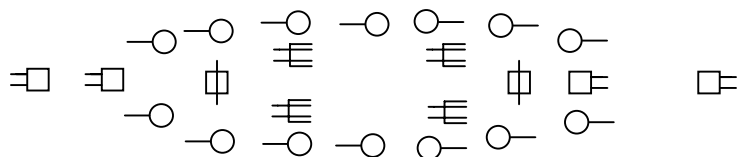


# Kongo

<u>Navy Class</u>	Imperial Japanese Navy Battlecruiser	<u>Date</u>	1940						
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>						
Main Battery:	14 inch guns in 4 twin turrets	38 inches	Fore and aft						
Secondary Battery:	6 inch guns in 14 single casemates	21 inches	Port and starboard						
Anti-air Battery	5 inch guns in 4 twin mounts	14 inches	Port and starboard						
<u>Gun:</u>	5"      10"      15"      20"      25"      30"      35"      38"	<u>Power</u>	<u>Relia</u>						
14 inch twin	A/8      8/8      6/8      5/7      4/6      3/2      2/0      1/0	7	B						
6 inch single	A/10      8/8      3/5      2/2      1/-1	5	B						
5 inch twin	A/10      8/6      2/2      1/-2	4	B						
<u>Speed</u>	3.75 inches	16 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±0	20.5"-22.5": ±1	24": ±3		
<u>Flotation</u>	Total: 66	DIW: 33	Sinking: 44						

## Armament Arrangement



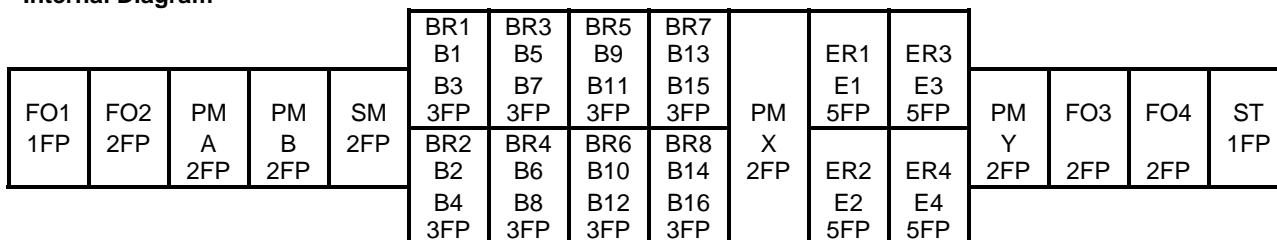
## Notes

- Four ships in class, including Kongo, Hiei, Kirishima, Haruna
- Where the hit chart indicates that a location with secondary armament is armored, only the secondary armament is armored.

## Hits

Fuel Oil 1	11-12	Void							
Fuel Oil 2	13-14	Void							
Main Magazine A	15-21	Main A							
Main Magazine B	22-24	Main B							
Secondary Magazine	25	Bridge, Secondary 1 or 2, Forward Primary Director							
Boiler Room 1 or 2	26	Bridge,							
Boiler Room 1 or 2	31	Bridge, Antiair 1 or 2, Secondary 3 or 4							
Boiler Room 3 or 4	32	Searchlight 1 or 2, Secondary 5 or 6							
Boiler Room 3 or 4	33	AAMGs, Funnel							
Boiler Room 5 or 6	34	Secondary 7 or 8							
Boiler Room 5 or 6	35	AAMGs							
Boiler Room 7 or 8	36	Catapult, Aircraft, Secondary 9 or 10							
Boiler Room 7 or 8	41	Funnel, Searchlight 3 or 4, AAMGs							
Primary Magazine X	42	Secondary 11 or 12, Anti-air 3 or 4							
Primary Magazine X	43-45	Main X							
Engine Room 1 or 2	46	Secondary 13 or 14							
Engine Room 1 or 2	51-52	AAMGs							
Engine Room 3 or 4	53-55	Void							
Main Magazine Y	56-62	Main Y							
Fuel Oil 3	63	Void							
Fuel Oil 3, Propshaft 1 or 2	64	Void							
Fuel Oil 4, Propshaft 3 or 4	65	AAMGs							
Steering	66	Steering							

## Internal Diagram



# Aoba

Navy Imperial Japanese Navy      Date 1941  
Class Heavy cruiser

Surface Armament

Main Battery: 8 inch guns in 3 twin turrets  
 Secondary Battery: 4.7 inch guns in 4 single mounts  
 Torpedoes: 24 inch torpedoes in 2 quadruple mounts  
 8 reloads  
 3 special hits

Ranges

32 inches  
 16 inches  
 22 inches at 6.00"  
 35 inches at 5.00"  
 44 inches at 4.50"

Directors

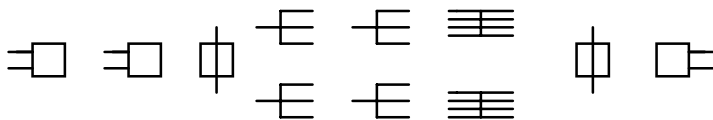
Fore and aft  
 Port and starboard  
 Port and starboard

<u>Gun:</u>	5"	10"	15"	20"	25"	30"	32"	Power	Relia
8 inch twin	A/10	8/9	6/7	4/5	3/0	2/0	1/0	6	B
4.7 inch single	A/9	8/5	2/2	1/-2				4	B

Speed 4.25"      12 boilers      4 engines      Torpedo Hits 17.7"-18": ±1      20.5"-22.5": ±2      24": ±3

Flotation Total: 63      DIW: 32      Sinking: 42      Bulge -1 to torpedo hits in way of 22 -52

**Armament Arrangement**



Notes

- Class included Aoba and Kinugasa.

