the absence of aircraft designation in the right hand column indicates a general application of that adapter without specific reference to any particular aircraft.





## ENGINE HANDLING ADAPTER INDEX

ENGINE	NUMBER	DESCRIPTION	AIRCRAFT
J57	102884 102908	ADAPTER KIT - INST. & REMOVE, AFT FUSELAGE ADAPTER KIT - INSTALL (-P4)	F8U F8U
	102959	ADAPTER KIT - INSTALL (-P6)	A3D
	105001	ADAPTER KIT - INST. AND TRANS (-P43)	KC-135
	105002	ADAPTER KIT - DIFFUSOR CASE	B-52
	105003	ADAPTER KIT - INST. AND ROLL (P1 TO P31)	ш
	105004	ADAPTER KIT - TRANSPORT (-P1 TO P31)	II .
	105006	ADAPTER KIT - TRANSITION (-P1 TO P31)	п
	105064	ADAPTER KIT - TRANSPORT A/B LOW	
	105065	ADAPTER KIT - TRANSPORT A/B HIGH	
	105066	ADAPTER KIT - TRANSPORT NON A/B	
	105562	ADAPTER KIT - INST. AND ROLL (-P43)	B-52G
	105901	ADAPTER KIT - TRANSPORT (-P43)	B-52G
	105902	ADAPTER KIT - TRANSITION (-P43)	B-52G
	106107	ADAPTER KIT – BLEED PORT	
	201017	ADAPTER KIT - RUN-UP (-P6)	A3D
	201018	ADAPTER KIT – RUN-UP (-P4)	F8U
	201027	ADAPTER KIT – RUN-UP A/B BARE	
	201029	adapter kit – run-up non A/B	
	E3289	ADAPTER PACK INSTALL. (-P7)	F-100
		ADAPTER PACK A/B HANDLING	F-100
		ADAPTER ASSY - INST. AND TRANS	F-101
		ADAPTER ASSY – INST. AND TRANS	F-101
		ADAPTER ASSY – ROLLOVER	F-101
	CVSE 1114	ADAPTER ASSY - INST. AND ROLLOVER	F-102
J65	102860	ADAPTER KIT - INST. & REMOVE AFT FUSELAGE	A4D
	102860-501	ADAPTER KIT - INST. & REMOVE AFT FUSELAGE	A4D
	102867	ADAPTER KIT - INSTALL (-16)	A4D
	105067	ADAPTER KIT - TRANS	
	105363	ADAPTER KIT – TRANS (QEC)	A4D
	201019	ADAPTER KIT - RUN-UP (-16)	A4D
J69	107119	ADAPTER KIT - TRANSPORTATION	
J71	101164	ADAPTER KIT - INST & TRANS (-3, -9, -11)	B-66
	105069	ADAPTER KIT - TRANSPORTATION	

ENGINE	NUMBER	DESCRIPTION	AIRCRAFT
J73	105073 104408 106959 107142 107152	ADAPTER KIT - TRANSPORTATION ADAPTER KIT - TRANSPORTATION INTERMEDIATE SUPPORT ADAPTER KIT - ALL EXCEPT ROLLOVER FITTING - TRANS & RUN-UP	F-106
J79	105604-501 105605-501 105865 106853	ADAPTER KIT - INSTALLATION (-3) ADAPTER KIT - ROLLOVER (-3) ADAPTER KIT - TRANS (-1, -3, -5, & -7) KIT - AUXILIARY JACK	F-104
J85	107659	ADAPTER KIT - INST & RUN-UP (PROTO)	T-38
T-53	108823 201028	TRANSMISSION HANDLING ADAPTER ENGINE TRANS	H-43B
JT3	106282	ADAPTER KIT - INSTALL & TRANS	707
	106316 106707 107304 107429	ADAPTER KIT - BLEED PORT ADAPTER KIT - INST & TRANS (W/BOX) ADAPTER KIT -COMBINATION JT3 - JT4 ADAPTER KIT - INST & TRANS (W/O BOX)	DC-8 707 DC-8
JT3C-7	107790 108547	ADAPTER KIT - INST & TRANS ADAPTER KIT - TRANS (48" SYSTEM)	707 707
JT3D-8	109260 109012 114222-501 116621	ADAPTER KIT - INST. REMOVE & TRANS ADAPTER KIT - INST. REMOVE & TRANS ADAPTER KIT - INST. REMOVE & TRANS ADAPTER KIT - INST. REMOVE & TRANS	707-720 DC-8 DC-8 707-720
JT4	106315	ADAPTER KIT - INSTALL & TRANS	707
	106317 107109 107304 107306 107424-501 PWA 8740 (& DETAILS)	ADAPTER KIT - BLEED PORT ROLLOVER FITTINGS (FOR 5060) ADAPTER KIT - COMBINATION JT3 - JT4 ADAPTER KIT - ADJUSTABLE ADAPTER KIT - INST & TRANS (SLING) ADAPTER ASSY - REPAIR (& DETAILS)	707 707 DC-8
	107680 107424	ADAPTER KIT – COMBINATION ADAPTER KIT – INSTALL & TRANS (COMPATIBLE WITH DACO HOIST)	DC-8 & 707 DC-8
	107853 107854	ADAPTER KIT – DIFFUSER CASE ADAPTER KIT – INLET CASE	

ENGINE	NUMBER	DESCRIPTION	AIRCRAFT
JT8D	114966	ADAPTER KIT – INST REMOVE & TRANS	DC-9 48" RAIL SYSTEM
	111042 111042-501 111042-503 111042-505 111042-507 116884 114215	ADAPTER KIT - INST REMOVE & TRANS	DC-9 727 727 727 727 727 727 727 737
JT12	110072	ADAPTER KIT - TRANSPORTATION	C-140
CJ 805	104882 107059	ADAPTER ASSY - INST & TRANS ADAPTER ASSY - INST & TRANS (60")	880 880
CJ 805-21 (FAN)	107646	ADAPTER KIT - INSTALLATION	600
CJ 805-23 (FAN)	108877	ADAPTER KIT - INSTALLATION	990
CONWAY	107275-501	ADAPTER KIT - INSTALL & TRANS	DC-8 & 707
AVON 522	107110 107123	ROLLOVER FITTINGS FOR 5060 ADAPTER KIT – INSTALL & TRANS	CARAVELLE CARAVELLE

install & trans



108773

**ORPHEUS** 

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#### PROPRIETARY ITEM

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