**Hits**

Fuel Oil 1	11-14	Void
Main Magazine A	15-21	Main A
Main Magazine B	22-23	Main B
Boiler Room 1	24	Bridge, AAMGs
Boiler Room 1	25	Secondary Director 1 or 2, Bridge
Boiler Room 1	26	Main Director, Bridge
Boiler Room 2 or 3	31	Torpedo Director, Bridge
Boiler Room 2 or 3	32	Secondary 1 or 2, Funnel, Searchlight 1 or 2
Boiler Room 2 or 3	33	Funnel
Boiler Room 4 or 5	34	Funnel
Boiler Room 4 or 5	35	Secondary 3 or 4
Boiler Room 4 or 5	36	Funnel
Boiler Room 6 or 7	41	AAMGs
Engine Room 1 or 3	42	Aft Main Director
Engine Room 1 or 3	43	Torpedo 1 or 2
Engine Room 1 or 3	44-45	Catapult, Aircraft
Engine Room 2 or 4	46	Catapult, Aircraft
Engine Room 2 or 4	51-53	Void
Main Magazine C	54-56	Main C
Fuel Oil 2, Propshaft 1 or 2)	61-62	Void
Fuel Oil 3, Propshaft 3 or 4)	63-64	Void
Steering	65	: Steering
Void	66	Void

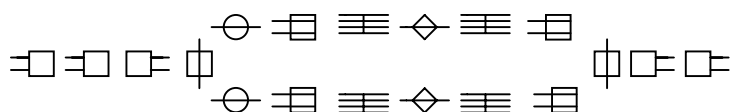
**Internal Diagram and Torpedo Hits**

FO1 3FP	PM A 2FP	PM B 2FP	BR1 B1 B2 4FP	BR3 B3 B4 4FP	4FP B5 B6	BR5 B7 B8 4FP	4FP B9 B10	BR7 B11 B12 2FP	ER1 E1 E2 6FP	ER3 E3 E4 6FP	PM X 2FP	FO2 2FP	FO3 2FP	ST 1FP	V 1FP
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# Chokai/Maya

<u>Navy</u>	Imperial Japanese Navy		<u>Date</u>	1941					
<u>Class</u>	Heavy cruiser								
<u>Surface Armament</u>			<u>Ranges</u>		<u>Directors</u>				
Main Battery:	8 inch guns in 5 twin turrets		32 inches		Fore and aft				
Secondary Battery:	4.7 inch guns in 4 single mounts		16 inches		Port and starboard				
Torpedoes:	24 inch torpedoes in 4 twin mounts		22 inches at 6.00"		Port and starboard				
	8 reloads		35 inches at 5.00"						
Maximum Value:	9		44 inches at 4.50"						
<u>Gun:</u>	5"	10"	15"	20"	25"	30"	32"	Power	Relia
8 inch twin	A/10	8/9	6/7	4/4	3/0	2/-1	1/-1	6	B
4.7 inch single	A/9	8/5	2/2	1/-2				4	B
<u>Speed</u>	4.25"	12 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±3		
<u>Flotation</u>	Total: 66	DIW: 33	Sinking: 44	<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54				

## Armament Arrangement



## Notes

- Chokai and Maya were not refitted with their sisters.
- Takao had Chokai's secondary battery until April 1942, Atago until May 1942.

## Hits

	Fuel Oil	11-15	Officers Berths
	Main Magazine A	16-21	Main A
	Main Magazine B	22-23	Main B
	Main Magazine M	24-25	Main M
	Secondary Magazine	26	Officers Berths
	Boiler Room 1	31	Bridge, AAMGs
	Boiler Room 2	32	Forward Main Director, Funnel, Bridge
	Boiler Room 3	33	Port or Starboard Secondary Director, Torpedo 1 or 2, Torpedo Director
	Boiler Room 4 or 5	34	Secondary 1 or 2, AAMGs
	Boiler Room 6 or 7	35	Port or Starboard Reloads, Searchlight 1 or 2
	Boiler Room 6 or 7	36	Void
	Boiler Room 8 or 9	41	AAMGs, Torpedo 3 or 4
	Boiler Room 8 or 9	42	Aft Main Director, Searchlight 3 or 4, Secondary 3 or 4
	Engine Room 1 or 2	43-45	Port or Starboard Catapult, Aircraft
	Engine Room 3 or 4	46-51	Aircraft
	Main Magazine X	52-53	Main X
	Main Magazine Y	54-55	Main Y
	Fuel Oil 2	56-62	Crew Berths
	Fuel Oil 3, Propshaft 1 or 2	63	Crew Berths
	Fuel Oil 3, Propshaft 3 or 4	64	Crew Berths
	Steering	65	Steering
	Aft Void	66	Aft Void

## Internal Diagram

FO1 2FP	MM A 2FP	MM B 2FP	MM M 2FP	SM 1FP	BR1 B1 4FP	BR2 B3 4FP	BR3 B5 4FP	BR5 B7 2FP	BR7 B9 2FP	BR9 B11 2FP	ER1 E1 6FP	ER3 E3 6FP	MM X 2FP	MM Y 2FP	FO2 2FP	FO3 2FP	ST 1FP	V 0FP
								BR4 B8 2FP	BR6 B10 2FP	B8 B12 2FP	ER2 E2 6FP	ER4 E4 6FP						

# Furutaka

Navy Imperial Japanese Navy      Date 1941  
Class Heavy cruiser

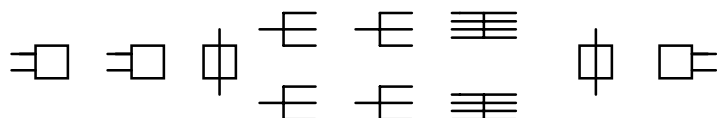
<u>Surface Armament</u>	<u>Ranges</u>	<u>Directors</u>
Main Battery: 8 inch guns in 3 twin turrets	32 inches	Fore and aft
Secondary Battery: 4.7 inch guns in 4 single mounts	16 inches	Port and starboard
Torpedoes: 24 inch torpedoes in 2 quadruple mounts	22 inches at 6.00"	Port and starboard
8 reloads	35 inches at 5.00"	
Maximum Value: 9	44 inches at 4.50"	

<u>Gun:</u>	5"	10"	15"	20"	25"	30"	32"	Power	Relia
8 inch twin	A/10	8/9	6/7	4/5	3/0	2/0	1/0	6	B
4.7 inch single	A/9	8/5	2/2	1/-2				4	B

Speed 4.25"      12 boilers      4 engines      Torpedo Hits 17.7"-18": ±1      20.5"-22.5": ±2      24": ±3

Flotation Total: 63      DIW: 32      Sinking: 42      Bulge -1 to torpedo hits in way of 22 -52

## Armament Arrangement



## Notes

- Class included Furutaka and Kako.

## Hits

	Fuel Oil 1	11-14	Void
	Main Magazine A	15-21	Main A
	Main Magazine B	22-23	Main B
	Fuel Oil 2	24	Bridge, AAMGs
	Boiler Room 1	25	Secondary Director 1 or 2, Bridge
	Boiler Room 1	26	Main Director, Bridge
	Boiler Room 1	31	Torpedo Director, Bridge
	Boiler Room 2 or 3	32	Secondary 1 or 2, Funnel, Searchlight 1 or 2
	Boiler Room 2 or 3	33	Funnel
	Boiler Room 2 or 3	34	Funnel
	Boiler Room 4 or 5	35	Secondary 3 or 4
	Boiler Room 4 or 5	36	Funnel
	Boiler Room 4 or 5	41	AAMGs
	Engine Room 1 or 3	42	Aft Main Director
	Engine Room 1 or 3	43	Torpedo 1 or 2
	Engine Room 1 or 3	44-45	Catapult, Aircraft
	Engine Room 2 or 4	46	Catapult, Aircraft
	Engine Room 2 or 4	51-53	Void
	Main Magazine C	54-56	Main X
	Fuel Oil 3, Propshaft 1 or 2)	61-62	Void
	Fuel Oil 4, Propshaft 3 or 4)	63-64	Void
	Steering	65	Steering
	Void	66	Void

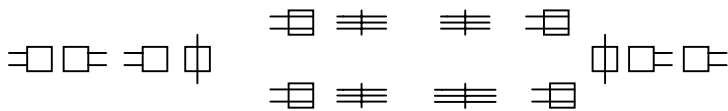
## Internal Diagram and Torpedo Hits

FO1 3FP	PM A 2FP	PM B 2FP	FO2 4FP	BR1 B1 B2 4FP	BR3 B3 B5	4FP B5	BR5 B7 B9	4FP B9	ER1 E1 6FP	ER3 E3 6FP	PM X 2FP	FO3 2FP	FO4 2FP	ST 1FP	V 1FP
				BR2 B4 B6	4FP B4 B6	BR4 B8 B10	4FP B8 B10	ER2 E2 6FP	ER4 E4 6FP						

# Mogami

<u>Navy</u>	Imperial Japanese Navy			<u>Date</u>	1940, as reconstructed				
<u>Class</u>	Heavy cruiser								
<u>Surface Armament</u>				<u>Ranges</u>			<u>Directors</u>		
Main Battery:	8 inch guns in 5 twin turrets			32 inches			Fore and aft		
Secondary Battery:	5 inch guns in 4 twin mounts			15 inches			Port and starboard		
Torpedoes:	24 inch torpedoes in 4 triple mounts			22 inches at 6.00"			Port and starboard		
	6 reloads			35 inches at 5.00"					
Maximum Value:	9			44 inches at 4.50"					
<u>Gun:</u>	5"	10"	15"	20"	25"	30"	32"	Power	Relia
8 inch twin	A/10	8/9	6/7	4/5	3/0	2/0	1/0	6	B
5 inch twin	A/12	8/8	2/4	1/0				4	B
<u>Speed</u>	4.25"	10 boilers	4 engines	<u>Torpedo Hits</u>		17.7"-18": ±1	20.5"-22.5": ±2	24": ±3	
<u>Flotation</u>	Total: 62	DIW: 31	Sinking: 42	<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54				

## Armament Arrangement



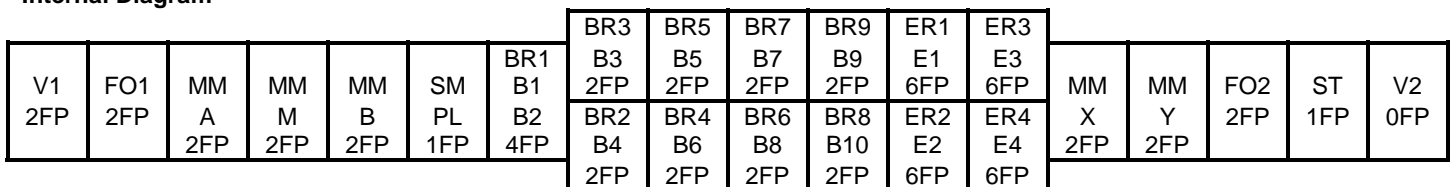
## Notes

- Class included Mogami and Mikuma.

## Hits

Void 1	11-15	Void 1	
Fuel Oil 1	13	Officers Quarters	
Main Magazine A	16-21	Main A	
Main Magazine B	22-23	Main M	
Main Magazine M	24-25	Main B	
Secondary Magazine/Plot	26	AAMGs	
Boiler Room 1	31	Bridge, Forward Main Director	
Boiler Room 2	32	Port of Starboard Secondary Director, Bridge	
Boiler Room 3	33	Funnel, Torpedo Director	
Boiler Room 4 or 5	34	Secondary 1 or 2, Searchlight 1 or 2, Funnel	
Boiler Room 6 or 7	35	AAMGs	
Boiler Room 6 or 7	36	Funnel	
Engine Room 1 or 2	41	Secondary 3, Searchlight 3 or 4, AAMGs	
Engine Room 1 or 2	42	Torpedo 1 or 2	
Engine Room 1 or 2	43	Aft Main Director, Port or Starboard Catapult, Aircraft	
Engine Room 1 or 2	44	Port or Starboard Catapult, Aircraft	
Engine Room 3 or 4	45	Port or Starboard Catapult, Aircraft, Torpedo 3 or 4	
Engine Room 3 or 4	46	Aircraft	
Engine Room 3 or 4	51	Aircraft	
Main Magazine X	52-53	Main X	
Main Magazine Y	54-55	Main Y	
Fuel Oil 2	56-62	Crew Berths	
Fuel Oil 2, Propshaft 1 or 2	63	Crew Berths	
Fuel Oil 2, Propshaft 3 or 4	64	Crew Berths	
Steering	65	Steering	
Void 2	66	Void 2	

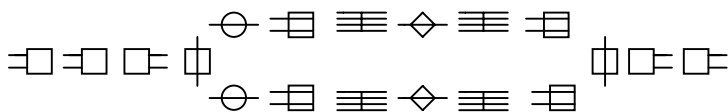
## Internal Diagram



# Myoko

<u>Navy</u>	Imperial Japanese Navy			<u>Date</u>	1940, as reconstructed					
<u>Class</u>	Heavy cruiser									
<u>Surface Armament</u>				<u>Ranges</u>	<u>Directors</u>					
Main Battery:	8 inch guns in 5 twin turrets			32 inches	Fore and aft					
Secondary Battery:	5 inch guns in 4 twin mounts			15 inches	Port and starboard					
Torpedoes:	24 inch torpedoes in 4 quadruple mounts			22 inches at 6.00"	Port and starboard					
	8 reloads			35 inches at 5.00"						
Maximum Value:	9			44 inches at 4.50"						
<u>Gun:</u>	5"	10"	15"	20"	25"	30"	32"	Power	Relia	
8 inch twin	A/10	8/9	6/7	4/5	3/0	2/0	1/0	6	B	
5 inch twin	A/12	8/8	2/4	1/0					4	B
<u>Speed</u>	4.25"	12 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±3			
<u>Flotation</u>	Total: 66	DIW: 33	Sinking: 44	<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54					

## Armament Arrangement



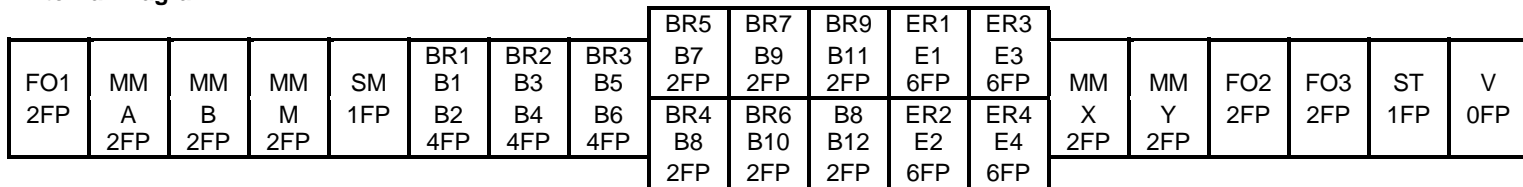
## Notes

- Class included Myoko, Nachi, Haguro and Ashigara.

## Hits

Fuel Oil 1	11-15	Officers Berths
Main Magazine A	16-21	Main A
Main Magazine B	22-23	Main B
Main Magazine M	24-25	Main M
Secondary Magazine	26	Bridge
Boiler Room 1	31	Bridge, Port or Starboard Secondary Director, AAMGs,
Boiler Room 2	32	Forward Main Director, Funnel, Bridge
Boiler Room 3	33	Secondary 1 or 2, Searchlight 1 or 2, Torpedo Director
Boiler Room 4 or 5	34	Funnel
Boiler Room 6 or 7	35	AAMGs
Boiler Room 6 or 7	36	Searchlight 3 or 4
Boiler Room 8 or 9	41	Secondary 3 or 4, Funnel
Boiler Room 8 or 9	42	AAMGs
Engine Room 1 or 2	43	Torpedo 1 or 2, Aft Main Director
Engine Room 1 or 2	44	Port or Starboard Catapult Aircraft
Engine Room 1 or 2	45	Port or Starboard Catapult, Aircraft
Engine Room 3 or 4	46	Torpedo 3 or 4
Engine Room 3 or 4	51	Aircraft
Main Magazine X	52-53	Main X
Main Magazine Y	54-55	Main Y
Fuel Oil 2	56-62	Crew Berths
Fuel Oil 3, Propshaft 1 or 2	63	Crew Berths
Fuel Oil 3, Propshaft 3 or 4	64	Crew Berths
Steering	65	Steering
Aft Void	66	Aft Void

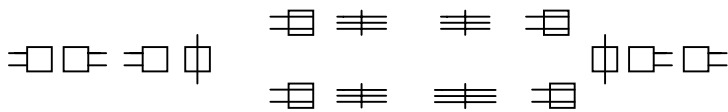
## Internal Diagram



# Suzuya

<u>Navy</u>	Imperial Japanese Navy				<u>Date</u>	1940, as reconstructed				
<u>Class</u>	Heavy cruiser									
<u>Surface Armament</u>					<u>Ranges</u>	<u>Directors</u>				
Main Battery:	8 inch guns in 5 twin turrets				32 inches	Fore and aft				
Secondary Battery:	5 inch guns in 4 twin mounts				15 inches	Port and starboard				
Torpedoes:	24 inch torpedoes in 4 triple mounts				22 inches at 6.00"	Port and starboard				
	6 reloads				35 inches at 5.00"					
Maximum Value:	9				44 inches at 4.50"					
<u>Gun:</u>	5"	10"	15"	20"	25"	30"	32"	Power	Relia	
8 inch twin	A/10	8/9	6/7	4/5	3/0	2/0	1/0	6	B	
5 inch twin	A/12	8/8	2/4	1/0				4	B	
<u>Speed</u>	4.25"	8 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±3			
<u>Flotation</u>	Total: 62	DIW: 31	Sinking: 42	<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54					

## Armament Arrangement



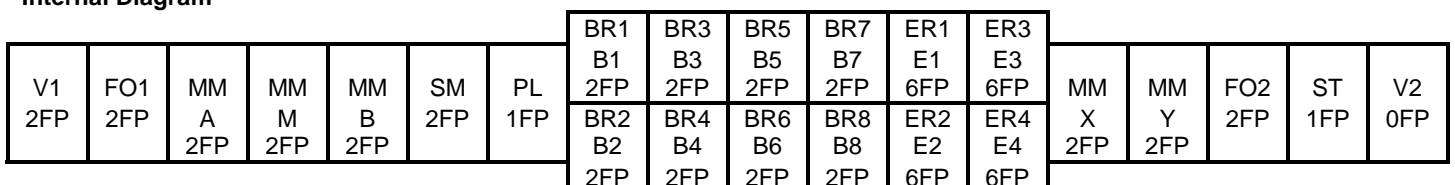
## Notes

- Class included Suzuya and Kumano.

## Hits

	Void 1	11-15	Void 1
	Fuel Oil 1	13	Officers Quarters
	Main Magazine A	16-21	Main A
	Main Magazine B	22-23	Main M
	Main Magazine M	24-25	Main B
	Secondary Magazine	26	AAMGs
	Plot	31	Bridge, Forward Main Director
	Boiler Room 1 or 2	32	Port of Starboard Secondary Director, Bridge
	Boiler Room 3 or 4	33	Funnel, Torpedo Director
	Boiler Room 3 or 4	34	Secondary 1 or 2, Searchlight 1 or 2, Funnel
	Boiler Room 5 or 6	35	AAMGs
	Boiler Room 7 or 8	36	Funnel
	Engine Room 1 or 2	41	Secondary 3, Searchlight 3 or 4, AAMGs
	Engine Room 1 or 2	42	Torpedo 1 or 2
	Engine Room 1 or 2	43	Aft Main Director, Port or Starboard Catapult, Aircraft
	Engine Room 1 or 2	44	Port or Starboard Catapult, Aircraft
	Engine Room 3 or 4	45	Port or Starboard Catapult, Aircraft, Torpedo 3 or 4
	Engine Room 3 or 4	46	Aircraft
	Engine Room 3 or 4	51	Aircraft
	Main Magazine X	52-53	Main X
	Main Magazine Y	54-55	Main Y
	Fuel Oil 2	56-62	Crew Berths
	Fuel Oil 2, Propshaft 1 or 2	63	Crew Berths
	Fuel Oil 2, Propshaft 3 or 4	64	Crew Berths
	Steering	65	Steering
	Void 2	66	Void 2

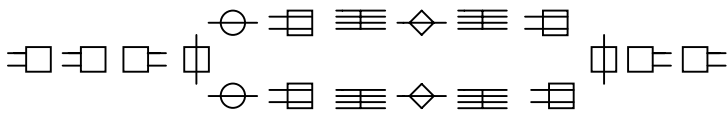
## Internal Diagram



# Takao/Atago

<u>Navy</u>	Imperial Japanese Navy				<u>Date</u>	1942, as reconstructed				
<u>Class</u>	Heavy cruiser									
<u>Surface Armament</u>					<u>Ranges</u>	<u>Directors</u>				
Main Battery:	8 inch guns in 5 twin turrets				32 inches	Fore and aft				
Secondary Battery:	5 inch guns in 4 twin mounts				15 inches	Port and starboard				
Torpedoes:	24 inch torpedoes in 4 quadruple mounts				22 inches at 6.00"	Port and starboard				
	8 reloads				35 inches at 5.00"					
Maximum Value:	9				44 inches at 4.50"					
<u>Gun:</u>	5"	10"	15"	20"	25"	30"	32"	Power	Relia	
8 inch twin	A/10	8/9	6/7	4/5	3/0	2/0	1/0	6	B	
5 inch twin	A/12	8/8	2/4	1/0				4	B	
<u>Speed</u>	4.25"	12 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±3			
<u>Flotation</u>	Total: 66	DIW: 33	Sinking: 44	<u>Bulge</u>	-1 to torpedo hits in way of locations 21-54					

## Armament Arrangement



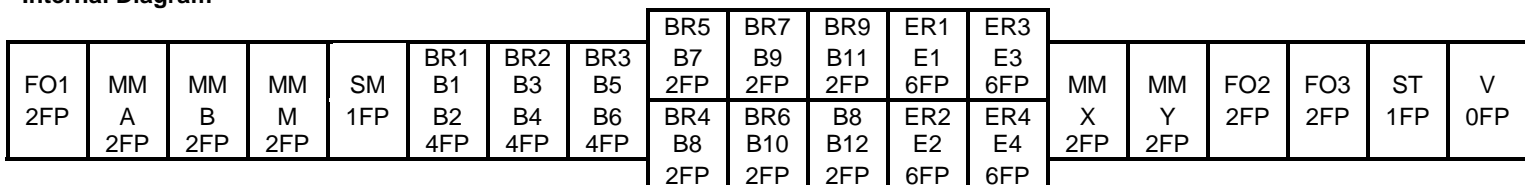
## Notes

- Takao had Chokai's secondary battery until April 1942, Atago until May 1942: 4.7 inch guns in 4 single mounts, range 16 inches (A/9, 8/5, 2/2, 1/-2, Power 4, Reliability B).

## Hits

	Fuel Oil	11-15	Officers Berths
	Main Magazine A	16-21	Main A
	Main Magazine B	22-23	Main B
	Main Magazine M	24-25	Main M
	Secondary Magazine	26	Officers Berths
	Boiler Room 1	31	Bridge, AAMGs
	Boiler Room 2	32	Forward Main Director, Funnel, Bridge
	Boiler Room 3	33	Port or Starboard Secondary Director, Torpedo 1 or 2, Torpedo Director
	Boiler Room 4 or 5	34	Secondary 1 or 2, AAMGs
	Boiler Room 6 or 7	35	Port or Starboard Reloads, Searchlight 1 or 2
	Boiler Room 6 or 7	36	Void
	Boiler Room 8 or 9	41	AAMGs, Torpedo 3 or 4
	Boiler Room 8 or 9	42	Aft Main Director, Searchlight 3 or 4, Secondary 3 or 4
	Engine Room 1 or 2	43-45	Port or Starboard Catapult, Aircraft
	Engine Room 3 or 4	46-51	Aircraft
	Main Magazine X	52-53	Main X
	Main Magazine Y	54-55	Main Y
	Fuel Oil 2	56-62	Crew Berths
	Fuel Oil 3, Propshaft 1 or 2	63	Crew Berths
	Fuel Oil 3, Propshaft 3 or 4	64	Crew Berths
	Steering	65	Steering
	Aft Void	66	Aft Void

## Internal Diagram

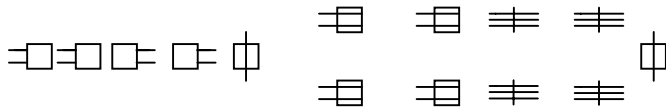




# Tone

<u>Navy Class</u>	Imperial Japanese Navy Heavy cruiser	<u>Date</u>	1939		
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>		
Main Battery:	8 inch guns in 4 twin turrets	32 inches	Fore and aft		
Secondary Battery:	5 inch guns in 4 twin mounts	15 inches	Port and starboard		
Torpedoes:	24 inch torpedoes in 4 triple mounts	22 inches at 6.00"	Port and starboard		
	12 reloads	35 inches at 5.00"			
Maximum Value:	9	44 inches at 4.50"			
<u>Gun:</u>	5"      10"      15"      20"      25"      30"      32"	<u>Power</u>	<u>Relia</u>		
8 inch twin	A/10      8/9      6/7      4/5      3/0      2/0      1/0	6	B		
5 inch twin	A/12      8/8      2/4      1/0	4	B		
<u>Speed</u>	4.25"	8 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1      20.5"-22.5": ±2      24": ±3
<u>Flotation</u>	Total: 61	DIW: 31	Sinking: 40		

## Armament Arrangement



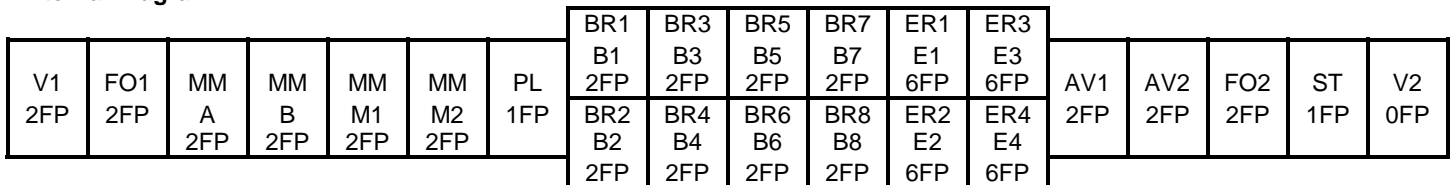
## Notes

- Class included Tone and Chikuma.

## Hits

	Void 1	11-15	Void 1
	Fuel Oil 1	13	Officers Quarters
	Main Magazine A	16-21	Main A
	Main Magazine B	22-23	Main B
	Main Magazine M1	24	Main M1
	Main Magazine M2	25-26	Main M2
	Plot	31	AAMGS
	Boiler Room 1 or 2	32	Bridge, Forward Main Director, Port of Starboard Secondary Director
	Boiler Room 3 or 4	33	Funnel
	Boiler Room 3 or 4	34	Secondary 1 or 2, Searchlight 1 or 2, Funnel
	Boiler Room 5 or 6	35	Funnel
	Boiler Room 7 or 8	36	Secondary 3 or 4, Searchlight 3, AAMGs
	Engine Room 1 or 2	41	Aft Main Director
	Engine Room 1 or 2	42	Torpedo 1 or 2, Torpedo Director, AAMGs
	Engine Room 1 or 2	43-44	Port or Starboard Catapult, Aircraft
	Engine Room 3 or 4	45	Port or Starboard Catapult, Aircraft, Torpedo 3 or 4
	Engine Room 3 or 4	46-51	Aircraft
	Aviation Gas 1	52-54	Aircraft
	Aviation Gas 2	55-62	Aircraft
	Fuel Oil 2, Propshaft 1 or 2	63	Aircraft
	Fuel Oil 2, Propshaft 3 or 4	64	Aircraft
	Steering	65	Steering
	Void 2	66	Void 2

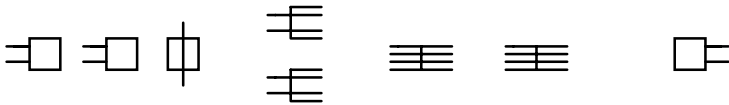
## Internal Diagram



# Agano

<u>Navy Class</u>	Imperial Japanese Navy Light cruiser		<u>Date</u>	1942				
<u>Surface Armament</u>			<u>Ranges</u>	<u>Directors</u>				
Main Battery:	6.1 inch guns in 3 twin turrets		26 inches	Fore				
Torpedoes:	24 inch torpedoes in 2 quadruple mounts		22 inches at 6.00"	Aft				
Maximum Value:	9		35 inches at 5.00"					
			44 inches at 4.50"					
<u>Gun:</u>	5"	10"	15"	20"	25"	26"	Power	Relia
6.1 inch twin	A/12	8/10	3/8	2/6	1/3	1/-2	5	B
<u>Speed</u>	4.25"	6 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±4	
<u>Flotation</u>	Total: 66	DIW: 33	Sinking: 44					

## Armament Arrangement



## Notes

- Class included Agano, Noshiro, Sakawa and Yahagi.
- AA guns cannot engage surface targets. They count as AAMGs.

## HLts

Fuel Oil 1	11-15	Void
Main Magazine A	16-21	Main A
Main Magazine B	22-23	Main B
Fuel Oil 2	24-26	AAMGs
Fuel Oil 3	31	Bridge, Torpedo Director
Fuel Oil 3, Plotting Room	32	Forward Main Director, Bridge
Boiler Room 1	33	Secondary 1 or 2, Bridge
Boiler Room 1	34	Searchlight 1 or 2, Secondary Director 1 or 2
Boiler Room 1	35	Funnel
Boiler Room 2 or 3	36	AAMGs
Boiler Room 2 or 3	41-42	Torpedo A
Boiler Room 4 or 5	43-44	Aircraft
Boiler Room 4 or 5	45	Catapult
Engine Room 1 or 2	46	Torpedo B
Engine Room 1 or 2	51	Aircraft, Catapult
Engine Room 3	52	Aircraft, Catapult
Engine Room 3	53	AAMGs
Engine Room 3	54	AAMGs
Main Magazine Y	55-56	Main Y
Fuel Oil 4	61	Void
Fuel Oil 4	62	AAMGs
Fuel Oil 5, Propshaft 1 or 2	63	Void
Fuel Oil 5, Propshaft 3 or 4	64	Void
Steering	65	Steering
Void	66	Void

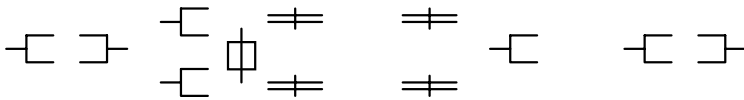
## Internal Diagram

FO1	FM	FM	FO2	FO3	BR1	BR3	BR5	ER1	ER3	AM	FO4	FO5	ST	V
1FP	A	B	2FP	2FP	B1	4FP	4FP	6FP	E3,4	Y	2FP	2FP	1VP	1VP
	2FP	2FP			B2	BR2	BR3	ER2	11	2FP				
					9FP	4FP	4FP	6FP	FP					

# Nagara/Kuma

<u>Navy Class</u>	Imperial Japanese Navy Light cruiser	<u>Date</u>	1942, as modified				
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>				
Main Battery:	5.5 inch guns in 7 single mounts	20 inches	Fore				
Torpedoes:	24 inch torpedoes in 4 twin mounts no reloads	22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"	Port and starboard				
<u>Gun:</u> 5.5 inch single	5" A/10	10" 8/8	15" 3/5	20" 2/3	Power 5	Relia B	
<u>Speed</u>	4.00"	12 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±4
<u>Flotation</u>	Total: 53	DIW: 27	Sinking: 36				

## Armament Arrangement



## Notes

- Nagara class included Abukuma, Isuzu, Kinu, Nagara, Natori and Yura.
- Kuma class included Kiso, Kitakami, Kuma, Oi and Tama.
- In 1943, many in both classes had their M2 guns replaced with AAMGs, while some also replaced their X guns with a twin 5" mount. 5 inch twin: A/12, 8/8, 2/4, range 15 inches, power 4, reliability B.
- Abukuma had 2 quadruple 24inch torpedo tubes aft vice four twin mounts.

## Hits

	Void 1	11-12	Void
	Forward Magazine	13-14	Main A
	Forward Magazine	15-16	Main M1
	Plot	21	AAMGs
	Fuel Oil 1	22	Bridge
	Fuel Oil 1	23	Bridge, Main Director, Main 1 or 2
	Fuel Oil 1	24	Main 1 or 2, Searchlight 1 or 2
	Boiler Room 1	25	Torpedo 1 or 2
	Boiler Room 2	26	Torpedo 1 or 2
	Boiler Room 2	31	Funnel, AAMGs
	Boiler Room 3	32	Funnel, AAMGs
	Boiler Room 3	33	AAMGs
	Boiler Room 3	34-35	Funnel
	Boiler Room 4	36	Torpedo Director
	Boiler Room 4	41	Funnel
	Engine Room 1	42	Funnel
	Engine Room 1	43	Torpedo 3 or 4
	Engine Room 1	44	Torpedo 3 or 4
	Engine Room 2	45	Main M2
	Engine Room 2	46-51	Aircraft, Catapult
	Aft Main Magazine	52-53	Aircraft, Catapult
	Aft Main Magazine	54-55	Main M3
	Void 2	56-61	Main X
	Void 2	62	Void
	Void 2, Propshaft 1 or 2	63	Void
	Void 2, Propshaft 3 or 4	64	Void
	Steering	65	Steering
	Void	66	Void

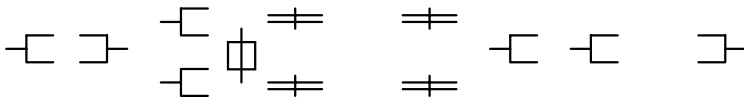
## Internal Diagram

V1	FM	PL	FO1	BR1	BR2	BR3	BR4	ER1	ER2	AM	V2	ST	V3
2FP	4FP	1FP	4FP	B1 2FP	B2,3 4FP	B4,5, 6,7 8FP	B8,9 4FP	E1,2 8FP	E1,2 8FP	4FP	2FP	1FP	1FP

# Sendai

<u>Navy Class</u>	Imperial Japanese Navy Light cruiser			<u>Date</u>	1942, as modified		
<u>Surface Armament</u>	Main Battery: 5.5 inch guns in 7 single mounts Torpedoes: 24 inch torpedoes in 4 twin mounts no reloads			<u>Ranges</u>	20 inches 22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"		
				<u>Directors</u>	Fore Port and starboard		
<u>Gun:</u> 5.5 inch single	5" A/10	10" 8/8	15" 3/5	20" 2/3	Power 5	Relia B	
<u>Speed</u>	4.00"	10 boilers	4 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±2	24": ±4
<u>Flotation</u>	Total: 55	DIW: 28	Sinking: 36				

## Armament Arrangement



## Notes

- Sendai class included Sendai, Jintsu and Naka.
- In June 1943, Sendai traded her M2 gun for AAMGs.
- In April 1943, Naka traded her M2 gun for AAMGs and a twin 5" mount. 5 inch twin: A/12, 8/8, 2/4, range 15 inches, power 4, reliability B.
- Naka and Jintsu had 2 quadruple torpedo mounts aft and none forward.

## Hits

Void 1	11-12	Void
Forward Magazine	13-14	Main A
Forward Magazine	15-16	Main M1
Plot	21	AAMGs
Fuel Oil 1	22	Bridge
Fuel Oil 1	23	Bridge, Main Director, Main 1 or 2
Fuel Oil 1	24	Main 1 or 2, Searchlight 1 or 2
Boiler Room 1	25	Void
Boiler Room 2	26	Funnel
Boiler Room 3	31-32	Torpedo 1 or 2
Boiler Room 3	33	Funnel, AAMGs
Boiler Room 3	34	AAMGs
Boiler Room 3	35-36	Funnel
Boiler Room 4	41	Torpedo Director
Boiler Room 4	42	Funnel
Boiler Room 4	43	Torpedo 3 or 4
Engine Room 1	44	Torpedo 3 or 4
Engine Room 1	45	Main M2
Engine Room 2	46	Main M2
Engine Room 2	51	Searchlight 3
Aft Main Magazine	52-53	Main M3
Aft Main Magazine	54-55	Aircraft, Catapult
Void 2	56-61	Aircraft, Catapult
Void 2	62	Main X
Void 2, Propshaft 1 or 2	63	Main X
Void 2, Propshaft 3 or 4	64	Void
Steering	65	Steering
Void	66	Void

## Internal Diagram

V1 2FP	FM 4FP	PL 1FP	FO1 4FP	BR1 B1 2FP	BR2 B2 2FP	BR3 B3,4 5,6 8FP	BR4 B8,9 9,10 8FP	ER1 E1,2 8FP	ER2 E1,2 8FP	AM 4FP	V2 2FP	ST 1FP	V3 1FP
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# Tenryu

<u>Navy</u>	Imperial Japanese Navy	<u>Date</u>	1940
<u>Class</u>	Light cruiser		
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>
Main Battery:	5.5 inch guns in 4 single mounts	20 inches	Fore
Torpedoes:	21 inch torpedoes in 2 triple mounts	8 inches at 4.25"	Port and starboard
		16 inches at 3.75"	
<u>Gun:</u>	5"      10"      15"      20"	<u>Power</u>	<u>Relia</u>
5.5 inch single	A/10      8/8      3/5      2/3	5	B
<u>Speed</u>	4.00"      8 boilers      3 engines	<u>Torpedo Hits</u>	17.7"-18": ±1      20.5"-22.5": ±2      24": ±4
<u>Flotation</u>	Total: 44      DIW: 22      Sinking: 30		

## Armament Arrangement



## Notes

Class included Tenryu and Tatsuta.

## Hits

	Void 1	11-13	Void
	Forward Magazine	14-15	Main A
	Forward Magazine	16	Bridge
	Forward Magazine	21	Bridge, Main Director
	Fuel Oil 1	22-23	Main 1
	Boiler Room 1	24	Torpedo A
	Boiler Room 2	25-26	Torpedo A
	Boiler Room 2	31-32	Funnel
	Boiler Room 3	33	Void
	Boiler Room 3	34-35	Funnel
	Boiler Room 3	36	Void
	Engine Room 1	41-42	Funnel
	Engine Room 1	43	Void
	Engine Room 1	44	Torpedo B
	Engine Room 2	45-46	Torpedo B
	Engine Room 2	51	Torpedo Director
	Engine Room 2	52	Main 2
	Aft Magazine	53	Main 2
	Aft Magazine	54	Searchlight
	Aft Magazine	55-56	Main X
	Fuel Oil 2	61-62	AAMGs
	Fuel Oil 2, Propshaft 1 or 2	63	AAMGs
	Void 2, Propshaft 3	64	Void
	Steering	65-66	Steering

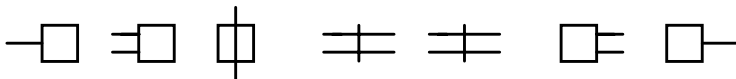
## Internal Diagram

V1	FM	FO1	BR1	BR2	BR3	ER1	ER2	AM	FO2	V2	ST
2FP	2FP	4FP	B1	B2,3	B5,6	E1,2	E3	2FP	2FP	2FP	1FP
			2FP	4	7,8	7FP	6FP				
				6FP	8FP						

# Yubari

<u>Navy</u>	Imperial Japanese Navy	<u>Date</u>	1942, as modified		
<u>Class</u>	Light cruiser				
<u>Surface Armament</u>		<u>Ranges</u>	<u>Directors</u>		
Main Battery:	5.5 inch guns in 2 single and 2 twin mounts	20 inches	Fore		
Torpedoes:	24 inch torpedoes in 2 twin mounts	22 inches at 6.00" 35 inches at 5.00" 44 inches at 4.50"	Aft		
<u>Gun:</u>	5"            10"            15"            20"	Power	Relia		
5.5 inch single	A/10          8/8            3/5            2/3	5	B		
5.5 inch twin	A/12          8/10          3/7            2/5	5	B		
<u>Speed</u>	4.00"          7 boilers          3 engines	<u>Torpedo Hits</u>	17.7"-18": ±1	20.5"-22.5": ±3	24": ±5
<u>Flotation</u>	Total: 42	DIW: 21	Sinking: 28		

## Armament Arrangement



### Notes

- Experimental design mounting a heavy armament on a light displacement.

## Hits

	Fuel Oil 1	11-14	Void
	Forward Main Magazine	15-16	Main A
	Forward Main Magazine	21-22	Main B
	Fuel Oil 2	23	Bridge, Forward Searchlight
	Boiler Room 1	24	Bridge, Main Director
	Boiler Room 1	25	Funnel
	Boiler Room 2	26-32	Funnel
	Boiler Room 2	33	Searchlight
	Boiler Room 2	34-36	Torpedo A
	Boiler Room 3	41-42	AAMGs
	Boiler Room 3	43-45	Torpedo B
	Engine Room 1	46	Torpedo Director
	Engine Room 1	51	Void
	Engine Room 2	52-53	Void
	Aft Main Magazine	54-55	Main X
	Aft Main Magazine	55-56	Main Y
	Fuel Oil 2, Propshaft 1 or 2	61-62	Void
	Fuel Oil 2, Propshaft 3	63-64	Void
	Steering	65	Steering
	Void	66	Void

## Internal Diagram

V1 1FP	FM 3FP	FO 4FP	BR1 B1 2FP	BR2 B2,3 B4,5 6FP	BR3 B5 B6 4FP	ER1 E1 E2 8FP	ER2 E3 8FP	AM 3FP	FO2 2FP	ST 1FP	V 0FP
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